LIMITED PHASE II INVESTIGATION

Former Gasoline Filling Station
12500 Euclid Avenue
East Cleveland, Cuyahoga County, Ohio

February 10, 2022

PREPARED FOR:
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1.0 INTRODUCTION

Partners was contracted by the Cuyahoga County Land Reutilization Corp. (CCLRC, Client) to conduct a Limited Phase II Investigation (Phase II) at the Former Gasoline Filling Station Site located at 12500 Euclid Avenue in the City of East Cleveland, Cuyahoga County, Ohio (Property).

The Property consists of an L-shaped parcel measuring 0.36-acres located at the northeast corner of Euclid Avenue and Lakeview Road. The Property is currently vacant and was most recently occupied by AutoMax used car sales. The Property was developed for residential and commercial purposes prior to 1913. From 1926 through 1941, Economy Buick occupied the north portion of the Property and adjoining parcel to the north. The buildings were razed, and by 1967, the existing building had been constructed for use as a gasoline service station. The Property operated as a gasoline station from 1967 to 1973 and has been used for auto sales and service intermittently from 1974 to the present. The Property is comprised of one (1) parcel, designated as Permanent Parcel Number (PPN) 67213009, which is owned by 12500 Euclid Avenue LLC. The assessment was conducted in general accordance with the Ohio Environmental Protection Agency (EPA) Voluntary Action Program (VAP) protocol but was not completed as if the Property was on the VAP track.

2.0 PREVIOUS INVESTIGATIONS

Partners prepared a Phase I ESA report titled *Phase I Environmental Site Assessment, Former Gasoline Filling Station, 12500 Euclid Avenue, East Cleveland Ohio,* dated October 13, 2021. The Phase I ESA revealed the following RECs in connection with the Property:

- **Former Use as a Gasoline Filling Station and Auto Repair:** The Property operated as a gasoline station from 1967 to 1973 and has been used for auto sales and service intermittently from 1974 to the present. Information from the East Cleveland Fire Department indicates that one (1) 6,000-gallon gasoline underground storage tank (UST), one (1) 3,000-gallon gasoline UST, and one (1) 1,000-gallon used oil UST were located at the Property. Records indicate that in 1973 filling station operations ceased and the USTs were removed. In 2001, hydraulic lifts were removed from within the building. Soil samples were obtained from beneath the lifts at a depth of 10 to 11 feet below the ground surface (bgs) and were analyzed for total petroleum hydrocarbons (TPH) by USEPA Method 418.1, which does not differentiate light (C6-C12), medium (C10-C20), and heavy (C20-C34) petroleum fractions. TPH concentrations were below applicable comparison standards. However, the potential exists that the hydraulic oil used in the lifts contained polychlorinated biphenyls (PCBs). The soil samples collected were not analyzed for PCBs.

- **Known Soil Gas Contamination at North Adjoining Site:** In 2019, Partners conducted subsurface investigations at the north adjoining site due to the past uses including dry cleaning, printing, and auto repair. As part of that work, Partners advanced soil borings, groundwater monitoring wells, sub-slab vapor points, and soil gas points. Soil gas testing at the southern boundary of the adjoining site showed an elevated concentration of trichloroethene (TCE), adjacent to the Property.

3.0 LIMITED PHASE II INVESTIGATION ACTIVITIES

The findings of the Phase I ESA were considered while preparing the Limited Phase II scope of work. It is Partners' understanding that the Property and the existing building will be renovated for commercial use. Therefore, future receptor pathways at the Property may include commercial workers, and construction/excavation workers.

3.1 General Scope

The Limited Phase II activities included soil and groundwater sampling and laboratory analysis. Partners advanced eight (8) soil borings (SB-01 through SB-06, MW-01 and MW-02). Two (2) borings were

completed as temporary groundwater monitoring wells (MW-01 and MW-02). Additionally, a ground penetrating radar (GPR) survey was completed in the area of the former mapped USTs.

Prior to initiating field activities, Partners prepared a *Sampling and Analysis Plan* (SAP) dated October 13, 2021. The SAP was submitted to the United States Environmental Protection Agency (USEPA) and the Client for review and approval. The USEPA approved the SAP without revision in correspondence dated October 14, 2021. The Limited Phase II Investigation was conducted in accordance with the SAP and the USEPA approved Quality Assurance Project Plan (QAPP) prepared by Partners.

3.2 Methods of Assessment

3.2.1 Ground Penetrating Radar (GPR) Survey

On October 26, 2021, Partners met with the GPR contractor (Blood Hound, LLC) to check for the presence of USTs. The area of the USTs, located in the northern portion of the Property as indicated in Fire Department records, was surveyed on an approximate five (5)-foot grid line spacing. Information from Bloodhound is attached in **Appendix A**.

3.2.2 Soil Boring, Sampling, Field Screening and Analysis

On October 26, 2021, soil borings were advanced using a truck-mounted, direct push technology (Geoprobe™) sampling system. The borings were sampled continuously from the ground surface to depths of approximately 12 feet below ground surface (bgs). The Geoprobe™ drives a two (2)-inch outside diameter (OD), stainless steel tube containing a new disposable acetate liner into the subsurface to obtain soil samples. The soil is forced into the liner at continuous four (4)-foot intervals and is then retrieved to the surface. Each four (4)-foot soil sample was further divided into two (2) foot sample intervals, visually observed, sampled, logged, and classified according to the Unified Soil Classification System (USCS) by a member of Partners' field staff. The boring locations are depicted on **Figure 2** and soil boring logs are included in **Appendix B**.

Soil samples were divided into two (2) portions. One (1) portion was placed in new two (2) or four (4)-ounce, pre-cleaned glass jars with Teflon® lined lids, and the second portion was placed in a new re-sealable plastic bag for field screening purposes. Soil samples for volatile organic compounds (VOC) analysis were collected in the field via Method 5035 using TerraCore™ style samplers and a 40 milliliter (ml) amber glass vial containing methanol (one [1] each). Samples placed in the glass jars were labeled and placed in a cooler containing ice, pending submission to an Ohio EPA VAP certified laboratory for chemical analysis. New disposable nitrile gloves were worn and changed between each sample to prevent possible cross-contamination. The sampling equipment was decontaminated between sampling events with an Alconox® detergent rinse.

Soil samples were field screened for the presence of organic vapors using a MiniRAE 3000 Photoionization Detector (PID), manufactured by Honeywell RAE Systems. The PID was calibrated prior to field activities using a known concentration of a gas standard in accordance with the manufacturers' specifications. Soil sample PID readings are included on the soil boring logs in **Appendix B**.

Soil borings were properly abandoned at the completion of field activities by filling each to the surface with excess soil cuttings and hydrated bentonite chips. The soil borings were finished at the surface with like surfacing materials (e.g., concrete/asphalt patch).

Select soil samples were submitted for laboratory analysis based on a combination of historical information, field observations (visual or odor), PID screening results, the most likely depth of a release, and/or the potential point of compliance. Based on the conditions under assessment, selected soil samples were analyzed for the following parameters:

- Volatile Organic Compounds (VOCs) by USEPA Method 8260 (16 samples)
- Polynuclear Aromatic Hydrocarbons (PAHs) by USEPA Method 8270 (5 samples)
- Total Petroleum Hydrocarbons (TPH C_6-C_{34}) by USEPA Method 8015 (16 samples)
- Polychlorinated biphenyls (PCBs) by USEPA Method 8081 (5 samples).

Soil samples were labeled, placed in an iced cooler, and submitted for analysis under appropriate chain-of-custody control to Pace Analytical, a VAP Certified Laboratory (CL0069), located in Mt. Juliet, Tennessee. The laboratory analytical report is included in **Appendix C**.

3.2.3 Temporary Groundwater Monitoring Well Installation, Sampling, and Analysis

Two (2) of the soil borings were completed as temporary groundwater monitoring wells (MW-01 and MW-02). The monitoring wells were installed to a depth of approximately 12 feet bgs using the direct push tooling and an expendable point. Groundwater monitoring well MW-01 was installed in the northern portion of the Property and MW-02 was installed in the north-central portion of the Property in the area of the former dispensers. Temporary monitor well locations are depicted on **Figure 2**.

The monitoring wells were constructed with one (1)-inch inside diameter (ID) polyvinyl chloride (PVC) screen and riser pipe. The screen (10 slot) was five (5)-feet long and positioned to span the potential groundwater interface. The annular space was filled with sand to approximately two (2) feet above the screen and then with bentonite to within one (1) foot of the surface.

On October 27, 2020, the wells were measured using a Solinst interface probe to determine depth to groundwater and as a check for the presence of a light non-aqueous phase liquids (LNAPL) and dense non-aqueous phase liquids (DNAPL).

Because to the temporary well construction method, the wells were sampled using manual bailing methods. A dedicated, disposable polyethylene bailer was used at each location to purge the well. During purging, a YSI water quality meter was used to measure the temperature, pH, specific conductivity, turbidity, dissolved oxygen and oxygen-reduction potential (ORP) of the water at approximately 0.5 liter intervals while purging. The wells were purged until three (3) casing volumes were removed or they were purged dry. Samples were collected once purge volumes were reached and/or the monitor wells were allowed to sufficiently recharge. Groundwater Sampling Logs are included in **Appendix D**.

Groundwater samples were collected and submitted for laboratory analyses of the following parameters:

- VOCs by USEPA Method 8260 (two [2] samples)
- PAHs by USEPA Method 8270 (two [2] samples)

Groundwater samples were labeled, placed in an iced cooler, and submitted for analysis under appropriate chain-of-custody control to Pace Analytical, a VAP Certified Laboratory (CL0069), located in Mt. Juliet, Tennessee. The laboratory analytical report is included in **Appendix C**.

Upon completion of groundwater sampling activities, the monitor well casing and screen was pulled from the borehole and sealed with bentonite to the surface. The minimal volume of purged groundwater from each temporary well location was used to hydrate the bentonite.

3.2.4 Investigation Derived Waste

No excess investigation derived wastes were generated during this project.

4.0 POTENTIALLY APPLICABLE COMPARISON STANDARDS

Although the Property is not going through the Ohio EPA Voluntary Action Program (VAP), the program has promulgated standards under state environmental law that establish levels that are considered protective of human health and the environment. These standards were used for evaluation of Property conditions. Partners understands that the planned land use of the Property is likely to be for commercial purposes.

Evaluation of Soil

The VAP Generic Numerical Direct Contact Soil Standards (GDCS) for the Commercial/Industrial Land Use Category and the Construction/Excavation Activities Category (Ohio Administrative Code [OAC] 3745-300-08) were used for evaluation of the results of soil analyses. Constituents for which no GDCS have been derived were compared to the Ohio EPA VAP Chemical Information Database and Applicable Regulatory Standards (CIDARS), Supplemental Criteria. TPH concentrations in soil were evaluated using the TPH Saturation Concentration, coarse grained soils (OAC 3745-300-09(D)(2)(b)).

Evaluation of Groundwater

Results of groundwater sampling was compared to the USEPA Vapor Intrusion Screening Levels (VISL) Target Groundwater Concentrations for commercial land use with a carcinogenic risk of 1E-5, hazard quotient of 1, an attenuation factor (AF) of 0.001, and a groundwater temperature of 11 degrees Celsius in accordance with the Ohio EPA document *Sample Collection and Evaluation of Vapor Intrusion to Indoor Air for Remedial Response, RCRA and VAP.*

As the Property is located within the Cleveland City-Wide Urban Setting Designation (USD) which establishes that groundwater is not and will not likely be used as a drinking water source, the Ohio VAP generic and risk-based Unrestricted Potable Use Standards (UPUS) are not applicable standards for the Property.

5.0 FINDINGS

5.1 Ground Penetrating Radar (GPR Survey)

The results of the GPR survey showed no apparent indications of the presence of USTs within the survey area. The GPR survey identified two (2) linear anomalies in the northern portion of the Property likely to be associated with utilities. Based on the locations of the linear anomalies it is not likely that they are associated with UST piping. The gridded area and anomalies are shown on **Figure 4** and information from Bloodhound is attached in **Appendix A**.

5.2 Subsurface Conditions

The subsurface profile may be generalized as sporadic surficial fill followed by native deposits of sand and then shale. Soil boring logs are included in **Appendix B**.

Fill materials typically consisted of approximately one (1) to 2.75-feet of brown fine sand or sandy clay with some gravel, brick and/or slag fragments as encountered at borings SB-01, SB-03, SB-05 and SB-06. At SB-04, concrete and brick debris were encountered beneath the asphalt surface.

Native soils consisted of brown fine/fine to medium sands to depths ranging from about 10.2 to 12 feet bgs. Brown fine to coarse sand with gravel was encountered at a depth of 11.5 feet at SB-03, and a gray clay seam was encountered at a depth of 8.2 to 8.8 feet at boring MW-01. Gray weathered shale bedrock was encountered at depths ranging from 10.2 to 11.5 feet at SB-02, SB-04, SB-05, SB-06 and MW-02. Shale was not encountered at the remaining boring locations.

Gray-stained fine sand with petroleum odors were encountered at SB-05 (8-10 feet bgs). No petroleum or chemical odors and/or staining were noted in the soil samples at the remaining boring locations. With the exception of SB-05, PID readings were less than 1.5 part per million (ppm). At SB-05, elevated PID readings of 102.5 ppm (6-8 feet) and 308.9 ppm (8-10 feet) were encountered. These elevated readings correlate with the gray staining and petroleum odors present at this location.

Groundwater encounter was apparent during drilling at depths ranging from eight (8) to 9.7 feet bgs. Groundwater was not encountered during drilling at SB-04 and MW-01. After 24 hours, groundwater was present in the temporary monitoring wells at depths of 10.6 feet bgs (MW-01) and 9.7 feet bgs (MW-02). During monitor well purging activities, the temporary wells were bailed dry, and recharge was relatively slow.

6.0 RESULTS OF ANALYTICAL TESTING

6.1 Soil Analytical Results

The results of the soil analytical testing are presented in **Table 1 and Table 2**. The laboratory analytical reports are included in **Appendix C**.

VOCs: Results of analytical testing indicate that 22 VOC analytes were detected in the soil samples at concentrations above laboratory method detection limits (MDLs). All detected VOC concentrations were below the respective GDCS cited for comparison.

PAHs: Results of analytical testing indicate that 17 PAH analytes were detected in the soil samples at concentrations above laboratory MDLs. All detected PAH concentrations were below the respective GDCS cited for comparison.

TPH: All TPH fractions were present in the soil samples below comparison standards.

PCBs: One (1) PCB analyte (PCB 1260) was detected in the soil samples at concentrations above laboratory MDLs. All detected PCB concentrations were below the respective GDCS cited for comparison.

6.2 Groundwater Analytical Results

The results of the groundwater analytical testing are presented in **Table 3**. The laboratory analytical reports are included in **Appendix C**.

VOCs: Results of analytical testing indicate that 11 VOC analytes were detected in the groundwater samples at concentrations above laboratory MDLs. With the exception TCE, all detected VOC concentrations were below the VISL Target Groundwater Concentrations for commercial land use.

The concentrations of TCE in MW-01 (0.101 mg/l) and MW-01 Duplicate (0.0866 mg/l) exceed the VISL standard of 0.0416 mg/l. MW-01 is located at the north Property corner adjacent to the known off-Property soil gas exceedance.

7.0 LIMITATIONS

The analytical results and conclusions presented in this report are based on the completion of eight (8) soil borings and two (2) temporary monitoring wells and limited soil and groundwater testing. Although the results presented above provide a reasonable indication of conditions in the areas evaluated, they may not be indicative of conditions in areas of the Property not evaluated by Partners.

8.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the Limited Phase II Investigation activities and information contained in this report, Partners presents the following summary and conclusions regarding the Property.

Subsurface Profile

The subsurface profile may be generalized as areas of surficial sandy fill underlain by sandy soils and shale bedrock. Groundwater was encountered during drilling at depths between about eight (8) and 10 feet bgs.

Soil Testing

Based on the results of analytical testing, soils have not been impacted by VOCs, PAHs, PCBs, or TPH at concentrations exceeding the GDCS for the Commercial/Industrial Land Use or Construction/Excavation Activities or TPH Saturation Concentrations.

Groundwater Testing

Based on the results of analytical testing, the concentrations of TCE in the groundwater at MW-01 exceed the respective VISL value for commercial use. The presence of TCE in the groundwater on the Property represents a vapor intrusion risk to potential on-Property commercial receptors. MW-01 is located at the north Property corner adjacent to the known off-Property soil gas exceedance.

Recommendations

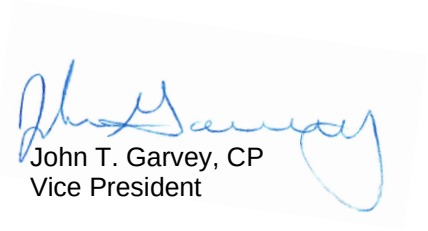
Depending on future development plans for the Property, mitigation of the vapor intrusion risk identified in the northwestern portion of the Property (MW-01) may be necessary through the installation of a vapor barrier or sub-slab depressurization system.

9.0 CLOSING

Thank you for the opportunity to serve your needs. Please call us at (800) 763-1363 if you have any questions or if we can be of any further assistance.

Sincerely,
Partners

Thomas A. Weir
Senior Environmental Scientist



John T. Garvey, CP
Vice President

FIGURES

Image Provided By ESRI Street Map

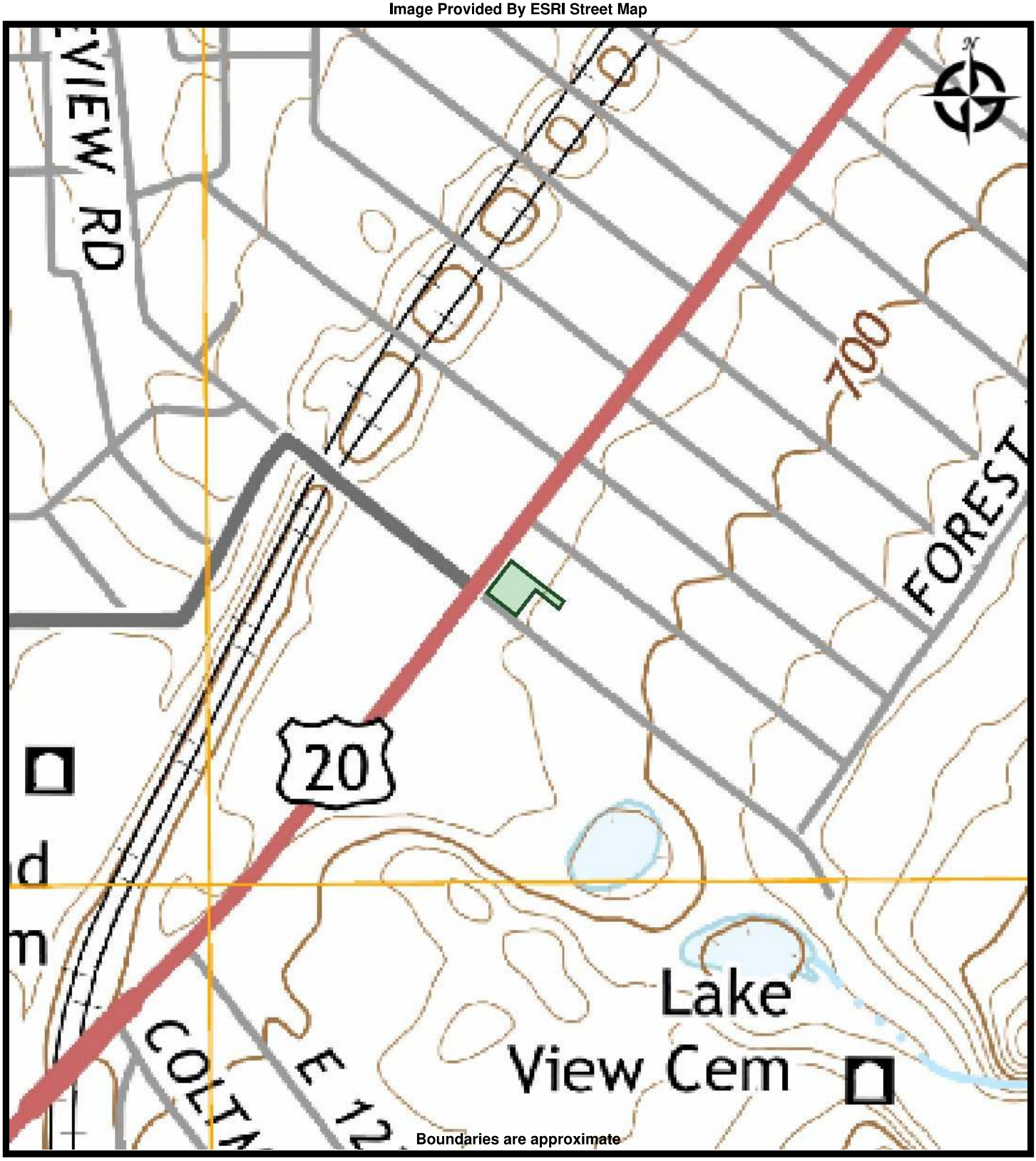


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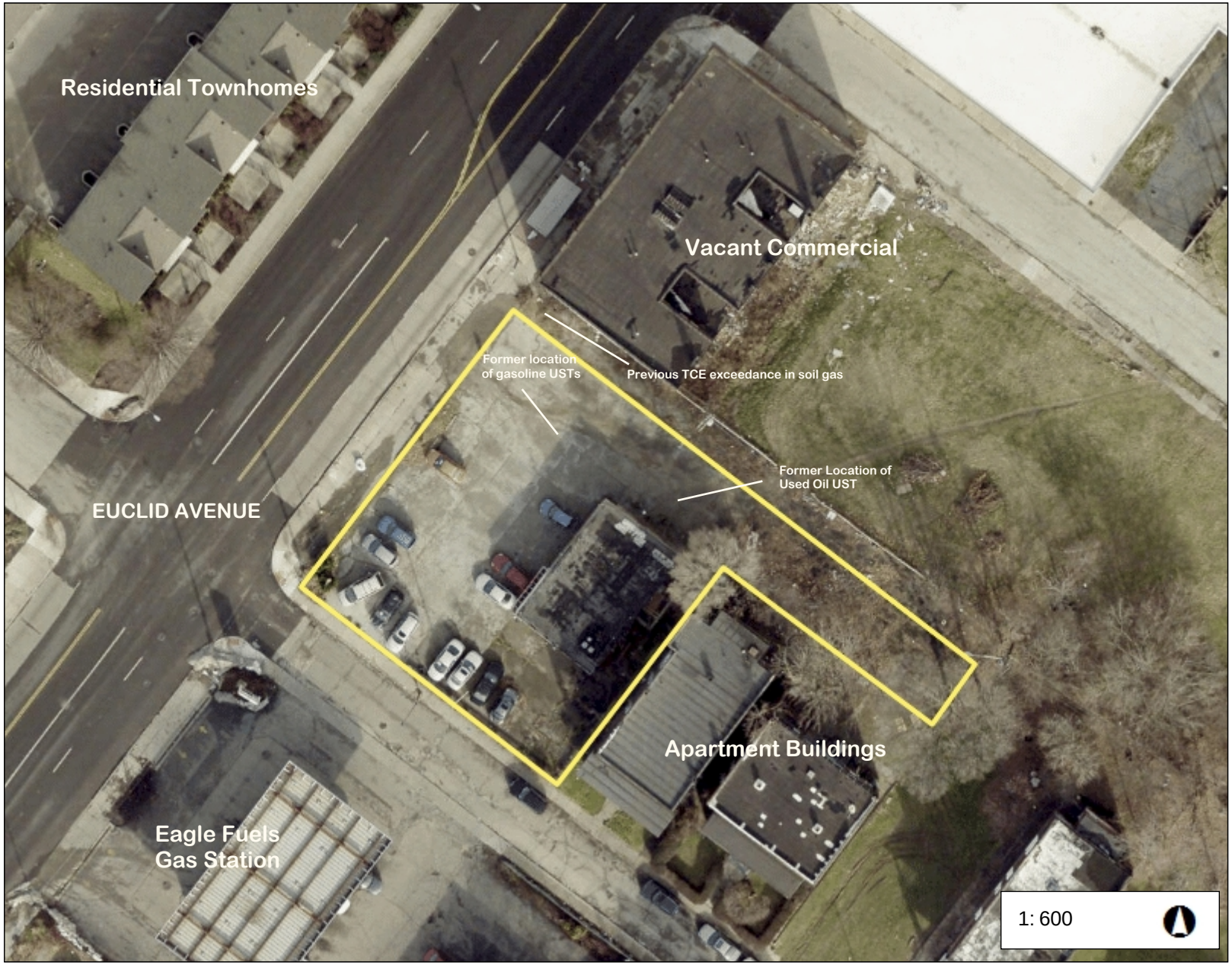
Figure 1: Property Location Map

12500 Euclid Avenue
Cleveland, Ohio 44112

PREPARED FOR:	**CCLRC**		
PROJ. MGR:	**VEW**	**DATE:**	**9/17/2021**
DRAWN BY:	**VEW**	**PROJ. #:**	**896.118**

Figure 2: Property and Surrounding Area Map



Date Created: 11/16/2021

Legend

12500 Euclid Avenue
East Cleveland, Ohio

100 0 50 100 Feet

Projection:
WGS_1984_Web_Mercator_Auxiliary_Sphere

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THIS MAP IS NOT TO BE USED FOR NAVIGATION

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Figure 3: Sample Location Map

Date Created: 11/16/2021

Legend

- Soil Boring
- Monitoring Well

12500 Euclid Avenue
East Cleveland, Ohio

100 0 50 100 Feet

Projection:
WGS_1984_Web_Mercator_Auxiliary_Sphere

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Figure 4: GPR Grid and Anomalies

Date Created: 11/16/2021

Legend

12500 Euclid Avenue
East Cleveland, Ohio

100 0 50 100 Feet

Projection:
WGS_1984_Web_Mercator_Auxiliary_Sphere

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TABLES

Table 1
Summary of COCs in Soil
Former Gasoline Filling Station
12500 Euclid Avenue, East Cleveland, Cuyahoga County, Ohio

Sample ID (Depth[1])		VAP Standards		SB-01 (2-4FT)	SB-01 (8-10FT)	SB-02 (0-2FT)	SB-02 (6-8FT)	SB-03 (0-2FT)	SB-03 (6-8FT)	SB-04 (4-6FT)	SB-04 (6-8FT)	SB-05 (6-8FT)	SB-05 (8-10FT)	SB-05 (8-10FT) Duplicate	SB-06 (0-2FT)	SB-06 (8-10FT)	MW-01 (4-6FT)	MW-01 (8-10FT)	MW-02 (0-2FT)	MW-02 (2-4FT)
Collection Date		*GDCS Commercial/ Industrial Land Use[3]*	*GDCS Construction & Excavation Activities[4]*	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021
Parameter	**Units[2]**			Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
Volatile Organic Compounds - VOCs																				
Acetone	mg/kg	*110,000*	*110,000*	<0.0662	<0.0683	<0.0671	<0.0626	<0.0604	<0.0657	<0.0673	<0.0680	<0.0584	<0.0679	<0.0687	<0.0584	<0.0694	<0.0684	<0.0702	<0.0652	<0.0713
Acrylonitrile	mg/kg	*30*	*62*	<0.0165	<0.0171	<0.0168	<0.0157	<0.0151	<0.0164	<0.0168	<0.0170	<0.0146	<0.0170	<0.0172	<0.0146	<0.0173	<0.0171	<0.0176	<0.0163	<0.0178
Benzene	mg/kg	*130*	*1,200*	<0.00132	<0.00137	<0.00134	<0.00125	**0.000986**	<0.00131	<0.00135	<0.00136	<0.00117	<0.00136	<0.00137	**0.00107**	<0.00139	<0.00137	**0.0014**	**0.00434**	<0.00143
Bromobenzene	mg/kg	*NE*	*NE*	<0.0165	<0.0171	<0.0168	<0.0157	<0.0151	<0.0164	<0.0168	<0.0170	<0.0146	<0.0170	<0.0172	<0.0146	<0.0173	<0.0171	<0.0176	<0.0163	<0.0178
Bromodichloromethane	mg/kg	*33*	*300*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
Bromoform	mg/kg	*910*	*910*	<0.0331	<0.0341	<0.0336	<0.0313	<0.0302	<0.0328	<0.0336	<0.0340	<0.0292	<0.0340	<0.0344	<0.0292	<0.0347	<0.0342	<0.0351	<0.0326	<0.0356
Bromomethane	mg/kg	*76*	*550*	<0.0165	<0.0171	<0.0168	<0.0157	<0.0151	<0.0164	<0.0168	<0.0170	<0.0146	<0.0170	<0.0172	<0.0146	<0.0173	<0.0171	<0.0176	<0.0163	<0.0178
n-Butylbenzene	mg/kg	*110[5]*	*110[5]*	<0.0165	<0.0171	<0.0168	<0.0157	<0.0151	<0.0164	<0.0168	<0.0170	<0.0146	**0.421**	**0.808**	**0.0109**	<0.0173	<0.0171	<0.0176	<0.0163	<0.0178
sec-Butylbenzene	mg/kg	*140[5]*	*140[5]*	<0.0165	<0.0171	<0.0168	<0.0157	<0.0151	<0.0164	<0.0168	<0.0170	**0.00401**	**0.872**	**0.958**	**0.0093**	<0.0173	<0.0171	<0.0176	<0.0163	<0.0178
tert-Butylbenzene	mg/kg	*180[5]*	*180[5]*	<0.00662	<0.00683	<0.00671	<0.00626	<0.00604	<0.00657	<0.00673	<0.00680	<0.00584	**0.0564**	**0.0583**	<0.00584	<0.00694	<0.00684	<0.00702	<0.00652	<0.00713
Carbon tetrachloride	mg/kg	*74*	*460*	<0.00662	<0.00683	<0.00671	<0.00626	**0.00298**	<0.00657	<0.00673	<0.00680	<0.00584	<0.00679	<0.00687	<0.00584	<0.00694	<0.00684	<0.00702	<0.00652	<0.00713
Chlorobenzene	mg/kg	*760*	*760*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
Chlorodibromomethane	mg/kg	*800*	*800*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
Chloroethane	mg/kg	*2,100*	*2,100*	<0.00662	<0.00683	<0.00671	<0.00626	<0.00604	<0.00657	<0.00673	<0.00680	<0.00584	<0.00679	<0.00687	<0.00584	<0.00694	<0.00684	<0.00702	<0.00652	<0.00713
Chloroform	mg/kg	*35*	*320*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
Chloromethane	mg/kg	*1,200*	*1,300*	<0.0165	<0.0171	<0.0168	<0.0157	<0.0151	<0.0164	<0.0168	<0.0170	<0.0146	<0.0170	<0.0172	<0.0146	<0.0173	<0.0171	<0.0176	<0.0163	<0.0178
2-Chlorotoluene	mg/kg	*NE*	*NE*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
4-Chlorotoluene	mg/kg	*NE*	*NE*	<0.00662	<0.00683	<0.00671	<0.00626	<0.00604	<0.00657	<0.00673	<0.00680	<0.00584	<0.00679	<0.00687	<0.00584	<0.00694	<0.00684	<0.00702	<0.00652	<0.00713
1,2-Dibromo-3-Chloropropane	mg/kg	*1.6*	*15*	<0.0331	<0.0341	<0.0336	<0.0313	<0.0302	<0.0328	<0.0336	<0.0340	<0.0292	<0.0340	<0.0344	<0.0292	<0.0347	<0.0342	<0.0351	<0.0326	<0.0356
1,2-Dibromoethane (EDB)	mg/kg	*4.2*	*39*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
Dibromomethane	mg/kg	*250[5]*	*870[5]*	<0.00662	<0.00683	<0.00671	<0.00626	<0.00604	<0.00657	<0.00673	<0.00680	<0.00584	<0.00679	<0.00687	<0.00584	<0.00694	<0.00684	<0.00702	<0.00652	<0.00713
1,2-Dichlorobenzene	mg/kg	*380*	*380*	<0.00662	<0.00683	<0.00671	<0.00626	<0.00604	<0.00657	<0.00673	<0.00680	<0.00584	<0.00679	<0.00687	<0.00584	<0.00694	<0.00684	<0.00702	<0.00652	<0.00713
1,3-Dichlorobenzene	mg/kg	*NE*	*NE*	<0.00662	<0.00683	<0.00671	<0.00626	<0.00604	<0.00657	<0.00673	<0.00680	<0.00584	<0.00679	<0.00687	<0.00584	<0.00694	<0.00684	<0.00702	<0.00652	<0.00713
1,4-Dichlorobenzene	mg/kg	*290*	*2,600*	<0.00662	<0.00683	<0.00671	<0.00626	<0.00604	<0.00657	<0.00673	<0.00680	<0.00584	<0.00679	<0.00687	<0.00584	<0.00694	<0.00684	<0.00702	<0.00652	<0.00713
Dichlorodifluoromethane	mg/kg	*850*	*850*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
1,1-Dichloroethane	mg/kg	*390*	*1,700*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	**0.00583**	<0.00326	<0.00356
1,2-Dichloroethane (EDC)	mg/kg	*52*	*480*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
1,1-Dichloroethene	mg/kg	*1,200*	*360*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
cis-1,2-Dichloroethene	mg/kg	*2,400*	*2,400*	<0.00331	**0.00586**	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	**0.0256**	<0.00326	<0.00356
trans-1,2-Dichloroethene	mg/kg	*1,900*	*1,900*	<0.00662	<0.00683	<0.00671	<0.00626	<0.00604	<0.00657	<0.00673	<0.00680	<0.00584	<0.00679	<0.00687	<0.00584	<0.00694	<0.00684	<0.00702	<0.00652	<0.00713
1,2-Dichloropropane	mg/kg	*170*	*180*	<0.00662	<0.00683	<0.00671	<0.00626	<0.00604	<0.00657	<0.00673	<0.00680	<0.00584	<0.00679	<0.00687	<0.00584	<0.00694	<0.00684	<0.00702	<0.00652	<0.00713
1,1-Dichloropropene	mg/kg	*NE*	*NE*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
1,3-Dichloropropane	mg/kg	*1,500*	*1,500*	<0.00662	<0.00683	<0.00671	<0.00626	<0.00604	<0.00657	<0.00673	<0.00680	<0.00584	<0.00679	<0.00687	<0.00584	<0.00694	<0.00684	<0.00702	<0.00652	<0.00713
cis-1,3-Dichloropropene	mg/kg	*NE*	*NE*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
trans-1,3-Dichloropropene	mg/kg	*NE*	*NE*	<0.00662	<0.00683	<0.00671	<0.00626	<0.00604	<0.00657	<0.00673	<0.00680	<0.00584	<0.00679	<0.00687	<0.00584	<0.00694	<0.00684	<0.00702	<0.00652	<0.00713
2,2-Dichloropropane	mg/kg	*NE*	*NE*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
Di-Isopropyl Ether	mg/kg	*NE*	*NE*	<0.00132	<0.00137	<0.00134	<0.00125	<0.00121	<0.00131	<0.00135	<0.00136	<0.00117	<0.00136	<0.00137	<0.00117	<0.00139	<0.00137	<0.00140	<0.00130	<0.00143
Ethylbenzene	mg/kg	*480*	*480*	<0.00331	<0.00341	<0.00336	<0.00313	**0.00367**	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	**0.00264**	<0.00347	<0.00342	<0.00351	**0.012**	<0.00356
Hexachloro-1,3-butadiene	mg/kg	*17*	*17*	<0.0331	<0.0341	<0.0336	<0.0313	<0.0302	<0.0328	<0.0336	<0.0340	<0.0292	<0.0340	<0.0344	<0.0292	<0.0347	<0.0342	<0.0351	<0.0326	<0.0356
n-Hexane	mg/kg	*140*	*140*	<0.00662	<0.00683	<0.00671	<0.00626	<0.00604	<0.00657	<0.00673	<0.00680	<0.00584	<0.00679	<0.00687	<0.00584	<0.00694	<0.00684	<0.00702	<0.00652	<0.00713
Isopropylbenzene	mg/kg	*270*	*270*	<0.00331	<0.00341	<0.00336	<0.00313	**0.00403**	<0.00328	<0.00336	<0.00340	<0.00292	**0.016**	**0.0477**	**0.00183**	<0.00347	<0.00342	<0.00351	**0.00789**	<0.00356
p-Isopropyltoluene	mg/kg	*160[5]*	*160[5]*	<0.00662	<0.00683	<0.00671	<0.00626	<0.00604	<0.00657	<0.00673	<0.00680	<0.00584	**0.205**	**0.425**	**0.00427**	<0.00694	<0.00684	<0.00702	<0.00652	<0.00713
2-Butanone (MEK)	mg/kg	*28,000*	*28,000*	**0.131**	<0.137	**0.105**	<0.125	<0.121	**0.0841**	<0.135	<0.136	**0.0949**	<0.136	**0.124**	<0.117	<0.139	<0.137	<0.140	<0.130	<0.143
Methylene Chloride	mg/kg	*3,300*	*3,300*	<0.0331	<0.0341	<0.0336	<0.0313	<0.0302	<0.0328	<0.0336	<0.0340	<0.0292	<0.0340	<0.0344	<0.0292	<0.0347	<0.0342	<0.0351	<0.0326	<0.0356
4-Methyl-2-pentanone (MIBK)	mg/kg	*3,400*	*3,400*	<0.0331	<0.0341	<0.0336	<0.0313	**0.00356**	<0.0328	<0.0336	<0.0340	<0.0292	**0.0929**	<0.0344	<0.0292	<0.0347	<0.0342	<0.0351	<0.0326	<0.0356
Methyl tert-butyl ether (MTBE)	mg/kg	*5,400*	*8,900*	<0.00132	<0.00137	<0.00134	<0.00125	<0.00121	<0.00131	<0.00135	<0.00136	<0.00117	<0.00136	<0.00137	<0.00117	<0.00139	<0.00137	<0.00140	<0.00130	<0.00143
Naphthalene	mg/kg	*420*	*560*	<0.0165	<0.0171	<0.0168	<0.0157	**0.0227**	<0.0164	<0.0168	<0.0170	<0.0146	**0.0465**	**0.102**	**0.0169**	<0.0173	<0.0171	<0.0176	**0.0384**	<0.0178
n-Propylbenzene	mg/kg	*260[5]*	*260[5]*	<0.00662	<0.00683	<0.00671	<0.00626	**0.00695**	<0.00657	<0.00673	<0.00680	<0.00584	**0.0526**	**0.133**	**0.00335**	<0.00694	<0.00684	<0.00702	**0.0121**	<0.00713
Styrene	mg/kg	*870*	*870*	<0.0165	<0.0171	<0.0168	<0.0157	<0.0151	<0.0164	<0.0168	<0.0170	<0.0146	<0.0170	<0.0172	<0.0146	<0.0173	<0.0171	<0.0176	<0.0163	<0.0178
1,1,1,2-Tetrachloroethane	mg/kg	*230*	*680*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
1,1,2,2-Tetrachloroethane	mg/kg	*71*	*670*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
Tetrachloroethene (PCE)	mg/kg	*170*	*170*	<0.00331	<0.00341	<0.00336	<0.00313	**0.00135**	<0.00328	<0.00336	<0.00340	<0.00292	**0.00145**	**0.00249**	**0.00841**	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
Toluene	mg/kg	*820*	*820*	<0.00662	<0.00683	<0.00671	<0.00626	**0.011**	<0.00657	<0.00673	<0.00680	<0.00584	<0.00679	<0.00687	**0.00511**	<0.00694	<0.00684	<0.00702	**0.0378**	<0.00713
1,2,3-Trichlorobenzene	mg/kg	*NE*	*NE*	<0.0165	<0.0171	<0.0168	<0.0157	<0.0151	<0.0164	<0.0168	<0.0170	<0.0146	<0.0170	<0.0172	<0.0146	<0.0173	<0.0171	<0.0176	<0.0163	<0.0178
1,2,4-Trichlorobenzene	mg/kg	*400*	*400*	<0.0165	<0.0171	<0.0168	<0.0157	<0.0151	<0.0164	<0.0168	<0.0170	<0.0146	**0.0496**	**0.0423**	<0.0146	<0.0173	<0.0171	<0.0176	<0.0163	<0.0178
1,1,1-Trichloroethane	mg/kg	*640*	*640*	<0.00331	<0.00341	<0.00336	<0.00313	**0.0295**	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
1,1,2-Trichloroethane	mg/kg	*130*	*1,200*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
Trichloroethene (TCE)	mg/kg	*48*	*17*	<0.00132	**0.133**	<0.00134	<0.00125	**0.019**	<0.00131	<0.00135	<0.00136	<0.00117	<0.00136	<0.00137	**0.00645**	<0.00139	**0.0049**	**0.347**	<0.00130	<0.00143

Table 1
Summary of COCs in Soil
Former Gasoline Filling Station
12500 Euclid Avenue, East Cleveland, Cuyahoga County, Ohio

Trichlorofluoromethane	mg/kg	*1,200*	*1,200*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
1,2,3-Trichloropropane	mg/kg	*4.4*	*19*	<0.0165	<0.0171	<0.0168	<0.0157	<0.0151	<0.0164	<0.0168	<0.0170	<0.0146	<0.0170	<0.0172	<0.0146	<0.0173	<0.0171	<0.0176	<0.0163	<0.0178
1,2,4-Trimethylbenzene	mg/kg	*220*	*220*	<0.00662	<0.00683	<0.00671	<0.00626	**0.00993**	<0.00657	<0.00673	<0.00680	**0.00869**	**0.511**	**1.86**	**0.018**	<0.00694	<0.00684	<0.00702	**0.0159**	<0.00713
1,3,5-Trimethylbenzene	mg/kg	*180*	*180*	<0.00662	<0.00683	<0.00671	<0.00626	<0.00604	<0.00657	<0.00673	<0.00680	**0.00962**	**0.614**	**1.51**	**0.0114**	<0.00694	<0.00684	<0.00702	**0.0036**	<0.00713
Vinyl chloride	mg/kg	*49*	*280*	<0.00331	<0.00341	<0.00336	<0.00313	<0.00302	<0.00328	<0.00336	<0.00340	<0.00292	<0.00340	<0.00344	<0.00292	<0.00347	<0.00342	<0.00351	<0.00326	<0.00356
Xylenes, Total	mg/kg	*260*	*260*	<0.00860	<0.00887	<0.00873	<0.00814	**0.0302**	<0.00854	<0.00874	<0.00884	<0.00759	**0.00274**	**0.00906**	**0.0193**	<0.00902	<0.00889	**0.00229**	**0.0665**	**0.00143**
Polynuclear Aromatic Hydrocarbons-PAHs																				
Anthracene	mg/kg	*670,000*	*1,000,000*	-	<0.00701	-	-	-	<0.00684	-	-	-	**0.0216**	**0.0414**	-	-	-	-	-	**0.00778**
Acenaphthene	mg/kg	*1,000,000*	*290,000*	-	<0.00701	-	-	-	<0.00684	-	-	-	**0.0396**	**0.0714**	-	-	-	-	-	<0.00703
Acenaphthylene	mg/kg	*130,000* [5]	*290,000* [5]	-	<0.00701	-	-	-	<0.00684	-	-	-	<0.00696	<0.00697	-	-	-	-	-	**0.00428**
Benzo(a)anthracene	mg/kg	*610*	*9,600*	-	**0.00521**	-	-	-	<0.00684	-	-	-	**0.0407**	**0.0721**	-	-	-	-	-	**0.0353**
Benzo(a)pyrene	mg/kg	*62*	*230*	-	**0.00744**	-	-	-	<0.00684	-	-	-	**0.0312**	**0.0599**	-	-	-	-	-	**0.029**
Benzo(b)fluoranthene	mg/kg	*620*	*10,000*	-	**0.0109**	-	-	-	<0.00684	-	-	-	**0.0312**	**0.0639**	-	-	-	-	-	**0.0479**
Benzo(g,h,i)perylene	mg/kg	*67,000* [5]	*430,000* [5]	-	**0.0083**	-	-	-	<0.00684	-	-	-	**0.0237**	**0.046**	-	-	-	-	-	**0.0234**
Benzo(k)fluoranthene	mg/kg	*6,200*	*100,000*	-	**0.00426**	-	-	-	<0.00684	-	-	-	**0.037**	**0.0632**	-	-	-	-	-	**0.015**
Chrysene	mg/kg	*62,000*	*1,000,000*	-	**0.00646**	-	-	-	<0.00684	-	-	-	**0.0469**	**0.0861**	-	-	-	-	-	**0.0423**
Dibenz(a,h)anthracene	mg/kg	*62*	*1,000*	-	<0.00701	-	-	-	<0.00684	-	-	-	**0.00339**	**0.00663**	-	-	-	-	-	**0.00536**
Fluoranthene	mg/kg	*89,000*	*170,000*	-	**0.0042**	-	-	-	<0.00684	-	-	-	**0.123**	**0.242**	-	-	-	-	-	**0.0872**
Fluorene	mg/kg	*89,000*	*580,000*	-	<0.00701	-	-	-	<0.00684	-	-	-	**0.0797**	**0.144**	-	-	-	-	-	<0.00703
Indeno(1,2,3-cd)pyrene	mg/kg	*620*	*10,000*	-	**0.00764**	-	-	-	<0.00684	-	-	-	**0.0171**	**0.0319**	-	-	-	-	-	**0.0274**
Naphthalene	mg/kg	*420*	*560*	-	<0.0234	-	-	-	<0.0228	-	-	-	**0.0569**	**0.0962**	-	-	-	-	-	<0.0234
Phenanthrene	mg/kg	*670,000* [5]	*1,000,000* [5]	-	<0.00701	-	-	-	<0.00684	-	-	-	**0.41**	**0.761**	-	-	-	-	-	**0.0441**
Pyrene	mg/kg	*67,000*	*430,000*	-	**0.00437**	-	-	-	<0.00684	-	-	-	**0.333**	**0.592**	-	-	-	-	-	**0.0655**
1-Methylnaphthalene	mg/kg	*390*	*390*	-	<0.0234	-	-	-	<0.0228	-	-	-	**0.123**	**0.0972**	-	-	-	-	-	<0.0234
2-Methylnaphthalene	mg/kg	*8,900*	*5,800*	-	<0.0234	-	-	-	<0.0228	-	-	-	**0.0215**	<0.0232	-	-	-	-	-	<0.0234
2-Chloronaphthalene	mg/kg	*370,000*	*1,000,000*	-	<0.0234	-	-	-	<0.0228	-	-	-	<0.0232	<0.0232	-	-	-	-	-	<0.0234
Total Petroleum Hydrocarbons-TPH [6]																				
TPH C6-C12	mg/kg	*1,000*		<3.31	<3.41	<3.36	<3.13	<3.02	<3.28	<3.36	<3.40	**8.16**	**287**	**275**	**1.31**	<3.47	<3.42	**1.81**	**1.2**	<3.56
TPH C10-C20	mg/kg	*2,000*		**0.793**	**0.714**	**0.995**	**0.892**	**8.64**	<4.56	<4.59	**0.735**	**123**	**740**	**603**	**12.5**	**0.966**	<4.64	**8.33**	**9.13**	**2.93**
TPH C20-C34	mg/kg	*5,000*		**3.68**	**1.88**	**4.62**	**1.34**	**24.7**	**0.761**	**1.64**	**1.09**	**830**	**3460**	**2700**	**67.7**	**1.03**	<4.64	**9.26**	**42.9**	**4.76**
Polychlorinated Biphenyls (PCBs)																				
PCB 1016	mg/kg	*150*	*290*	-	<0.0397	-	-	-	<0.0387	-	-	-	<0.0395	<0.0395	-	<0.0396	-	-	-	-
PCB 1221	mg/kg	*22*	*300*	-	<0.0397	-	-	-	<0.0387	-	-	-	<0.0395	<0.0395	-	<0.0396	-	-	-	-
PCB 1232	mg/kg	*18*	*230*	-	<0.0397	-	-	-	<0.0387	-	-	-	<0.0395	<0.0395	-	<0.0396	-	-	-	-
PCB 1242	mg/kg	*27*	*400*	-	<0.0397	-	-	-	<0.0387	-	-	-	<0.0395	<0.0395	-	<0.0396	-	-	-	-
PCB 1248	mg/kg	*26*	*390*	-	<0.0199	-	-	-	<0.0194	-	-	-	<0.0197	<0.0197	-	<0.0198	-	-	-	-
PCB 1254	mg/kg	*28*	*84*	-	<0.0199	-	-	-	<0.0194	-	-	-	<0.0197	<0.0197	-	<0.0198	-	-	-	-
PCB 1260	mg/kg	*28*	*450*	-	**0.0321**	-	-	-	<0.0194	-	-	-	**0.116**	**0.213**	-	<0.0198	-	-	-	-

Notes

1. FT - Feet below grade
2. mg/kg = Milligrams per kilogram - parts per million (ppm)
3. Ohio VAP GDCS Commercial/Industrial Land Use.
4. Ohio VAP GDCS Construction/Excavation Activities.
5. Supplemental standards from the Ohio VAP CIDARS.
6. TPH Action Levels defined in OAC 1301: 7-9-13, Soil Class 1.

Bold numbers indicate a concentration above laboratory detection limits.

Bold and shaded numbers indicate a detected concentration above a comparison standard.

Table 2
Summary of COCs in Groundwater
Former Gasoline Filling Station
12500 Euclid Avenue, East Cleveland, Cuyahoga County, Ohio

Sample ID		*USEPA*	MW-01		MW-02
Collection Date			10/27/2021		10/27/2021
Parameter	**Units**	***VISL***	Value	Duplicate	Value
Volatile Organic Compounds - VOCs					
Acetone	mg/l	*169,000*	<0.0113	<0.0113	<0.0113
Acrolein	mg/l	*0.031*	<0.00254	<0.00254	<0.00254
Acrylonitrile	mg/l	*0.628*	<0.000671	<0.000671	<0.000671
Benzene	mg/l	*0.13*	<0.0000941	<0.0000941	**0.000197**
Bromobenzene	mg/l	*7.06*	<0.000118	<0.000118	<0.000118
Bromodichloromethane	mg/l	*0.075*	<0.000136	<0.000136	<0.000136
Bromoform	mg/l	*12.1*	<0.000129	<0.000129	<0.000129
Bromomethane	mg/l	*0.111*	<0.000605	<0.000605	<0.000605
n-Butylbenzene	mg/l	*NIT*	<0.000157	<0.000157	<0.000157
sec-Butylbenzene	mg/l	*NIT*	<0.000125	<0.000125	<0.000125
tert-Butylbenzene	mg/l	*NIT*	<0.000127	<0.000127	<0.000127
Carbon tetrachloride	mg/l	*0.033*	<0.000128	<0.000128	<0.000128
Chlorobenzene	mg/l	*3.71*	<0.000116	<0.000116	<0.000116
Chlorodibromomethane	mg/l	*NIT*	<0.000140	<0.000140	<0.000140
Chloroethane	mg/l	*150*	<0.000192	<0.000192	<0.000192
Chloroform	mg/l	*0.063*	**0.000173**	**0.000141**	**0.000821**
Chloromethane	mg/l	*1.55*	<0.000960	<0.000960	<0.000960
2-Chlorotoluene	mg/l	*NIT*	<0.000106	<0.000106	<0.000106
4-Chlorotoluene	mg/l	*NIT*	<0.000114	<0.000114	<0.000114
1,2-Dibromo-3-Chloropropane	mg/l	*0.009*	<0.000276	<0.000276	<0.000276
1,2-Dibromoethane	mg/l	*0.016*	<0.000126	<0.000126	<0.000126
Dibromomethane	mg/l	*1.03*	<0.000122	<0.000122	<0.000122
1,2-Dichlorobenzene	mg/l	*27.5*	<0.000107	<0.000107	<0.000107
1,3-Dichlorobenzene	mg/l	*NE*	<0.000110	<0.000110	<0.000110
1,4-Dichlorobenzene	mg/l	*0.279*	<0.000120	<0.000120	<0.000120
Dichlorodifluoromethane	mg/l	*0.042*	<0.000374	<0.000374	<0.000374
1,1-Dichloroethane	mg/l	*0.59*	<0.000100	<0.000100	<0.000100
1,2-Dichloroethane	mg/l	*0.189*	<0.0000819	<0.0000819	<0.0000819
1,1-Dichloroethene	mg/l	*1.34*	<0.000188	<0.000188	<0.000188
cis-1,2-Dichloroethene	mg/l	*NIT*	**0.016**	**0.0148**	<0.000126
trans-1,2-Dichloroethene	mg/l	*0.802*	**0.00177**	**0.0015**	<0.000149
1,2-Dichloropropane	mg/l	*0.296*	<0.000149	<0.000149	<0.000149
1,1-Dichloropropene	mg/l	*NE*	<0.000142	<0.000142	<0.000142
1,3-Dichloropropane	mg/l	*NIT*	<0.000110	<0.000110	<0.000110
cis-1,3-Dichloropropene	mg/l	*NE*	<0.000111	<0.000111	<0.000111
trans-1,3-Dichloropropene	mg/l	*NE*	<0.000118	<0.000118	<0.000118
2,2-Dichloropropane	mg/l	*NE*	<0.000161	<0.000161	<0.000161
Di-Isopropyl Ether	mg/l	*NE*	<0.000105	<0.000105	<0.000105
Ethylbenzene	mg/l	*0.337*	**0.000256**	<0.000137	<0.000137
Hexachloro-1,3-butadiene	mg/l	*0.036*	<0.000337	<0.000337	<0.000337
n-Hexane	mg/l	*0.076*	<0.000749	<0.000749	<0.000749
Isopropylbenzene	mg/l	*10.2*	<0.000105	<0.000105	<0.000105
p-Isopropyltoluene	mg/l	*NE*	<0.000120	<0.000120	<0.000120
2-Butanone (MEK)	mg/l	*18,100*	<0.00119	<0.00119	<0.00119

Table 2
Summary of COCs in Groundwater
Former Gasoline Filling Station
12500 Euclid Avenue, East Cleveland, Cuyahoga County, Ohio

Sample ID		***USEPA***	**MW-01**		**MW-02**
Collection Date			10/27/2021		10/27/2021
Parameter	**Units**	***VISL***	Value	Duplicate	Value
Volatile Organic Compounds - VOCs					
Methylene Chloride	mg/l	*33.8*	<0.000430	<0.000430	<0.000430
4-Methyl-2-pentanone (MIBK)	mg/l	*5,020*	<0.000478	<0.000478	<0.000478
Methyl tert-butyl ether	mg/l	*34.3*	<0.000101	<0.000101	<0.000101
Naphthalene	mg/l	*0.559*	**0.0021**	<0.00100	<0.00100
n-Propylbenzene	mg/l	*24.8*	**0.000182**	<0.0000993	<0.0000993
Styrene	mg/l	*88.5*	<0.000118	<0.000118	<0.000118
1,1,1,2-Tetrachloroethane	mg/l	*0.4*	<0.000147	<0.000147	<0.000147
1,1,2,2-Tetrachloroethane	mg/l	*0.327*	<0.000133	<0.000133	<0.000133
Tetrachloroethene	mg/l	*0.51*	<0.000300	<0.000300	<0.000300
Toluene	mg/l	*164*	<0.000278	<0.000278	<0.000278
1,2,3-Trichlorobenzene	mg/l	*NIT*	<0.000230	<0.000230	<0.000230
1,2,4-Trichlorobenzene	mg/l	*0.432*	<0.000481	<0.000481	<0.000481
1,1,1-Trichloroethane	mg/l	*57.1*	**0.000482**	**0.000393**	<0.000149
1,1,2-Trichloroethane	mg/l	*0.055*	<0.000158	<0.000158	<0.000158
Trichloroethene	mg/l	*0.0416*	**0.101**	**0.0866**	<0.000190
Trichlorofluoromethane	mg/l	*NIT*	<0.000160	<0.000160	<0.000160
1,2,3-Trichloropropane	mg/l	*0.004*	<0.000237	<0.000237	<0.000237
1,2,4-Trimethylbenzene	mg/l	*2.63*	**0.00198**	<0.000322	<0.000322
1,3,5-Trimethylbenzene	mg/l	*1.84*	<0.000104	<0.000104	<0.000104
Vinyl chloride	mg/l	*0.035*	<0.000234	<0.000234	<0.000234
Xylenes, Total	mg/l	*3.6*	**0.000813**	<0.000174	<0.000174

Notes

mg/l = Milligrams per liter - parts per million (ppm).

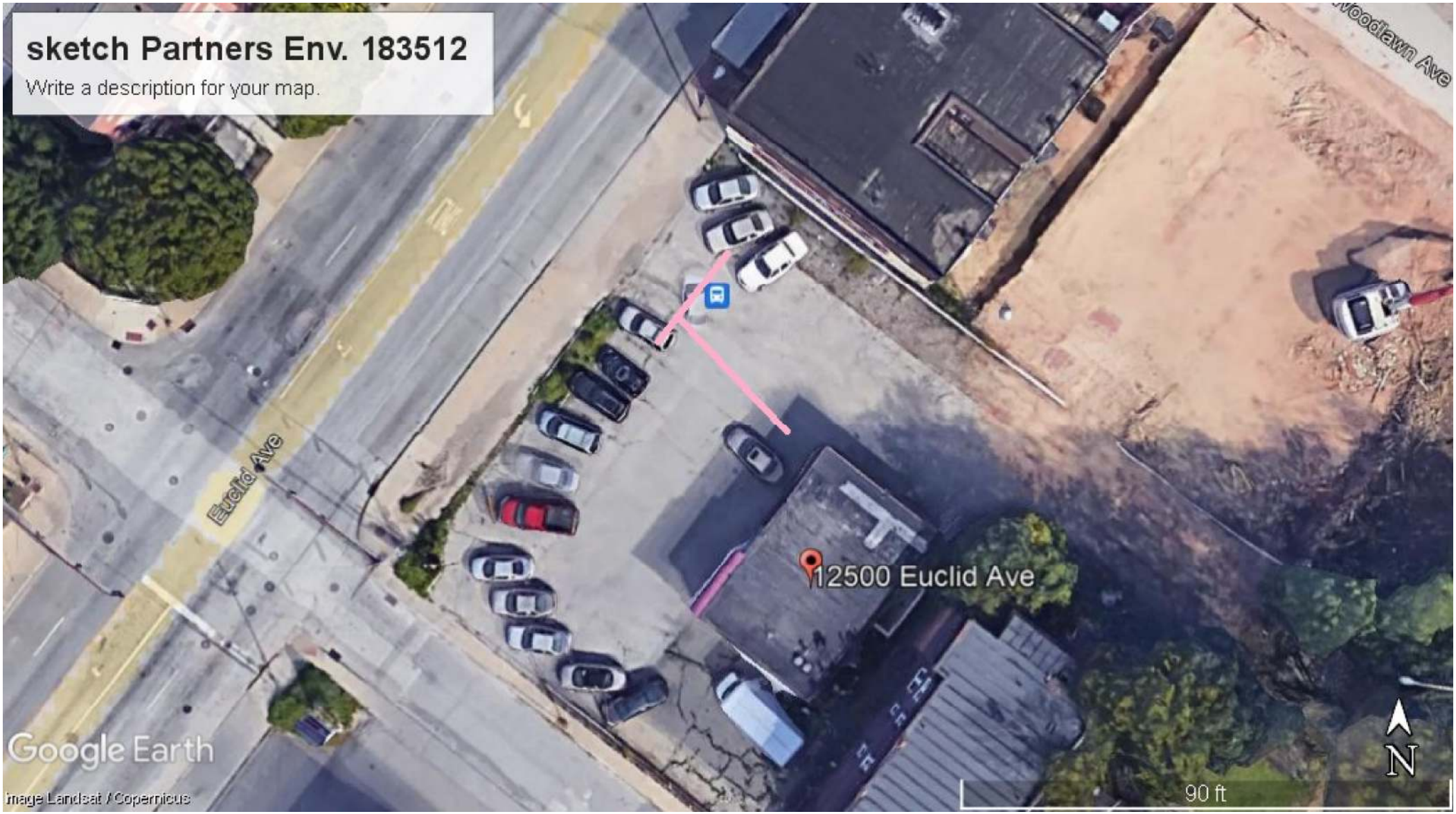
USEPA VISL Target Groundwater Concentration for Commercial Use.

NE: No standard established by Ohio EPA; **NSV**: Not sufficiently volatile; **NIT**: No inhalation toxicity.

Bold numbers indicate a concentration above laboratory detection limits.

Bold and shaded numbers indicate a concentration above a comparison standard.

APPENDIX A
GROUND PENETRATING RADAR DOCUMENTATION


sketch Partners Env. 183512
Write a description for your map.
Euclid Ave
12500 Euclid Ave
Woodlawn Ave
Google Earth
Image Landsat / Copernicus
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AUTOMAX
SALES - SERVICE
AUTOMAX AMERICA INC.


AUTOMAX AMERICA INC.


AUTOMAX
AMERICA
INC.

APPENDIX B
SOIL BORING AND MONITORING WELL LOGS

PARTNERS ENVIRONMENTAL

PARTNERS ENVIRONMENTAL CONSULTING, INC.

SOIL BOREHOLE LOG — SB-01

1 of 1

Client:	CCLRC-12500 Euclid Avenue	Location:	See site map
Date Drilled:	10/26/2021	Total Depth:	12 feet
Drilling Method:	Direct Push	Casing Elevation:	Not Applicable
Drilling Company:	EnviroCore	Top of Water:	8.3 feet (encounter)
Driller:	Cody	Backfill Material:	Bentonite
Geologist:	Tom Weir		

Depth	Sample Type & Identification	SPT Blows Per 0.5 feet	Recovery (%)	PID/FID Readings	Profile	Geologic Description	USCS Soil Classification
	0-2'	N/A	50%	0.1		ASPHALT (3") FILL: Brown sandy CLAY, moist, no odors or staining.	
2.0	**2-4'**	**N/A**	**50%**	**0.2**		Brown fine SAND with varying amounts of silt, moist, no odors or staining.	SP-SM
4.0	4-6'	NA	40%	0.2			
6.0	6-8'	NA	40%	0.0		Very moist at 7.8 feet.	
8.0	**8-10'**	**NA**	**100%**	**1.3**		Brown fine to medium SAND with gravel (3") then brown fine SAND, very loose, wet, no odors or staining.	SP
10.0	10-12'	NA	100%	0.1			
12.0						Direct Push sampling terminated at 12 feet bgs. Sample interval shown in **bold** submitted for laboratory analysis.	
14.0							
16.0							
18.0							
20.0							
22.0							
24.0							

LEGEND

- Clay/Silty Clay
- Silt/Clayey Silt
- Sandy Clay/Clayey Sand
- Silty Sand
- Fine Sand
- Medium Sand
- Coarse Sand
- Fill/Backfill
- Decomposed Rock/Bedrock

PARTNERS ENVIRONMENTAL

PARTNERS ENVIRONMENTAL CONSULTING, INC.

SOIL BOREHOLE LOG

SB-02

Client:	CCLRC-12500 Euclid Avenue	Location:	See site map
Date Drilled:	10/26/2021	Total Depth:	12 feet
Drilling Method:	Direct Push	Casing Elevation:	Not Applicable
Drilling Company:	EnviroCore	Top of Water:	8 feet (encounter)
Driller:	Cody	Backfill Material:	Bentonite
Geologist:	Tom Weir		

Depth	Sample Type & Identification	SPT Blows Per 0.5 feet	Recovery (%)	PID/FID Readings	Profile	Geologic Description	USCS Soil Classification
	0-2'	**N/A**	**70%**	**0.0**		ASPHALT (3") GRAVEL BASE (3")	
2.0							
	2-4'	N/A	70%	0.0			
4.0						Brown fine SAND with varying amounts of silt, moist, no odors or staining.	SP-SM
	4-6'	NA	60%	0.0			
6.0							
	6-8'	**NA**	**60%**	**0.0**			
8.0							
	8-10'	NA	80%	0.1		Wet at 8 feet, very loose 8 to 10.5 feet.	
10.0							
	10-12'	NA	80%	0.4			
12.0						Weathered gray SHALE, moist, no odors or staining.	
						Direct Push sampling terminated at 12 feet bgs.	
14.0						Sample interval shown in **bold** submitted for laboratory analysis.	
16.0							
18.0							
20.0							
22.0							
24.0							

LEGEND

- Clay/Silty Clay
- Silt/Clayey Silt
- Sandy Clay/Clayey Sand
- Silty Sand
- Fine Sand
- Medium Sand
- Coarse Sand
- Fill/Backfill
- Decomposed Rock/Bedrock

PARTNERS ENVIRONMENTAL

PARTNERS ENVIRONMENTAL CONSULTING, INC.

SOIL BOREHOLE LOG

SB-03

1 of 1

Client:	CCLRC-12500 Euclid Avenue	Location:	See site map
Date Drilled:	10/26/2021	Total Depth:	12 feet
Drilling Method:	Direct Push	Casing Elevation:	Not Applicable
Drilling Company:	EnviroCore	Top of Water:	8.2 feet (encounter)
Driller:	Cody	Backfill Material:	Bentonite
Geologist:	Tom Weir		

Depth	Sample Type & Identification	SPT Blows Per 0.5 feet	Recovery (%)	PID/FID Readings	Profile	Geologic Description	USCS Soil Classification
	0-2'	**N/A**	**50%**	**1.5**		ASPHALT (3") GRAVEL BASE (4") FILL: Brown fine SAND with silt and trace brick, moist, no odors or staining.	
2.0	2-4'	N/A	50%	1.0		Brown fine SAND with varying amounts of silt, moist, no odors or staining.	SP-SM
4.0	4-6'	NA	70%	0.7			
6.0	**6-8'**	**NA**	**70%**	**0.8**			
8.0						(8.2 feet)	
	8-10'	NA	100%	1.2			
10.0	10-12'	NA	100%	0.1		Brown fine to medium SAND, very loose, wet, no odors or staining.	SP
12.0						Brown fine to coarse SAND with gravel, dense, moist, no odors or staining.	SW
14.0						Direct Push sampling terminated at 12 feet bgs. Sample interval shown in **bold** submitted for laboratory analysis.	
16.0							
18.0							
20.0							
22.0							
24.0							

LEGEND

- Clay/Silty Clay
- Silt/Clayey Silt
- Sandy Clay/Clayey Sand
- Silty Sand
- Fine Sand
- Medium Sand
- Coarse Sand
- Fill/Backfill
- Decomposed Rock/Bedrock

PARTNERS ENVIRONMENTAL

PARTNERS ENVIRONMENTAL CONSULTING, INC.

SOIL BOREHOLE LOG

SB-04

1 of 1

Client:	CCLRC-12500 Euclid Avenue	Location:	See site map
Date Drilled:	10/26/2021	Total Depth:	12 feet
Drilling Method:	Direct Push	Casing Elevation:	Not Applicable
Drilling Company:	EnviroCore	Top of Water:	Not Applicable
Driller:	Cody	Backfill Material:	Bentonite
Geologist:	Tom Weir		

Depth	Sample Type & Identification	SPT Blows Per 0.5 feet	Recovery (%)	PID/FID Readings	Profile	Geologic Description	USCS Soil Classification
2.0	0-2'	N/A	0%	-		ASPHALT (3") No recovery at 3 locations. Hitting concrete and brick fill debris near the dispenser; jamming in sampler.	
4.0	2-4'	N/A	0%	-			
6.0	**4-6'**	**NA**	**50%**	**0.7**			
8.0	**6-8'**	**NA**	**50%**	**0.5**		Brown fine to medium SAND with varying amounts of silt and some clay, moist to very moist, very loose 7 to 10.2 feet, no odors or staining.	SP-SM
10.0	8-10'	NA	20%	0.3			
12.0	10-12'	NA	80%	0.6		(10.2 feet) Weathered gray SHALE, moist, no odors or staining.	
14.0						Direct Push sampling terminated at 12 feet bgs. Sample interval shown in **bold** submitted for laboratory analysis.	
16.0							
18.0							
20.0							
22.0							
24.0							

LEGEND

- Clay/Silty Clay
- Silt/Clayey Silt
- Sandy Clay/Clayey Sand
- Silty Sand
- Fine Sand
- Medium Sand
- Coarse Sand
- Fill/Backfill
- Decomposed Rock/Bedrock

PARTNERS ENVIRONMENTAL

PARTNERS ENVIRONMENTAL CONSULTING, INC.

SOIL BOREHOLE LOG — SB-05

1 of 1

Client:	CCLRC-12500 Euclid Avenue	Location:	See site map
Date Drilled:	10/26/2021	Total Depth:	11 feet
Drilling Method:	Direct Push	Casing Elevation:	Not Applicable
Drilling Company:	EnviroCore	Top of Water:	8.5 feet (encounter)
Driller:	Cody	Backfill Material:	Bentonite
Geologist:	Tom Weir		

Depth	Sample Type & Identification	SPT Blows Per 0.5 feet	Recovery (%)	PID/FID Readings	Profile	Geologic Description	USCS Soil Classification
2.0	0-2'	N/A	70%	1.3		CONCRETE (4") FILL: Brown fine SAND with gravel and brick fragments, moist no odors or staining.	
4.0	2-4'	N/A	70%	1.0		(2.75 feet)	
6.0	4-6'	NA	80%	1.2		Brown fine SAND with some silt in layers, moist, petroleum odors at 6 feet, no staining.	SP
8.0	**6-8'**	**NA**	**80%**	**102.5**		(7.7 feet) Gray stained fine SAND, petroleum odor, very loose and wet 8.5 to 9.2 feet, sheen.	SP
10.0	**8-10'**	**NA**	**90%**	**308.9**		(9.2 feet) Brown fine SAND, very loose, wet, petroleum odor, sheen. (10.2 feet)	SP
12.0	10-12'	NA	90%	3.6		Weathered gray SHALE, moist, no odors or staining.	
14.0						Direct Push sampling terminated at 11 feet bgs due to sampler refusal. Sample interval shown in **bold** submitted for laboratory analysis.	
16.0							
18.0							
20.0							
22.0							
24.0							

LEGEND

- Clay/Silty Clay
- Silt/Clayey Silt
- Sandy Clay/Clayey Sand
- Silty Sand
- Fine Sand
- Medium Sand
- Coarse Sand
- Fill/Backfill
- Decomposed Rock/Bedrock

PARTNERS ENVIRONMENTAL

PARTNERS ENVIRONMENTAL CONSULTING, INC.

SOIL BOREHOLE LOG

SB-06

1 of 1

Client:	CCLRC-12500 Euclid Avenue	Location:	See site map
Date Drilled:	10/26/2021	Total Depth:	11 feet
Drilling Method:	Direct Push	Casing Elevation:	Not Applicable
Drilling Company:	EnviroCore	Top of Water:	8 feet (encounter)
Driller:	Cody	Backfill Material:	Bentonite
Geologist:	Tom Weir		

Depth	Sample Type & Identification	SPT Blows Per 0.5 feet	Recovery (%)	PID/FID Readings	Profile	Geologic Description	USCS Soil Classification
2.0	**0-2'**	**N/A**	**40%**	**0.8**		CONCRETE (4") FILL: Brown fine SAND with trace slag and brick fragments, moist no odors or staining. (1.8 feet)	
4.0	2-4'	N/A	40%	0.3			
6.0	4-6'	NA	70%	0.3		Brown fine SAND with some medium sand and silt, moist, no odors or staining.	SP
8.0	6-8'	NA	70%	0.4			
10.0	**8-10'**	**NA**	**80%**	**0.3**		Brown fine to medium SAND with some gravel, loose, wet, no odors or staining. (10.2 feet)	SP
12.0	10-12'	NA	80%	0.3		Weathered gray SHALE, moist, no odors or staining.	
14.0						Direct Push sampling terminated at 11 feet bgs due to sampler refusal. Sample interval shown in **bold** submitted for laboratory analysis.	
16.0							
18.0							
20.0							
22.0							
24.0							

LEGEND

- Clay/Silty Clay
- Silt/Clayey Silt
- Sandy Clay/Clayey Sand
- Silty Sand
- Fine Sand
- Medium Sand
- Coarse Sand
- Fill/Backfill
- Decomposed Rock/Bedrock

PARTNERS ENVIRONMENTAL

PARTNERS ENVIRONMENTAL CONSULTING, INC

SOIL BOREHOLE / TEMPORARY WELL CONSTRUCTION LOG

MW-01

1 of 1

Client:	CCLRC-12500 Euclid Avenue	Location:	See site map
Date Drilled:	10/26/2021	Total Depth:	13 feet
Drilling Method:	Direct Push	Casing Elevation:	Not Applicable
Drilling Company:	EnviroCore	Top of Water:	NA (encounter) / 10.6 ft bgs (completion)
Driller:	Cody	Backfill Material:	Monitoring Well
Geologist:	Tom Weir		

Depth	Sample Type & Identification	SPT Blows Per 0.5 feet	Recovery (%)	PID/FID Readings	Profile	Geologic Description	USCS Soil Classification	Annular Materials	Profile	Well Materials
2.0	0-2'	NA	60%	1.5		ASPHALT (3") GRAVEL BASE (5")		Bentonite		1-inch PVC well riser
4.0	2-4'	NA	60%	0.7						
6.0	**4-6'**	**NA**	**70%**	**0.6**		Brown fine SAND with varying amounts of silt, moist, no odors or staining.	SP			
8.0	6-8'	NA	70%	1.0				Sand filter pack		
10.0	**8-10'**	**NA**	**80%**	**1.5**		Gray CLAY with black mottles, moist, no odors or staining. (8.2 to 8.8 feet)	CL			1-inch PVC well screen
12.0	10-12'	NA	80%	0.9		Brown fine to medium SAND with some gravel, moist to very moist, no odors or staining.	SP			
14.0						Direct Push sampling terminated at 12 feet bgs.				
16.0						1-inch diameter PVC well with a 5-foot screen set at a depth of approximately 13 feet bgs with expendable point tooling.				
18.0						Temporary well removed and borehole sealed with bentonite upon completion of groundwater sampling.				
20.0										
22.0										
24.0										

LEGEND

- Clay/Silty Clay
- Silt
- Sandy Clay
- Coarse Sand
- Silty Sand
- Medium Sand
- Fine Sand
- Backfill

N/A = Not applicable

- ▼ Static Water Level
- ▽ Initial Water Level

PARTNERS ENVIRONMENTAL CONSULTING, INC

SOIL BOREHOLE / TEMPORARY WELL CONSTRUCTION LOG — **TMW-02**

1 of 1

Client:	CCLRC-12500 Euclid Avenue	Location:	See site map
Date Drilled:	10/26/2021	Total Depth:	11.5 feet
Drilling Method:	Direct Push	Casing Elevation:	Not Applicable
Drilling Company:	EnviroCore	Top of Water:	9.7 ft bgs (encounter) / 10.6 ft bgs (completion)
Driller:	Cody	Backfill Material:	Monitoring Well
Geologist:	Tom Weir		

Depth	Sample Type & Identification	SPT Blows Per 0.5 feet	Recovery (%)	PID/FID Readings	Profile	Geologic Description	USCS Soil Classification	Annular Materials	Profile	Well Materials
	0-2'	**NA**	**50%**	**1.4**		ASPHALT (3") GRAVEL BASE (2")		Bentonite		1-inch PVC well riser
2.0	**2-4'**	**NA**	**50%**	**0.7**						
4.0	4-6'	NA	60%	0.5		Brown fine SAND with varying amounts of silt, stiff sandy clay seam (2") at 7.5 feet, very loose and wet from 9.7 to 10.8 feet, no odors or staining.	SP	Sand filter pack		
6.0	6-8'	NA	60%	0.7						
8.0	8-10'	NA	50%	0.4						1-inch PVC well screen
10.0	10-12'	NA	30%	0.5		(10.8 feet)				
						Weathered gray SHALE, dry, no odors or staining.				
12.0										
14.0						Direct Push sampling terminated at 11.5 feet bgs due to refusal.				
16.0						1-inch diameter PVC well with a 5-foot screen set at a depth of approximately 11.5 feet bgs with expendable point tooling.				
18.0						Temporary well removed and borehole sealed with bentonite upon completion of groundwater sampling.				
20.0										
22.0										
24.0										

LEGEND

- Clay/Silty Clay
- Silt
- Sandy Clay
- Coarse Sand
- Silty Sand
- Medium Sand
- Fine Sand
- Backfill

N/A = Not applicable

▼ Static Water Level

▽ Initial Water Level

APPENDIX C
LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

December 13, 2021

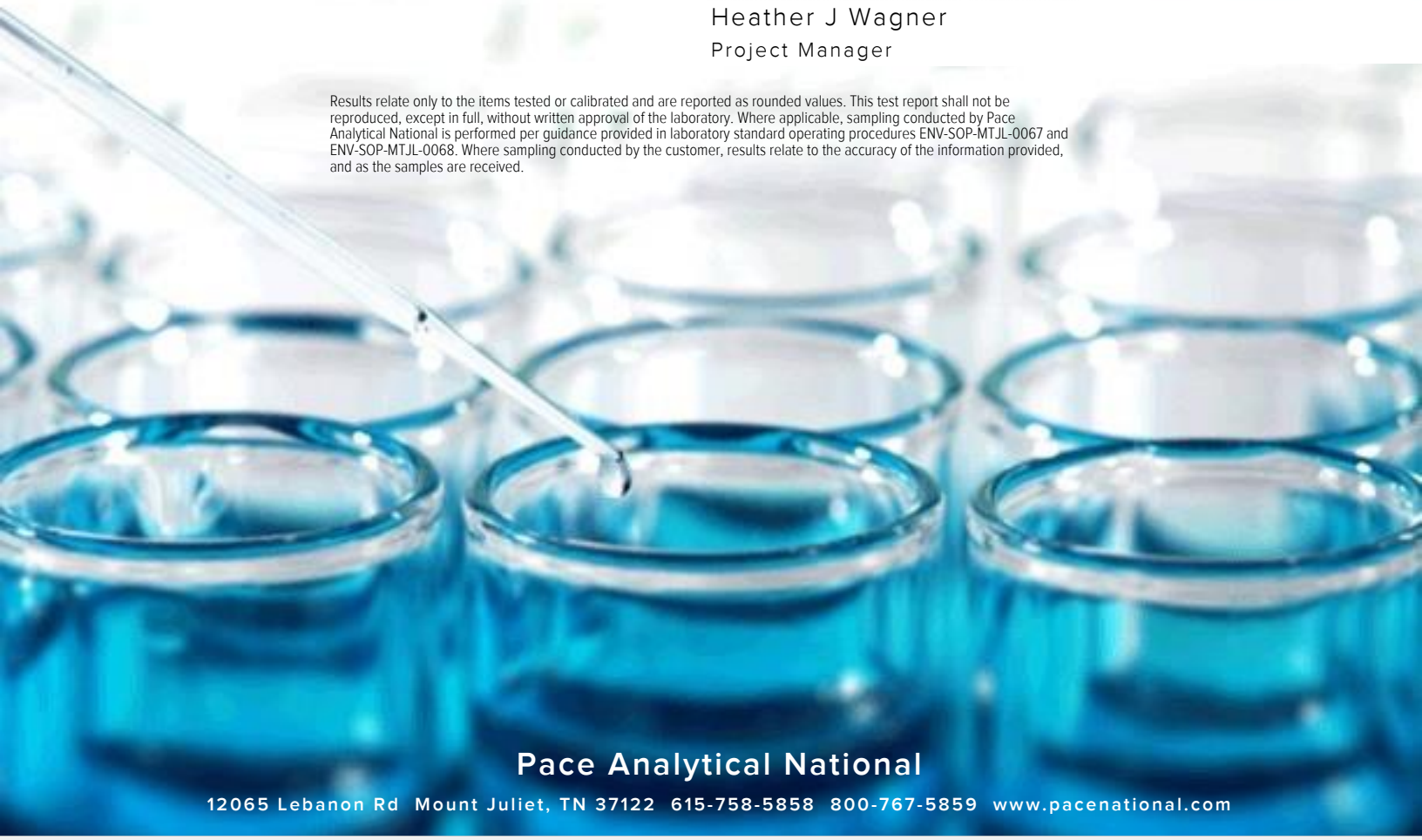
Revised Report

Partners Environmental Consulting

Sample Delivery Group:	L1424325
Samples Received:	10/29/2021
Project Number:	896.118
Description:	CCLRC-12500 Euclis Avenue
Report To:	Valerie Weir
	31100 Solon Road, Ste. G
	Solon, OH 44139

Entire Report Reviewed By:

Heather J Wagner
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SB-01 (2-4FT) L1424325-01 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766883	1	11/02/21 12:03	11/02/21 12:12	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/30/21 23:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1767559	1	10/30/21 00:40	11/02/21 20:17	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	1	11/03/21 16:32	11/04/21 00:07	JAS	Mt. Juliet, TN

SB-01 (8-10FT) L1424325-02 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766883	1	11/02/21 12:03	11/02/21 12:12	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 00:04	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1767559	1	10/30/21 00:40	11/02/21 20:36	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	1	11/03/21 16:32	11/03/21 22:00	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1769931	1	11/07/21 14:42	11/08/21 03:21	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1769470	1	11/05/21 13:04	11/05/21 18:46	AAT	Mt. Juliet, TN

SB-02 (0-2FT) L1424325-03 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766883	1	11/02/21 12:03	11/02/21 12:12	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 00:26	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1767559	1	10/30/21 00:40	11/02/21 20:55	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	1	11/03/21 16:32	11/04/21 00:20	JAS	Mt. Juliet, TN

SB-02 (6-8FT) L1424325-04 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766883	1	11/02/21 12:03	11/02/21 12:12	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 05:33	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1767559	1	10/30/21 00:40	11/02/21 21:14	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	1	11/03/21 16:32	11/03/21 22:13	JAS	Mt. Juliet, TN

SB-03 (0-2FT) L1424325-05 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766883	1	11/02/21 12:03	11/02/21 12:12	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 00:48	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1768143	1	10/30/21 00:40	11/03/21 22:34	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	1	11/03/21 16:32	11/04/21 00:32	JAS	Mt. Juliet, TN

SB-03 (6-8FT) L1424325-06 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766883	1	11/02/21 12:03	11/02/21 12:12	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 01:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1768143	1	10/30/21 00:40	11/03/21 22:53	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	1	11/03/21 16:32	11/03/21 22:25	JAS	Mt. Juliet, TN

SB-03 (6-8FT) L1424325-06 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Polychlorinated Biphenyls (GC) by Method 8082	WG1769931	1	11/07/21 14:42	11/08/21 03:32	JMB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1769470	1	11/05/21 13:04	11/05/21 19:04	AAT	Mt. Juliet, TN

SB-04 (4-6FT) L1424325-07 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766883	1	11/02/21 12:03	11/02/21 12:12	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 01:32	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1768143	1	10/30/21 00:40	11/03/21 23:12	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	1	11/03/21 16:32	11/03/21 22:38	JAS	Mt. Juliet, TN

SB-04 (6-8FT) L1424325-08 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766883	1	11/02/21 12:03	11/02/21 12:12	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 01:54	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1768143	1	10/30/21 00:40	11/03/21 23:31	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	1	11/03/21 16:32	11/03/21 22:51	JAS	Mt. Juliet, TN

SB-05 (6-8FT) L1424325-09 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766883	1	11/02/21 12:03	11/02/21 12:12	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 02:16	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1768143	1	10/30/21 00:40	11/03/21 23:50	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	10	11/03/21 16:32	11/04/21 01:10	JAS	Mt. Juliet, TN

SB-05 (8-10FT) L1424325-10 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766889	1	11/02/21 11:53	11/02/21 12:00	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 02:38	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1768143	1	10/30/21 00:40	11/04/21 00:09	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	10	11/03/21 16:32	11/04/21 00:58	JAS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	20	11/03/21 16:32	11/04/21 10:55	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1769931	1	11/07/21 14:42	11/08/21 03:42	JMB	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1769931	5	11/07/21 14:42	11/10/21 16:28	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1769470	1	11/05/21 13:04	11/05/21 20:15	AAT	Mt. Juliet, TN

SB-05 (8-10FT) DUPLICATE L1424325-11 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766889	1	11/02/21 11:53	11/02/21 12:00	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 03:00	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1768143	1	10/30/21 00:40	11/04/21 00:28	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1783638	25	12/03/21 18:20	12/04/21 14:21	JAS	Mt. Juliet, TN

SB-05 (8-10FT) DUPLICATE L1424325-11 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1783638	5	12/03/21 18:20	12/04/21 10:36	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1769931	1	11/07/21 14:42	11/08/21 03:52	JMB	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1769931	2	11/07/21 14:42	11/10/21 16:19	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1769470	1	11/05/21 13:04	11/05/21 21:10	AAT	Mt. Juliet, TN

SB-06 (0-2FT) L1424325-12 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766889	1	11/02/21 11:53	11/02/21 12:00	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 03:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1768143	1	10/30/21 00:40	11/04/21 00:47	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1783638	1	12/03/21 18:20	12/04/21 13:56	JAS	Mt. Juliet, TN

SB-06 (8-10FT) L1424325-13 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766889	1	11/02/21 11:53	11/02/21 12:00	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 03:44	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1768143	1	10/30/21 00:40	11/04/21 01:06	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	1	11/03/21 16:32	11/03/21 23:03	JAS	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1769931	1	11/07/21 14:42	11/08/21 04:03	JMB	Mt. Juliet, TN

MW-01 (4-6FT) L1424325-14 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766889	1	11/02/21 11:53	11/02/21 12:00	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 04:06	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1768143	1	10/30/21 00:40	11/04/21 01:25	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	1	11/03/21 16:32	11/03/21 23:16	JAS	Mt. Juliet, TN

MW-01 (8-10FT) L1424325-15 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766889	1	11/02/21 11:53	11/02/21 12:00	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 04:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1768143	1	10/30/21 00:40	11/04/21 01:44	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	1	11/03/21 16:32	11/03/21 23:29	JAS	Mt. Juliet, TN

MW-02 (0-2FT) L1424325-16 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766889	1	11/02/21 11:53	11/02/21 12:00	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 04:49	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1768143	1	10/30/21 00:40	11/04/21 02:03	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	1	11/03/21 16:32	11/04/21 00:45	JAS	Mt. Juliet, TN

MW-02 (2-4FT) L1424325-17 Solid

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1766889	1	11/02/21 11:53	11/02/21 12:00	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015B	WG1766195	25	10/30/21 00:40	10/31/21 05:11	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1768143	1	10/30/21 00:40	11/04/21 02:22	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015B	WG1768215	1	11/03/21 16:32	11/03/21 23:41	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1769470	1	11/05/21 13:04	11/05/21 21:27	AAT	Mt. Juliet, TN

MW-01 L1424325-18 GW

Collected by: Tom Weir | Collected date/time: 10/27/21 14:32 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1766535	1	10/31/21 19:19	10/31/21 19:19	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1768174	1	11/03/21 23:50	11/03/21 23:50	BMB	Mt. Juliet, TN

MW-01 DUPLICATE L1424325-19 GW

Collected by: Tom Weir | Collected date/time: 10/27/21 14:32 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1769883	1	11/06/21 15:34	11/06/21 15:34	BMB	Mt. Juliet, TN

MW-02 L1424325-20 GW

Collected by: Tom Weir | Collected date/time: 10/27/21 14:58 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1769883	1	11/06/21 15:55	11/06/21 15:55	BMB	Mt. Juliet, TN

EQP-102621 L1424325-21 GW

Collected by: Tom Weir | Collected date/time: 10/26/21 15:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1767486	1	11/02/21 20:29	11/02/21 20:29	ACG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1770725	1	11/05/21 06:37	11/05/21 20:51	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1766300	1	11/02/21 16:47	11/02/21 23:13	AAT	Mt. Juliet, TN

EQP-102721 L1424325-22 GW

Collected by: Tom Weir | Collected date/time: 10/27/21 13:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1769883	1	11/06/21 16:15	11/06/21 16:15	BMB	Mt. Juliet, TN

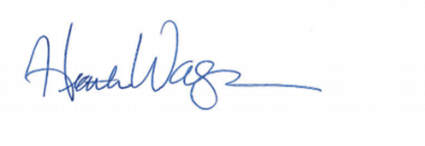
TRIP-102621 L1424325-23 GW

Collected by: Tom Weir | Collected date/time: 10/26/21 00:00 | Received date/time: 10/29/21 13:50

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1767486	1	11/02/21 15:44	11/02/21 15:44	ACG	Mt. Juliet, TN

CASE NARRATIVE

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



Heather J Wagner
Project Manager

Report Revision History

Level II Report - Version 1: 11/11/21 10:22

Project Narrative

Revised Report: Revised to report the resuls from a re-analysis of samples SB-05 (8-10FT) DUPLICATE (L1424325-11) and SB-06 (0-2FT) (L1424325-12). The samples were re-analyzed to confirm sample ID and these samples were determined to have been switched during sample prep at the lab. This report replaces the report issued 11/11/2021.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.4		1	11/02/2021 12:12	WG1766883

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	U		1.12	3.31	25	10/30/2021 23:42	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*77.0-120*		*10/30/2021 23:42*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0483	0.0662	1	11/02/2021 20:17	WG1767559
Acrylonitrile	U		0.00478	0.0165	1	11/02/2021 20:17	WG1767559
Benzene	U		0.000618	0.00132	1	11/02/2021 20:17	WG1767559
Bromobenzene	U		0.00119	0.0165	1	11/02/2021 20:17	WG1767559
Bromodichloromethane	U		0.000960	0.00331	1	11/02/2021 20:17	WG1767559
Bromoform	U		0.00155	0.0331	1	11/02/2021 20:17	WG1767559
Bromomethane	U		0.00261	0.0165	1	11/02/2021 20:17	WG1767559
n-Butylbenzene	U		0.00695	0.0165	1	11/02/2021 20:17	WG1767559
sec-Butylbenzene	U		0.00381	0.0165	1	11/02/2021 20:17	WG1767559
tert-Butylbenzene	U		0.00258	0.00662	1	11/02/2021 20:17	WG1767559
Carbon tetrachloride	U		0.00119	0.00662	1	11/02/2021 20:17	WG1767559
Chlorobenzene	U		0.000278	0.00331	1	11/02/2021 20:17	WG1767559
Chlorodibromomethane	U		0.000810	0.00331	1	11/02/2021 20:17	WG1767559
Chloroethane	U		0.00225	0.00662	1	11/02/2021 20:17	WG1767559
Chloroform	U		0.00136	0.00331	1	11/02/2021 20:17	WG1767559
Chloromethane	U		0.00576	0.0165	1	11/02/2021 20:17	WG1767559
2-Chlorotoluene	U		0.00115	0.00331	1	11/02/2021 20:17	WG1767559
4-Chlorotoluene	U		0.000596	0.00662	1	11/02/2021 20:17	WG1767559
1,2-Dibromo-3-Chloropropane	U		0.00516	0.0331	1	11/02/2021 20:17	WG1767559
1,2-Dibromoethane	U		0.000858	0.00331	1	11/02/2021 20:17	WG1767559
Dibromomethane	U		0.000993	0.00662	1	11/02/2021 20:17	WG1767559
1,2-Dichlorobenzene	U		0.000563	0.00662	1	11/02/2021 20:17	WG1767559
1,3-Dichlorobenzene	U		0.000794	0.00662	1	11/02/2021 20:17	WG1767559
1,4-Dichlorobenzene	U		0.000927	0.00662	1	11/02/2021 20:17	WG1767559
Dichlorodifluoromethane	U		0.00213	0.00331	1	11/02/2021 20:17	WG1767559
1,1-Dichloroethane	U		0.000650	0.00331	1	11/02/2021 20:17	WG1767559
1,2-Dichloroethane	U		0.000859	0.00331	1	11/02/2021 20:17	WG1767559
1,1-Dichloroethene	U		0.000802	0.00331	1	11/02/2021 20:17	WG1767559
cis-1,2-Dichloroethene	U		0.000972	0.00331	1	11/02/2021 20:17	WG1767559
trans-1,2-Dichloroethene	U		0.00138	0.00662	1	11/02/2021 20:17	WG1767559
1,2-Dichloropropane	U		0.00188	0.00662	1	11/02/2021 20:17	WG1767559
1,1-Dichloropropene	U		0.00107	0.00331	1	11/02/2021 20:17	WG1767559
1,3-Dichloropropane	U		0.000663	0.00662	1	11/02/2021 20:17	WG1767559
cis-1,3-Dichloropropene	U		0.00100	0.00331	1	11/02/2021 20:17	WG1767559
trans-1,3-Dichloropropene	U		0.00151	0.00662	1	11/02/2021 20:17	WG1767559
2,2-Dichloropropane	U		0.00183	0.00331	1	11/02/2021 20:17	WG1767559
Di-isopropyl ether	U		0.000543	0.00132	1	11/02/2021 20:17	WG1767559
Ethylbenzene	U		0.000976	0.00331	1	11/02/2021 20:17	WG1767559
Hexachloro-1,3-butadiene	U		0.00794	0.0331	1	11/02/2021 20:17	WG1767559
n-Hexane	U		0.00299	0.00662	1	11/02/2021 20:17	WG1767559
Isopropylbenzene	U		0.000563	0.00331	1	11/02/2021 20:17	WG1767559
p-Isopropyltoluene	U		0.00338	0.00662	1	11/02/2021 20:17	WG1767559
2-Butanone (MEK)	0.131	B J	0.0841	0.132	1	11/02/2021 20:17	WG1767559

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U		0.00879	0.0331	1	11/02/2021 20:17	WG1767559
4-Methyl-2-pentanone (MIBK)	U		0.00302	0.0331	1	11/02/2021 20:17	WG1767559
Methyl tert-butyl ether	U		0.000463	0.00132	1	11/02/2021 20:17	WG1767559
Naphthalene	U		0.00646	0.0165	1	11/02/2021 20:17	WG1767559
n-Propylbenzene	U		0.00126	0.00662	1	11/02/2021 20:17	WG1767559
Styrene	U		0.000303	0.0165	1	11/02/2021 20:17	WG1767559
1,1,1,2-Tetrachloroethane	U		0.00126	0.00331	1	11/02/2021 20:17	WG1767559
1,1,2,2-Tetrachloroethane	U		0.000920	0.00331	1	11/02/2021 20:17	WG1767559
Tetrachloroethene	U		0.00119	0.00331	1	11/02/2021 20:17	WG1767559
Toluene	U		0.00172	0.00662	1	11/02/2021 20:17	WG1767559
1,2,3-Trichlorobenzene	U		0.00970	0.0165	1	11/02/2021 20:17	WG1767559
1,2,4-Trichlorobenzene	U		0.00582	0.0165	1	11/02/2021 20:17	WG1767559
1,1,1-Trichloroethane	U		0.00122	0.00331	1	11/02/2021 20:17	WG1767559
1,1,2-Trichloroethane	U		0.000790	0.00331	1	11/02/2021 20:17	WG1767559
Trichloroethene	U		0.000773	0.00132	1	11/02/2021 20:17	WG1767559
Trichlorofluoromethane	U		0.00109	0.00331	1	11/02/2021 20:17	WG1767559
1,2,3-Trichloropropane	U		0.00214	0.0165	1	11/02/2021 20:17	WG1767559
1,2,4-Trimethylbenzene	U		0.00209	0.00662	1	11/02/2021 20:17	WG1767559
1,3,5-Trimethylbenzene	U		0.00265	0.00662	1	11/02/2021 20:17	WG1767559
Vinyl chloride	U		0.00154	0.00331	1	11/02/2021 20:17	WG1767559
Xylenes, Total	U		0.00116	0.00860	1	11/02/2021 20:17	WG1767559
(S) Toluene-d8	*101*			*75.0-131*		*11/02/2021 20:17*	WG1767559
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*		*11/02/2021 20:17*	WG1767559
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*11/02/2021 20:17*	WG1767559

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	0.793	J	0.698	4.58	1	11/04/2021 00:07	WG1768215
C20-C34 Hydrocarbons	3.68	J	0.699	4.58	1	11/04/2021 00:07	WG1768215
(S) o-Terphenyl	*62.6*			*18.0-148*		*11/04/2021 00:07*	WG1768215

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.6		1	11/02/2021 12:12	WG1766883

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	U		1.16	3.41	25	10/31/2021 00:04	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*94.5*			*77.0-120*		*10/31/2021 00:04*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0498	0.0683	1	11/02/2021 20:36	WG1767559
Acrylonitrile	U		0.00493	0.0171	1	11/02/2021 20:36	WG1767559
Benzene	U		0.000638	0.00137	1	11/02/2021 20:36	WG1767559
Bromobenzene	U		0.00123	0.0171	1	11/02/2021 20:36	WG1767559
Bromodichloromethane	U		0.000990	0.00341	1	11/02/2021 20:36	WG1767559
Bromoform	U		0.00160	0.0341	1	11/02/2021 20:36	WG1767559
Bromomethane	U		0.00269	0.0171	1	11/02/2021 20:36	WG1767559
n-Butylbenzene	U		0.00717	0.0171	1	11/02/2021 20:36	WG1767559
sec-Butylbenzene	U		0.00393	0.0171	1	11/02/2021 20:36	WG1767559
tert-Butylbenzene	U		0.00266	0.00683	1	11/02/2021 20:36	WG1767559
Carbon tetrachloride	U		0.00123	0.00683	1	11/02/2021 20:36	WG1767559
Chlorobenzene	U		0.000287	0.00341	1	11/02/2021 20:36	WG1767559
Chlorodibromomethane	U		0.000835	0.00341	1	11/02/2021 20:36	WG1767559
Chloroethane	U		0.00232	0.00683	1	11/02/2021 20:36	WG1767559
Chloroform	U		0.00141	0.00341	1	11/02/2021 20:36	WG1767559
Chloromethane	U		0.00594	0.0171	1	11/02/2021 20:36	WG1767559
2-Chlorotoluene	U		0.00118	0.00341	1	11/02/2021 20:36	WG1767559
4-Chlorotoluene	U		0.000614	0.00683	1	11/02/2021 20:36	WG1767559
1,2-Dibromo-3-Chloropropane	U		0.00532	0.0341	1	11/02/2021 20:36	WG1767559
1,2-Dibromoethane	U		0.000885	0.00341	1	11/02/2021 20:36	WG1767559
Dibromomethane	U		0.00102	0.00683	1	11/02/2021 20:36	WG1767559
1,2-Dichlorobenzene	U		0.000580	0.00683	1	11/02/2021 20:36	WG1767559
1,3-Dichlorobenzene	U		0.000819	0.00683	1	11/02/2021 20:36	WG1767559
1,4-Dichlorobenzene	U		0.000956	0.00683	1	11/02/2021 20:36	WG1767559
Dichlorodifluoromethane	U		0.00220	0.00341	1	11/02/2021 20:36	WG1767559
1,1-Dichloroethane	U		0.000670	0.00341	1	11/02/2021 20:36	WG1767559
1,2-Dichloroethane	U		0.000886	0.00341	1	11/02/2021 20:36	WG1767559
1,1-Dichloroethene	U		0.000827	0.00341	1	11/02/2021 20:36	WG1767559
cis-1,2-Dichloroethene	0.00586		0.00100	0.00341	1	11/02/2021 20:36	WG1767559
trans-1,2-Dichloroethene	U		0.00142	0.00683	1	11/02/2021 20:36	WG1767559
1,2-Dichloropropane	U		0.00194	0.00683	1	11/02/2021 20:36	WG1767559
1,1-Dichloropropene	U		0.00110	0.00341	1	11/02/2021 20:36	WG1767559
1,3-Dichloropropane	U		0.000684	0.00683	1	11/02/2021 20:36	WG1767559
cis-1,3-Dichloropropene	U		0.00103	0.00341	1	11/02/2021 20:36	WG1767559
trans-1,3-Dichloropropene	U		0.00156	0.00683	1	11/02/2021 20:36	WG1767559
2,2-Dichloropropane	U		0.00188	0.00341	1	11/02/2021 20:36	WG1767559
Di-isopropyl ether	U		0.000560	0.00137	1	11/02/2021 20:36	WG1767559
Ethylbenzene	U		0.00101	0.00341	1	11/02/2021 20:36	WG1767559
Hexachloro-1,3-butadiene	U		0.00819	0.0341	1	11/02/2021 20:36	WG1767559
n-Hexane	U		0.00309	0.00683	1	11/02/2021 20:36	WG1767559
Isopropylbenzene	U		0.000580	0.00341	1	11/02/2021 20:36	WG1767559
p-Isopropyltoluene	U		0.00348	0.00683	1	11/02/2021 20:36	WG1767559
2-Butanone (MEK)	U		0.0867	0.137	1	11/02/2021 20:36	WG1767559

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U		0.00906	0.0341	1	11/02/2021 20:36	WG1767559
4-Methyl-2-pentanone (MIBK)	U		0.00311	0.0341	1	11/02/2021 20:36	WG1767559
Methyl tert-butyl ether	U		0.000478	0.00137	1	11/02/2021 20:36	WG1767559
Naphthalene	U		0.00666	0.0171	1	11/02/2021 20:36	WG1767559
n-Propylbenzene	U		0.00130	0.00683	1	11/02/2021 20:36	WG1767559
Styrene	U		0.000313	0.0171	1	11/02/2021 20:36	WG1767559
1,1,1,2-Tetrachloroethane	U		0.00129	0.00341	1	11/02/2021 20:36	WG1767559
1,1,2,2-Tetrachloroethane	U		0.000949	0.00341	1	11/02/2021 20:36	WG1767559
Tetrachloroethene	U		0.00122	0.00341	1	11/02/2021 20:36	WG1767559
Toluene	U		0.00177	0.00683	1	11/02/2021 20:36	WG1767559
1,2,3-Trichlorobenzene	U		0.0100	0.0171	1	11/02/2021 20:36	WG1767559
1,2,4-Trichlorobenzene	U		0.00601	0.0171	1	11/02/2021 20:36	WG1767559
1,1,1-Trichloroethane	U		0.00126	0.00341	1	11/02/2021 20:36	WG1767559
1,1,2-Trichloroethane	U		0.000815	0.00341	1	11/02/2021 20:36	WG1767559
Trichloroethene	0.133		0.000797	0.00137	1	11/02/2021 20:36	WG1767559
Trichlorofluoromethane	U		0.00113	0.00341	1	11/02/2021 20:36	WG1767559
1,2,3-Trichloropropane	U		0.00221	0.0171	1	11/02/2021 20:36	WG1767559
1,2,4-Trimethylbenzene	U		0.00216	0.00683	1	11/02/2021 20:36	WG1767559
1,3,5-Trimethylbenzene	U		0.00273	0.00683	1	11/02/2021 20:36	WG1767559
Vinyl chloride	U		0.00158	0.00341	1	11/02/2021 20:36	WG1767559
Xylenes, Total	U		0.00120	0.00887	1	11/02/2021 20:36	WG1767559
(S) Toluene-d8	*101*			*75.0-131*		*11/02/2021 20:36*	WG1767559
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/02/2021 20:36*	WG1767559
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/02/2021 20:36*	WG1767559

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	0.714	J	0.712	4.67	1	11/03/2021 22:00	WG1768215
C20-C34 Hydrocarbons	1.88	J	0.714	4.67	1	11/03/2021 22:00	WG1768215
(S) o-Terphenyl	*51.9*			*18.0-148*		*11/03/2021 22:00*	WG1768215

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0138	0.0397	1	11/08/2021 03:21	WG1769931
PCB 1221	U		0.0138	0.0397	1	11/08/2021 03:21	WG1769931
PCB 1232	U		0.0138	0.0397	1	11/08/2021 03:21	WG1769931
PCB 1242	U		0.0138	0.0397	1	11/08/2021 03:21	WG1769931
PCB 1248	U		0.00862	0.0199	1	11/08/2021 03:21	WG1769931
PCB 1254	U		0.00862	0.0199	1	11/08/2021 03:21	WG1769931
PCB 1260	0.0321		0.00862	0.0199	1	11/08/2021 03:21	WG1769931
(S) Decachlorobiphenyl	*65.9*			*10.0-135*		*11/08/2021 03:21*	WG1769931
(S) Tetrachloro-m-xylene	*75.6*			*10.0-139*		*11/08/2021 03:21*	WG1769931

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00269	0.00701	1	11/05/2021 18:46	WG1769470
Acenaphthene	U		0.00244	0.00701	1	11/05/2021 18:46	WG1769470
Acenaphthylene	U		0.00252	0.00701	1	11/05/2021 18:46	WG1769470
Benzo(a)anthracene	0.00521	J	0.00202	0.00701	1	11/05/2021 18:46	WG1769470
Benzo(a)pyrene	0.00744		0.00209	0.00701	1	11/05/2021 18:46	WG1769470
Benzo(b)fluoranthene	0.0109		0.00179	0.00701	1	11/05/2021 18:46	WG1769470
Benzo(g,h,i)perylene	0.00830		0.00207	0.00701	1	11/05/2021 18:46	WG1769470

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(k)fluoranthene	0.00426	J	0.00251	0.00701	1	11/05/2021 18:46	WG1769470
Chrysene	0.00646	J	0.00271	0.00701	1	11/05/2021 18:46	WG1769470
Dibenz(a,h)anthracene	U		0.00201	0.00701	1	11/05/2021 18:46	WG1769470
Fluoranthene	0.00420	J	0.00265	0.00701	1	11/05/2021 18:46	WG1769470
Fluorene	U		0.00239	0.00701	1	11/05/2021 18:46	WG1769470
Indeno(1,2,3-cd)pyrene	0.00764		0.00211	0.00701	1	11/05/2021 18:46	WG1769470
Naphthalene	U		0.00477	0.0234	1	11/05/2021 18:46	WG1769470
Phenanthrene	U		0.00270	0.00701	1	11/05/2021 18:46	WG1769470
Pyrene	0.00437	J	0.00234	0.00701	1	11/05/2021 18:46	WG1769470
1-Methylnaphthalene	U		0.00524	0.0234	1	11/05/2021 18:46	WG1769470
2-Methylnaphthalene	U		0.00499	0.0234	1	11/05/2021 18:46	WG1769470
2-Chloronaphthalene	U		0.00544	0.0234	1	11/05/2021 18:46	WG1769470
(S) Nitrobenzene-d5	*68.6*			*14.0-149*		*11/05/2021 18:46*	WG1769470
(S) 2-Fluorobiphenyl	*83.7*			*34.0-125*		*11/05/2021 18:46*	WG1769470
(S) p-Terphenyl-d14	*103*			*23.0-120*		*11/05/2021 18:46*	WG1769470

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.4		1	11/02/2021 12:12	WG1766883

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	U		1.14	3.36	25	10/31/2021 00:26	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*77.0-120*		*10/31/2021 00:26*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0490	0.0671	1	11/02/2021 20:55	WG1767559
Acrylonitrile	U		0.00485	0.0168	1	11/02/2021 20:55	WG1767559
Benzene	U		0.000627	0.00134	1	11/02/2021 20:55	WG1767559
Bromobenzene	U		0.00121	0.0168	1	11/02/2021 20:55	WG1767559
Bromodichloromethane	U		0.000973	0.00336	1	11/02/2021 20:55	WG1767559
Bromoform	U		0.00157	0.0336	1	11/02/2021 20:55	WG1767559
Bromomethane	U		0.00264	0.0168	1	11/02/2021 20:55	WG1767559
n-Butylbenzene	U		0.00705	0.0168	1	11/02/2021 20:55	WG1767559
sec-Butylbenzene	U		0.00387	0.0168	1	11/02/2021 20:55	WG1767559
tert-Butylbenzene	U		0.00262	0.00671	1	11/02/2021 20:55	WG1767559
Carbon tetrachloride	U		0.00121	0.00671	1	11/02/2021 20:55	WG1767559
Chlorobenzene	U		0.000282	0.00336	1	11/02/2021 20:55	WG1767559
Chlorodibromomethane	U		0.000822	0.00336	1	11/02/2021 20:55	WG1767559
Chloroethane	U		0.00228	0.00671	1	11/02/2021 20:55	WG1767559
Chloroform	U		0.00138	0.00336	1	11/02/2021 20:55	WG1767559
Chloromethane	U		0.00584	0.0168	1	11/02/2021 20:55	WG1767559
2-Chlorotoluene	U		0.00116	0.00336	1	11/02/2021 20:55	WG1767559
4-Chlorotoluene	U		0.000604	0.00671	1	11/02/2021 20:55	WG1767559
1,2-Dibromo-3-Chloropropane	U		0.00524	0.0336	1	11/02/2021 20:55	WG1767559
1,2-Dibromoethane	U		0.000870	0.00336	1	11/02/2021 20:55	WG1767559
Dibromomethane	U		0.00101	0.00671	1	11/02/2021 20:55	WG1767559
1,2-Dichlorobenzene	U		0.000571	0.00671	1	11/02/2021 20:55	WG1767559
1,3-Dichlorobenzene	U		0.000805	0.00671	1	11/02/2021 20:55	WG1767559
1,4-Dichlorobenzene	U		0.000940	0.00671	1	11/02/2021 20:55	WG1767559
Dichlorodifluoromethane	U		0.00216	0.00336	1	11/02/2021 20:55	WG1767559
1,1-Dichloroethane	U		0.000659	0.00336	1	11/02/2021 20:55	WG1767559
1,2-Dichloroethane	U		0.000871	0.00336	1	11/02/2021 20:55	WG1767559
1,1-Dichloroethene	U		0.000813	0.00336	1	11/02/2021 20:55	WG1767559
cis-1,2-Dichloroethene	U		0.000985	0.00336	1	11/02/2021 20:55	WG1767559
trans-1,2-Dichloroethene	U		0.00140	0.00671	1	11/02/2021 20:55	WG1767559
1,2-Dichloropropane	U		0.00191	0.00671	1	11/02/2021 20:55	WG1767559
1,1-Dichloropropene	U		0.00109	0.00336	1	11/02/2021 20:55	WG1767559
1,3-Dichloropropane	U		0.000673	0.00671	1	11/02/2021 20:55	WG1767559
cis-1,3-Dichloropropene	U		0.00102	0.00336	1	11/02/2021 20:55	WG1767559
trans-1,3-Dichloropropene	U		0.00153	0.00671	1	11/02/2021 20:55	WG1767559
2,2-Dichloropropane	U		0.00185	0.00336	1	11/02/2021 20:55	WG1767559
Di-isopropyl ether	U		0.000550	0.00134	1	11/02/2021 20:55	WG1767559
Ethylbenzene	U		0.000989	0.00336	1	11/02/2021 20:55	WG1767559
Hexachloro-1,3-butadiene	U		0.00805	0.0336	1	11/02/2021 20:55	WG1767559
n-Hexane	U		0.00303	0.00671	1	11/02/2021 20:55	WG1767559
Isopropylbenzene	U		0.000571	0.00336	1	11/02/2021 20:55	WG1767559
p-Isopropyltoluene	U		0.00342	0.00671	1	11/02/2021 20:55	WG1767559
2-Butanone (MEK)	0.105	B J	0.0852	0.134	1	11/02/2021 20:55	WG1767559

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U		0.00891	0.0336	1	11/02/2021 20:55	WG1767559
4-Methyl-2-pentanone (MIBK)	U		0.00306	0.0336	1	11/02/2021 20:55	WG1767559
Methyl tert-butyl ether	U		0.000470	0.00134	1	11/02/2021 20:55	WG1767559
Naphthalene	U		0.00655	0.0168	1	11/02/2021 20:55	WG1767559
n-Propylbenzene	U		0.00128	0.00671	1	11/02/2021 20:55	WG1767559
Styrene	U		0.000307	0.0168	1	11/02/2021 20:55	WG1767559
1,1,1,2-Tetrachloroethane	U		0.00127	0.00336	1	11/02/2021 20:55	WG1767559
1,1,2,2-Tetrachloroethane	U		0.000933	0.00336	1	11/02/2021 20:55	WG1767559
Tetrachloroethene	U		0.00120	0.00336	1	11/02/2021 20:55	WG1767559
Toluene	U		0.00175	0.00671	1	11/02/2021 20:55	WG1767559
1,2,3-Trichlorobenzene	U		0.00984	0.0168	1	11/02/2021 20:55	WG1767559
1,2,4-Trichlorobenzene	U		0.00591	0.0168	1	11/02/2021 20:55	WG1767559
1,1,1-Trichloroethane	U		0.00124	0.00336	1	11/02/2021 20:55	WG1767559
1,1,2-Trichloroethane	U		0.000801	0.00336	1	11/02/2021 20:55	WG1767559
Trichloroethene	U		0.000784	0.00134	1	11/02/2021 20:55	WG1767559
Trichlorofluoromethane	U		0.00111	0.00336	1	11/02/2021 20:55	WG1767559
1,2,3-Trichloropropane	U		0.00217	0.0168	1	11/02/2021 20:55	WG1767559
1,2,4-Trimethylbenzene	U		0.00212	0.00671	1	11/02/2021 20:55	WG1767559
1,3,5-Trimethylbenzene	U		0.00268	0.00671	1	11/02/2021 20:55	WG1767559
Vinyl chloride	U		0.00156	0.00336	1	11/02/2021 20:55	WG1767559
Xylenes, Total	U		0.00118	0.00873	1	11/02/2021 20:55	WG1767559
(S) Toluene-d8	*102*			*75.0-131*		*11/02/2021 20:55*	WG1767559
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*		*11/02/2021 20:55*	WG1767559
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/02/2021 20:55*	WG1767559

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	0.995	J	0.698	4.57	1	11/04/2021 00:20	WG1768215
C20-C34 Hydrocarbons	4.62		0.699	4.57	1	11/04/2021 00:20	WG1768215
(S) o-Terphenyl	*60.4*			*18.0-148*		*11/04/2021 00:20*	WG1768215

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	11/02/2021 12:12	WG1766883

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	U		1.06	3.13	25	10/31/2021 05:33	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*77.0-120*		*10/31/2021 05:33*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0457	0.0626	1	11/02/2021 21:14	WG1767559
Acrylonitrile	U		0.00452	0.0157	1	11/02/2021 21:14	WG1767559
Benzene	U		0.000585	0.00125	1	11/02/2021 21:14	WG1767559
Bromobenzene	U		0.00113	0.0157	1	11/02/2021 21:14	WG1767559
Bromodichloromethane	U		0.000908	0.00313	1	11/02/2021 21:14	WG1767559
Bromoform	U		0.00147	0.0313	1	11/02/2021 21:14	WG1767559
Bromomethane	U		0.00247	0.0157	1	11/02/2021 21:14	WG1767559
n-Butylbenzene	U		0.00658	0.0157	1	11/02/2021 21:14	WG1767559
sec-Butylbenzene	U		0.00361	0.0157	1	11/02/2021 21:14	WG1767559
tert-Butylbenzene	U		0.00244	0.00626	1	11/02/2021 21:14	WG1767559
Carbon tetrachloride	U		0.00112	0.00626	1	11/02/2021 21:14	WG1767559
Chlorobenzene	U		0.000263	0.00313	1	11/02/2021 21:14	WG1767559
Chlorodibromomethane	U		0.000766	0.00313	1	11/02/2021 21:14	WG1767559
Chloroethane	U		0.00213	0.00626	1	11/02/2021 21:14	WG1767559
Chloroform	U		0.00129	0.00313	1	11/02/2021 21:14	WG1767559
Chloromethane	U		0.00545	0.0157	1	11/02/2021 21:14	WG1767559
2-Chlorotoluene	U		0.00108	0.00313	1	11/02/2021 21:14	WG1767559
4-Chlorotoluene	U		0.000564	0.00626	1	11/02/2021 21:14	WG1767559
1,2-Dibromo-3-Chloropropane	U		0.00488	0.0313	1	11/02/2021 21:14	WG1767559
1,2-Dibromoethane	U		0.000812	0.00313	1	11/02/2021 21:14	WG1767559
Dibromomethane	U		0.000939	0.00626	1	11/02/2021 21:14	WG1767559
1,2-Dichlorobenzene	U		0.000532	0.00626	1	11/02/2021 21:14	WG1767559
1,3-Dichlorobenzene	U		0.000751	0.00626	1	11/02/2021 21:14	WG1767559
1,4-Dichlorobenzene	U		0.000877	0.00626	1	11/02/2021 21:14	WG1767559
Dichlorodifluoromethane	U		0.00202	0.00313	1	11/02/2021 21:14	WG1767559
1,1-Dichloroethane	U		0.000615	0.00313	1	11/02/2021 21:14	WG1767559
1,2-Dichloroethane	U		0.000813	0.00313	1	11/02/2021 21:14	WG1767559
1,1-Dichloroethene	U		0.000759	0.00313	1	11/02/2021 21:14	WG1767559
cis-1,2-Dichloroethene	U		0.000919	0.00313	1	11/02/2021 21:14	WG1767559
trans-1,2-Dichloroethene	U		0.00130	0.00626	1	11/02/2021 21:14	WG1767559
1,2-Dichloropropane	U		0.00178	0.00626	1	11/02/2021 21:14	WG1767559
1,1-Dichloropropene	U		0.00101	0.00313	1	11/02/2021 21:14	WG1767559
1,3-Dichloropropane	U		0.000627	0.00626	1	11/02/2021 21:14	WG1767559
cis-1,3-Dichloropropene	U		0.000948	0.00313	1	11/02/2021 21:14	WG1767559
trans-1,3-Dichloropropene	U		0.00143	0.00626	1	11/02/2021 21:14	WG1767559
2,2-Dichloropropane	U		0.00173	0.00313	1	11/02/2021 21:14	WG1767559
Di-isopropyl ether	U		0.000513	0.00125	1	11/02/2021 21:14	WG1767559
Ethylbenzene	U		0.000923	0.00313	1	11/02/2021 21:14	WG1767559
Hexachloro-1,3-butadiene	U		0.00751	0.0313	1	11/02/2021 21:14	WG1767559
n-Hexane	U		0.00283	0.00626	1	11/02/2021 21:14	WG1767559
Isopropylbenzene	U		0.000532	0.00313	1	11/02/2021 21:14	WG1767559
p-Isopropyltoluene	U		0.00319	0.00626	1	11/02/2021 21:14	WG1767559
2-Butanone (MEK)	U		0.0795	0.125	1	11/02/2021 21:14	WG1767559

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U		0.00832	0.0313	1	11/02/2021 21:14	WG1767559
4-Methyl-2-pentanone (MIBK)	U		0.00286	0.0313	1	11/02/2021 21:14	WG1767559
Methyl tert-butyl ether	U		0.000438	0.00125	1	11/02/2021 21:14	WG1767559
Naphthalene	U		0.00611	0.0157	1	11/02/2021 21:14	WG1767559
n-Propylbenzene	U		0.00119	0.00626	1	11/02/2021 21:14	WG1767559
Styrene	U		0.000287	0.0157	1	11/02/2021 21:14	WG1767559
1,1,1,2-Tetrachloroethane	U		0.00119	0.00313	1	11/02/2021 21:14	WG1767559
1,1,2,2-Tetrachloroethane	U		0.000870	0.00313	1	11/02/2021 21:14	WG1767559
Tetrachloroethene	U		0.00112	0.00313	1	11/02/2021 21:14	WG1767559
Toluene	U		0.00163	0.00626	1	11/02/2021 21:14	WG1767559
1,2,3-Trichlorobenzene	U		0.00918	0.0157	1	11/02/2021 21:14	WG1767559
1,2,4-Trichlorobenzene	U		0.00551	0.0157	1	11/02/2021 21:14	WG1767559
1,1,1-Trichloroethane	U		0.00116	0.00313	1	11/02/2021 21:14	WG1767559
1,1,2-Trichloroethane	U		0.000748	0.00313	1	11/02/2021 21:14	WG1767559
Trichloroethene	U		0.000731	0.00125	1	11/02/2021 21:14	WG1767559
Trichlorofluoromethane	U		0.00104	0.00313	1	11/02/2021 21:14	WG1767559
1,2,3-Trichloropropane	U		0.00203	0.0157	1	11/02/2021 21:14	WG1767559
1,2,4-Trimethylbenzene	U		0.00198	0.00626	1	11/02/2021 21:14	WG1767559
1,3,5-Trimethylbenzene	U		0.00250	0.00626	1	11/02/2021 21:14	WG1767559
Vinyl chloride	U		0.00145	0.00313	1	11/02/2021 21:14	WG1767559
Xylenes, Total	U		0.00110	0.00814	1	11/02/2021 21:14	WG1767559
(S) Toluene-d8	*103*			*75.0-131*		*11/02/2021 21:14*	WG1767559
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*11/02/2021 21:14*	WG1767559
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/02/2021 21:14*	WG1767559

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	0.892	J	0.676	4.43	1	11/03/2021 22:13	WG1768215
C20-C34 Hydrocarbons	1.34	J	0.677	4.43	1	11/03/2021 22:13	WG1768215
(S) o-Terphenyl	*49.1*			*18.0-148*		*11/03/2021 22:13*	WG1768215

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.8		1	11/02/2021 12:12	WG1766883

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	U		1.02	3.02	25	10/31/2021 00:48	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*92.5*			*77.0-120*		*10/31/2021 00:48*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0441	0.0604	1	11/03/2021 22:34	WG1768143
Acrylonitrile	U		0.00436	0.0151	1	11/03/2021 22:34	WG1768143
Benzene	0.000986	J	0.000564	0.00121	1	11/03/2021 22:34	WG1768143
Bromobenzene	U		0.00109	0.0151	1	11/03/2021 22:34	WG1768143
Bromodichloromethane	U		0.000875	0.00302	1	11/03/2021 22:34	WG1768143
Bromoform	U		0.00141	0.0302	1	11/03/2021 22:34	WG1768143
Bromomethane	U		0.00238	0.0151	1	11/03/2021 22:34	WG1768143
n-Butylbenzene	U		0.00634	0.0151	1	11/03/2021 22:34	WG1768143
sec-Butylbenzene	U		0.00348	0.0151	1	11/03/2021 22:34	WG1768143
tert-Butylbenzene	U		0.00235	0.00604	1	11/03/2021 22:34	WG1768143
Carbon tetrachloride	0.00298	J	0.00108	0.00604	1	11/03/2021 22:34	WG1768143
Chlorobenzene	U		0.000253	0.00302	1	11/03/2021 22:34	WG1768143
Chlorodibromomethane	U		0.000739	0.00302	1	11/03/2021 22:34	WG1768143
Chloroethane	U		0.00205	0.00604	1	11/03/2021 22:34	WG1768143
Chloroform	U		0.00124	0.00302	1	11/03/2021 22:34	WG1768143
Chloromethane	U		0.00525	0.0151	1	11/03/2021 22:34	WG1768143
2-Chlorotoluene	U		0.00104	0.00302	1	11/03/2021 22:34	WG1768143
4-Chlorotoluene	U		0.000543	0.00604	1	11/03/2021 22:34	WG1768143
1,2-Dibromo-3-Chloropropane	U		0.00471	0.0302	1	11/03/2021 22:34	WG1768143
1,2-Dibromoethane	U		0.000782	0.00302	1	11/03/2021 22:34	WG1768143
Dibromomethane	U		0.000905	0.00604	1	11/03/2021 22:34	WG1768143
1,2-Dichlorobenzene	U		0.000513	0.00604	1	11/03/2021 22:34	WG1768143
1,3-Dichlorobenzene	U		0.000724	0.00604	1	11/03/2021 22:34	WG1768143
1,4-Dichlorobenzene	U		0.000845	0.00604	1	11/03/2021 22:34	WG1768143
Dichlorodifluoromethane	U		0.00194	0.00302	1	11/03/2021 22:34	WG1768143
1,1-Dichloroethane	U		0.000593	0.00302	1	11/03/2021 22:34	WG1768143
1,2-Dichloroethane	U		0.000783	0.00302	1	11/03/2021 22:34	WG1768143
1,1-Dichloroethene	U		0.000731	0.00302	1	11/03/2021 22:34	WG1768143
cis-1,2-Dichloroethene	U		0.000886	0.00302	1	11/03/2021 22:34	WG1768143
trans-1,2-Dichloroethene	U		0.00126	0.00604	1	11/03/2021 22:34	WG1768143
1,2-Dichloropropane	U		0.00171	0.00604	1	11/03/2021 22:34	WG1768143
1,1-Dichloropropene	U		0.000977	0.00302	1	11/03/2021 22:34	WG1768143
1,3-Dichloropropane	U		0.000605	0.00604	1	11/03/2021 22:34	WG1768143
cis-1,3-Dichloropropene	U		0.000914	0.00302	1	11/03/2021 22:34	WG1768143
trans-1,3-Dichloropropene	U		0.00138	0.00604	1	11/03/2021 22:34	WG1768143
2,2-Dichloropropane	U		0.00167	0.00302	1	11/03/2021 22:34	WG1768143
Di-isopropyl ether	U		0.000495	0.00121	1	11/03/2021 22:34	WG1768143
Ethylbenzene	0.00367		0.000890	0.00302	1	11/03/2021 22:34	WG1768143
Hexachloro-1,3-butadiene	U		0.00724	0.0302	1	11/03/2021 22:34	WG1768143
n-Hexane	U		0.00273	0.00604	1	11/03/2021 22:34	WG1768143
Isopropylbenzene	0.00403		0.000513	0.00302	1	11/03/2021 22:34	WG1768143
p-Isopropyltoluene	U		0.00308	0.00604	1	11/03/2021 22:34	WG1768143
2-Butanone (MEK)	U		0.0766	0.121	1	11/03/2021 22:34	WG1768143

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U	J4	0.00801	0.0302	1	11/03/2021 22:34	WG1768143
4-Methyl-2-pentanone (MIBK)	0.00356	J	0.00275	0.0302	1	11/03/2021 22:34	WG1768143
Methyl tert-butyl ether	U		0.000422	0.00121	1	11/03/2021 22:34	WG1768143
Naphthalene	0.0227		0.00589	0.0151	1	11/03/2021 22:34	WG1768143
n-Propylbenzene	0.00695		0.00115	0.00604	1	11/03/2021 22:34	WG1768143
Styrene	U		0.000276	0.0151	1	11/03/2021 22:34	WG1768143
1,1,1,2-Tetrachloroethane	U		0.00114	0.00302	1	11/03/2021 22:34	WG1768143
1,1,2,2-Tetrachloroethane	U		0.000839	0.00302	1	11/03/2021 22:34	WG1768143
Tetrachloroethene	0.00135	J	0.00108	0.00302	1	11/03/2021 22:34	WG1768143
Toluene	0.0110		0.00157	0.00604	1	11/03/2021 22:34	WG1768143
1,2,3-Trichlorobenzene	U		0.00885	0.0151	1	11/03/2021 22:34	WG1768143
1,2,4-Trichlorobenzene	U		0.00531	0.0151	1	11/03/2021 22:34	WG1768143
1,1,1-Trichloroethane	0.0295		0.00111	0.00302	1	11/03/2021 22:34	WG1768143
1,1,2-Trichloroethane	U		0.000721	0.00302	1	11/03/2021 22:34	WG1768143
Trichloroethene	0.0190		0.000705	0.00121	1	11/03/2021 22:34	WG1768143
Trichlorofluoromethane	U		0.000998	0.00302	1	11/03/2021 22:34	WG1768143
1,2,3-Trichloropropane	U		0.00196	0.0151	1	11/03/2021 22:34	WG1768143
1,2,4-Trimethylbenzene	0.00993		0.00191	0.00604	1	11/03/2021 22:34	WG1768143
1,3,5-Trimethylbenzene	U		0.00241	0.00604	1	11/03/2021 22:34	WG1768143
Vinyl chloride	U		0.00140	0.00302	1	11/03/2021 22:34	WG1768143
Xylenes, Total	0.0302		0.00106	0.00785	1	11/03/2021 22:34	WG1768143
(S) Toluene-d8	*101*			*75.0-131*		*11/03/2021 22:34*	WG1768143
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/03/2021 22:34*	WG1768143
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*11/03/2021 22:34*	WG1768143

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	8.64		0.665	4.36	1	11/04/2021 00:32	WG1768215
C20-C34 Hydrocarbons	24.7		0.666	4.36	1	11/04/2021 00:32	WG1768215
(S) o-Terphenyl	*69.9*			*18.0-148*		*11/04/2021 00:32*	WG1768215

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.8		1	11/02/2021 12:12	WG1766883

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	U		1.11	3.28	25	10/31/2021 01:10	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*94.8*			*77.0-120*		*10/31/2021 01:10*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0479	0.0657	1	11/03/2021 22:53	WG1768143
Acrylonitrile	U		0.00474	0.0164	1	11/03/2021 22:53	WG1768143
Benzene	U		0.000613	0.00131	1	11/03/2021 22:53	WG1768143
Bromobenzene	U		0.00118	0.0164	1	11/03/2021 22:53	WG1768143
Bromodichloromethane	U		0.000952	0.00328	1	11/03/2021 22:53	WG1768143
Bromoform	U		0.00154	0.0328	1	11/03/2021 22:53	WG1768143
Bromomethane	U		0.00259	0.0164	1	11/03/2021 22:53	WG1768143
n-Butylbenzene	U		0.00690	0.0164	1	11/03/2021 22:53	WG1768143
sec-Butylbenzene	U		0.00378	0.0164	1	11/03/2021 22:53	WG1768143
tert-Butylbenzene	U		0.00256	0.00657	1	11/03/2021 22:53	WG1768143
Carbon tetrachloride	U		0.00118	0.00657	1	11/03/2021 22:53	WG1768143
Chlorobenzene	U		0.000276	0.00328	1	11/03/2021 22:53	WG1768143
Chlorodibromomethane	U		0.000804	0.00328	1	11/03/2021 22:53	WG1768143
Chloroethane	U		0.00223	0.00657	1	11/03/2021 22:53	WG1768143
Chloroform	U		0.00135	0.00328	1	11/03/2021 22:53	WG1768143
Chloromethane	U		0.00571	0.0164	1	11/03/2021 22:53	WG1768143
2-Chlorotoluene	U		0.00114	0.00328	1	11/03/2021 22:53	WG1768143
4-Chlorotoluene	U		0.000591	0.00657	1	11/03/2021 22:53	WG1768143
1,2-Dibromo-3-Chloropropane	U		0.00512	0.0328	1	11/03/2021 22:53	WG1768143
1,2-Dibromoethane	U		0.000851	0.00328	1	11/03/2021 22:53	WG1768143
Dibromomethane	U		0.000985	0.00657	1	11/03/2021 22:53	WG1768143
1,2-Dichlorobenzene	U		0.000558	0.00657	1	11/03/2021 22:53	WG1768143
1,3-Dichlorobenzene	U		0.000788	0.00657	1	11/03/2021 22:53	WG1768143
1,4-Dichlorobenzene	U		0.000919	0.00657	1	11/03/2021 22:53	WG1768143
Dichlorodifluoromethane	U		0.00211	0.00328	1	11/03/2021 22:53	WG1768143
1,1-Dichloroethane	U		0.000645	0.00328	1	11/03/2021 22:53	WG1768143
1,2-Dichloroethane	U		0.000852	0.00328	1	11/03/2021 22:53	WG1768143
1,1-Dichloroethene	U		0.000796	0.00328	1	11/03/2021 22:53	WG1768143
cis-1,2-Dichloroethene	U		0.000964	0.00328	1	11/03/2021 22:53	WG1768143
trans-1,2-Dichloroethene	U		0.00137	0.00657	1	11/03/2021 22:53	WG1768143
1,2-Dichloropropane	U		0.00187	0.00657	1	11/03/2021 22:53	WG1768143
1,1-Dichloropropene	U		0.00106	0.00328	1	11/03/2021 22:53	WG1768143
1,3-Dichloropropane	U		0.000658	0.00657	1	11/03/2021 22:53	WG1768143
cis-1,3-Dichloropropene	U		0.000994	0.00328	1	11/03/2021 22:53	WG1768143
trans-1,3-Dichloropropene	U		0.00150	0.00657	1	11/03/2021 22:53	WG1768143
2,2-Dichloropropane	U		0.00181	0.00328	1	11/03/2021 22:53	WG1768143
Di-isopropyl ether	U		0.000539	0.00131	1	11/03/2021 22:53	WG1768143
Ethylbenzene	U		0.000968	0.00328	1	11/03/2021 22:53	WG1768143
Hexachloro-1,3-butadiene	U		0.00788	0.0328	1	11/03/2021 22:53	WG1768143
n-Hexane	U		0.00297	0.00657	1	11/03/2021 22:53	WG1768143
Isopropylbenzene	U		0.000558	0.00328	1	11/03/2021 22:53	WG1768143
p-Isopropyltoluene	U		0.00335	0.00657	1	11/03/2021 22:53	WG1768143
2-Butanone (MEK)	0.0841	B J	0.0834	0.131	1	11/03/2021 22:53	WG1768143

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U	J4	0.00872	0.0328	1	11/03/2021 22:53	WG1768143
4-Methyl-2-pentanone (MIBK)	U		0.00299	0.0328	1	11/03/2021 22:53	WG1768143
Methyl tert-butyl ether	U		0.000460	0.00131	1	11/03/2021 22:53	WG1768143
Naphthalene	U		0.00641	0.0164	1	11/03/2021 22:53	WG1768143
n-Propylbenzene	U		0.00125	0.00657	1	11/03/2021 22:53	WG1768143
Styrene	U		0.000301	0.0164	1	11/03/2021 22:53	WG1768143
1,1,1,2-Tetrachloroethane	U		0.00125	0.00328	1	11/03/2021 22:53	WG1768143
1,1,2,2-Tetrachloroethane	U		0.000913	0.00328	1	11/03/2021 22:53	WG1768143
Tetrachloroethene	U		0.00118	0.00328	1	11/03/2021 22:53	WG1768143
Toluene	U		0.00171	0.00657	1	11/03/2021 22:53	WG1768143
1,2,3-Trichlorobenzene	U		0.00963	0.0164	1	11/03/2021 22:53	WG1768143
1,2,4-Trichlorobenzene	U		0.00578	0.0164	1	11/03/2021 22:53	WG1768143
1,1,1-Trichloroethane	U		0.00121	0.00328	1	11/03/2021 22:53	WG1768143
1,1,2-Trichloroethane	U		0.000784	0.00328	1	11/03/2021 22:53	WG1768143
Trichloroethene	U		0.000767	0.00131	1	11/03/2021 22:53	WG1768143
Trichlorofluoromethane	U		0.00109	0.00328	1	11/03/2021 22:53	WG1768143
1,2,3-Trichloropropane	U		0.00213	0.0164	1	11/03/2021 22:53	WG1768143
1,2,4-Trimethylbenzene	U		0.00208	0.00657	1	11/03/2021 22:53	WG1768143
1,3,5-Trimethylbenzene	U		0.00263	0.00657	1	11/03/2021 22:53	WG1768143
Vinyl chloride	U		0.00152	0.00328	1	11/03/2021 22:53	WG1768143
Xylenes, Total	U		0.00116	0.00854	1	11/03/2021 22:53	WG1768143
(S) Toluene-d8	*102*			*75.0-131*		*11/03/2021 22:53*	WG1768143
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/03/2021 22:53*	WG1768143
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/03/2021 22:53*	WG1768143

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	U		0.695	4.56	1	11/03/2021 22:25	WG1768215
C20-C34 Hydrocarbons	0.761	J	0.696	4.56	1	11/03/2021 22:25	WG1768215
(S) o-Terphenyl	*58.3*			*18.0-148*		*11/03/2021 22:25*	WG1768215

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0134	0.0387	1	11/08/2021 03:32	WG1769931
PCB 1221	U		0.0134	0.0387	1	11/08/2021 03:32	WG1769931
PCB 1232	U		0.0134	0.0387	1	11/08/2021 03:32	WG1769931
PCB 1242	U		0.0134	0.0387	1	11/08/2021 03:32	WG1769931
PCB 1248	U		0.00841	0.0194	1	11/08/2021 03:32	WG1769931
PCB 1254	U		0.00841	0.0194	1	11/08/2021 03:32	WG1769931
PCB 1260	U		0.00841	0.0194	1	11/08/2021 03:32	WG1769931
(S) Decachlorobiphenyl	*87.2*			*10.0-135*		*11/08/2021 03:32*	WG1769931
(S) Tetrachloro-m-xylene	*86.7*			*10.0-139*		*11/08/2021 03:32*	WG1769931

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00262	0.00684	1	11/05/2021 19:04	WG1769470
Acenaphthene	U		0.00238	0.00684	1	11/05/2021 19:04	WG1769470
Acenaphthylene	U		0.00246	0.00684	1	11/05/2021 19:04	WG1769470
Benzo(a)anthracene	U		0.00197	0.00684	1	11/05/2021 19:04	WG1769470
Benzo(a)pyrene	U		0.00204	0.00684	1	11/05/2021 19:04	WG1769470
Benzo(b)fluoranthene	U		0.00174	0.00684	1	11/05/2021 19:04	WG1769470
Benzo(g,h,i)perylene	U		0.00202	0.00684	1	11/05/2021 19:04	WG1769470

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(k)fluoranthene	U		0.00245	0.00684	1	11/05/2021 19:04	WG1769470
Chrysene	U		0.00264	0.00684	1	11/05/2021 19:04	WG1769470
Dibenz(a,h)anthracene	U		0.00196	0.00684	1	11/05/2021 19:04	WG1769470
Fluoranthene	U		0.00259	0.00684	1	11/05/2021 19:04	WG1769470
Fluorene	U		0.00234	0.00684	1	11/05/2021 19:04	WG1769470
Indeno(1,2,3-cd)pyrene	U		0.00206	0.00684	1	11/05/2021 19:04	WG1769470
Naphthalene	U		0.00465	0.0228	1	11/05/2021 19:04	WG1769470
Phenanthrene	U		0.00263	0.00684	1	11/05/2021 19:04	WG1769470
Pyrene	U		0.00228	0.00684	1	11/05/2021 19:04	WG1769470
1-Methylnaphthalene	U		0.00512	0.0228	1	11/05/2021 19:04	WG1769470
2-Methylnaphthalene	U		0.00487	0.0228	1	11/05/2021 19:04	WG1769470
2-Chloronaphthalene	U		0.00531	0.0228	1	11/05/2021 19:04	WG1769470
(S) Nitrobenzene-d5	*61.9*			*14.0-149*		*11/05/2021 19:04*	WG1769470
(S) 2-Fluorobiphenyl	*79.1*			*34.0-125*		*11/05/2021 19:04*	WG1769470
(S) p-Terphenyl-d14	*102*			*23.0-120*		*11/05/2021 19:04*	WG1769470

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

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.2		1	11/02/2021 12:12	WG1766883

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	U		1.14	3.36	25	10/31/2021 01:32	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*93.9*			*77.0-120*		*10/31/2021 01:32*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0491	0.0673	1	11/03/2021 23:12	WG1768143
Acrylonitrile	U		0.00486	0.0168	1	11/03/2021 23:12	WG1768143
Benzene	U		0.000628	0.00135	1	11/03/2021 23:12	WG1768143
Bromobenzene	U		0.00121	0.0168	1	11/03/2021 23:12	WG1768143
Bromodichloromethane	U		0.000975	0.00336	1	11/03/2021 23:12	WG1768143
Bromoform	U		0.00157	0.0336	1	11/03/2021 23:12	WG1768143
Bromomethane	U		0.00265	0.0168	1	11/03/2021 23:12	WG1768143
n-Butylbenzene	U		0.00706	0.0168	1	11/03/2021 23:12	WG1768143
sec-Butylbenzene	U		0.00387	0.0168	1	11/03/2021 23:12	WG1768143
tert-Butylbenzene	U		0.00262	0.00673	1	11/03/2021 23:12	WG1768143
Carbon tetrachloride	U		0.00121	0.00673	1	11/03/2021 23:12	WG1768143
Chlorobenzene	U		0.000283	0.00336	1	11/03/2021 23:12	WG1768143
Chlorodibromomethane	U		0.000823	0.00336	1	11/03/2021 23:12	WG1768143
Chloroethane	U		0.00229	0.00673	1	11/03/2021 23:12	WG1768143
Chloroform	U		0.00139	0.00336	1	11/03/2021 23:12	WG1768143
Chloromethane	U		0.00585	0.0168	1	11/03/2021 23:12	WG1768143
2-Chlorotoluene	U		0.00116	0.00336	1	11/03/2021 23:12	WG1768143
4-Chlorotoluene	U		0.000605	0.00673	1	11/03/2021 23:12	WG1768143
1,2-Dibromo-3-Chloropropane	U		0.00525	0.0336	1	11/03/2021 23:12	WG1768143
1,2-Dibromoethane	U		0.000872	0.00336	1	11/03/2021 23:12	WG1768143
Dibromomethane	U		0.00101	0.00673	1	11/03/2021 23:12	WG1768143
1,2-Dichlorobenzene	U		0.000572	0.00673	1	11/03/2021 23:12	WG1768143
1,3-Dichlorobenzene	U		0.000807	0.00673	1	11/03/2021 23:12	WG1768143
1,4-Dichlorobenzene	U		0.000942	0.00673	1	11/03/2021 23:12	WG1768143
Dichlorodifluoromethane	U		0.00217	0.00336	1	11/03/2021 23:12	WG1768143
1,1-Dichloroethane	U		0.000661	0.00336	1	11/03/2021 23:12	WG1768143
1,2-Dichloroethane	U		0.000873	0.00336	1	11/03/2021 23:12	WG1768143
1,1-Dichloroethene	U		0.000815	0.00336	1	11/03/2021 23:12	WG1768143
cis-1,2-Dichloroethene	U		0.000988	0.00336	1	11/03/2021 23:12	WG1768143
trans-1,2-Dichloroethene	U		0.00140	0.00673	1	11/03/2021 23:12	WG1768143
1,2-Dichloropropane	U		0.00191	0.00673	1	11/03/2021 23:12	WG1768143
1,1-Dichloropropene	U		0.00109	0.00336	1	11/03/2021 23:12	WG1768143
1,3-Dichloropropane	U		0.000674	0.00673	1	11/03/2021 23:12	WG1768143
cis-1,3-Dichloropropene	U		0.00102	0.00336	1	11/03/2021 23:12	WG1768143
trans-1,3-Dichloropropene	U		0.00153	0.00673	1	11/03/2021 23:12	WG1768143
2,2-Dichloropropane	U		0.00186	0.00336	1	11/03/2021 23:12	WG1768143
Di-isopropyl ether	U		0.000552	0.00135	1	11/03/2021 23:12	WG1768143
Ethylbenzene	U		0.000992	0.00336	1	11/03/2021 23:12	WG1768143
Hexachloro-1,3-butadiene	U		0.00807	0.0336	1	11/03/2021 23:12	WG1768143
n-Hexane	U		0.00304	0.00673	1	11/03/2021 23:12	WG1768143
Isopropylbenzene	U		0.000572	0.00336	1	11/03/2021 23:12	WG1768143
p-Isopropyltoluene	U		0.00343	0.00673	1	11/03/2021 23:12	WG1768143
2-Butanone (MEK)	U		0.0854	0.135	1	11/03/2021 23:12	WG1768143

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U	J4	0.00893	0.0336	1	11/03/2021 23:12	WG1768143
4-Methyl-2-pentanone (MIBK)	U		0.00307	0.0336	1	11/03/2021 23:12	WG1768143
Methyl tert-butyl ether	U		0.000471	0.00135	1	11/03/2021 23:12	WG1768143
Naphthalene	U		0.00657	0.0168	1	11/03/2021 23:12	WG1768143
n-Propylbenzene	U		0.00128	0.00673	1	11/03/2021 23:12	WG1768143
Styrene	U		0.000308	0.0168	1	11/03/2021 23:12	WG1768143
1,1,1,2-Tetrachloroethane	U		0.00128	0.00336	1	11/03/2021 23:12	WG1768143
1,1,2,2-Tetrachloroethane	U		0.000935	0.00336	1	11/03/2021 23:12	WG1768143
Tetrachloroethene	U		0.00121	0.00336	1	11/03/2021 23:12	WG1768143
Toluene	U		0.00175	0.00673	1	11/03/2021 23:12	WG1768143
1,2,3-Trichlorobenzene	U		0.00986	0.0168	1	11/03/2021 23:12	WG1768143
1,2,4-Trichlorobenzene	U		0.00592	0.0168	1	11/03/2021 23:12	WG1768143
1,1,1-Trichloroethane	U		0.00124	0.00336	1	11/03/2021 23:12	WG1768143
1,1,2-Trichloroethane	U		0.000803	0.00336	1	11/03/2021 23:12	WG1768143
Trichloroethene	U		0.000786	0.00135	1	11/03/2021 23:12	WG1768143
Trichlorofluoromethane	U		0.00111	0.00336	1	11/03/2021 23:12	WG1768143
1,2,3-Trichloropropane	U		0.00218	0.0168	1	11/03/2021 23:12	WG1768143
1,2,4-Trimethylbenzene	U		0.00213	0.00673	1	11/03/2021 23:12	WG1768143
1,3,5-Trimethylbenzene	U		0.00269	0.00673	1	11/03/2021 23:12	WG1768143
Vinyl chloride	U		0.00156	0.00336	1	11/03/2021 23:12	WG1768143
Xylenes, Total	U		0.00118	0.00874	1	11/03/2021 23:12	WG1768143
(S) Toluene-d8	*103*			*75.0-131*		*11/03/2021 23:12*	WG1768143
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*11/03/2021 23:12*	WG1768143
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/03/2021 23:12*	WG1768143

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	U		0.700	4.59	1	11/03/2021 22:38	WG1768215
C20-C34 Hydrocarbons	1.64	J	0.701	4.59	1	11/03/2021 22:38	WG1768215
(S) o-Terphenyl	*54.6*			*18.0-148*		*11/03/2021 22:38*	WG1768215

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.7		1	11/02/2021 12:12	WG1766883

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	U		1.15	3.40	25	10/31/2021 01:54	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*95.7*			*77.0-120*		*10/31/2021 01:54*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0497	0.0680	1	11/03/2021 23:31	WG1768143
Acrylonitrile	U		0.00491	0.0170	1	11/03/2021 23:31	WG1768143
Benzene	U		0.000635	0.00136	1	11/03/2021 23:31	WG1768143
Bromobenzene	U		0.00122	0.0170	1	11/03/2021 23:31	WG1768143
Bromodichloromethane	U		0.000986	0.00340	1	11/03/2021 23:31	WG1768143
Bromoform	U		0.00159	0.0340	1	11/03/2021 23:31	WG1768143
Bromomethane	U		0.00268	0.0170	1	11/03/2021 23:31	WG1768143
n-Butylbenzene	U		0.00714	0.0170	1	11/03/2021 23:31	WG1768143
sec-Butylbenzene	U		0.00392	0.0170	1	11/03/2021 23:31	WG1768143
tert-Butylbenzene	U		0.00265	0.00680	1	11/03/2021 23:31	WG1768143
Carbon tetrachloride	U		0.00122	0.00680	1	11/03/2021 23:31	WG1768143
Chlorobenzene	U		0.000286	0.00340	1	11/03/2021 23:31	WG1768143
Chlorodibromomethane	U		0.000833	0.00340	1	11/03/2021 23:31	WG1768143
Chloroethane	U		0.00231	0.00680	1	11/03/2021 23:31	WG1768143
Chloroform	U		0.00140	0.00340	1	11/03/2021 23:31	WG1768143
Chloromethane	U		0.00592	0.0170	1	11/03/2021 23:31	WG1768143
2-Chlorotoluene	U		0.00118	0.00340	1	11/03/2021 23:31	WG1768143
4-Chlorotoluene	U		0.000612	0.00680	1	11/03/2021 23:31	WG1768143
1,2-Dibromo-3-Chloropropane	U		0.00531	0.0340	1	11/03/2021 23:31	WG1768143
1,2-Dibromoethane	U		0.000882	0.00340	1	11/03/2021 23:31	WG1768143
Dibromomethane	U		0.00102	0.00680	1	11/03/2021 23:31	WG1768143
1,2-Dichlorobenzene	U		0.000578	0.00680	1	11/03/2021 23:31	WG1768143
1,3-Dichlorobenzene	U		0.000816	0.00680	1	11/03/2021 23:31	WG1768143
1,4-Dichlorobenzene	U		0.000952	0.00680	1	11/03/2021 23:31	WG1768143
Dichlorodifluoromethane	U		0.00219	0.00340	1	11/03/2021 23:31	WG1768143
1,1-Dichloroethane	U		0.000668	0.00340	1	11/03/2021 23:31	WG1768143
1,2-Dichloroethane	U		0.000883	0.00340	1	11/03/2021 23:31	WG1768143
1,1-Dichloroethene	U		0.000824	0.00340	1	11/03/2021 23:31	WG1768143
cis-1,2-Dichloroethene	U		0.000999	0.00340	1	11/03/2021 23:31	WG1768143
trans-1,2-Dichloroethene	U		0.00141	0.00680	1	11/03/2021 23:31	WG1768143
1,2-Dichloropropane	U		0.00193	0.00680	1	11/03/2021 23:31	WG1768143
1,1-Dichloropropene	U		0.00110	0.00340	1	11/03/2021 23:31	WG1768143
1,3-Dichloropropane	U		0.000682	0.00680	1	11/03/2021 23:31	WG1768143
cis-1,3-Dichloropropene	U		0.00103	0.00340	1	11/03/2021 23:31	WG1768143
trans-1,3-Dichloropropene	U		0.00155	0.00680	1	11/03/2021 23:31	WG1768143
2,2-Dichloropropane	U		0.00188	0.00340	1	11/03/2021 23:31	WG1768143
Di-isopropyl ether	U		0.000558	0.00136	1	11/03/2021 23:31	WG1768143
Ethylbenzene	U		0.00100	0.00340	1	11/03/2021 23:31	WG1768143
Hexachloro-1,3-butadiene	U		0.00816	0.0340	1	11/03/2021 23:31	WG1768143
n-Hexane	U		0.00307	0.00680	1	11/03/2021 23:31	WG1768143
Isopropylbenzene	U		0.000578	0.00340	1	11/03/2021 23:31	WG1768143
p-Isopropyltoluene	U		0.00347	0.00680	1	11/03/2021 23:31	WG1768143
2-Butanone (MEK)	U		0.0864	0.136	1	11/03/2021 23:31	WG1768143

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U	J4	0.00903	0.0340	1	11/03/2021 23:31	WG1768143
4-Methyl-2-pentanone (MIBK)	U		0.00310	0.0340	1	11/03/2021 23:31	WG1768143
Methyl tert-butyl ether	U		0.000476	0.00136	1	11/03/2021 23:31	WG1768143
Naphthalene	U		0.00664	0.0170	1	11/03/2021 23:31	WG1768143
n-Propylbenzene	U		0.00129	0.00680	1	11/03/2021 23:31	WG1768143
Styrene	U		0.000312	0.0170	1	11/03/2021 23:31	WG1768143
1,1,1,2-Tetrachloroethane	U		0.00129	0.00340	1	11/03/2021 23:31	WG1768143
1,1,2,2-Tetrachloroethane	U		0.000946	0.00340	1	11/03/2021 23:31	WG1768143
Tetrachloroethene	U		0.00122	0.00340	1	11/03/2021 23:31	WG1768143
Toluene	U		0.00177	0.00680	1	11/03/2021 23:31	WG1768143
1,2,3-Trichlorobenzene	U		0.00997	0.0170	1	11/03/2021 23:31	WG1768143
1,2,4-Trichlorobenzene	U		0.00599	0.0170	1	11/03/2021 23:31	WG1768143
1,1,1-Trichloroethane	U		0.00126	0.00340	1	11/03/2021 23:31	WG1768143
1,1,2-Trichloroethane	U		0.000812	0.00340	1	11/03/2021 23:31	WG1768143
Trichloroethene	U		0.000795	0.00136	1	11/03/2021 23:31	WG1768143
Trichlorofluoromethane	U		0.00113	0.00340	1	11/03/2021 23:31	WG1768143
1,2,3-Trichloropropane	U		0.00220	0.0170	1	11/03/2021 23:31	WG1768143
1,2,4-Trimethylbenzene	U		0.00215	0.00680	1	11/03/2021 23:31	WG1768143
1,3,5-Trimethylbenzene	U		0.00272	0.00680	1	11/03/2021 23:31	WG1768143
Vinyl chloride	U		0.00158	0.00340	1	11/03/2021 23:31	WG1768143
Xylenes, Total	U		0.00120	0.00884	1	11/03/2021 23:31	WG1768143
(S) Toluene-d8	*104*			*75.0-131*		*11/03/2021 23:31*	WG1768143
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*		*11/03/2021 23:31*	WG1768143
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/03/2021 23:31*	WG1768143

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	0.735	J	0.703	4.61	1	11/03/2021 22:51	WG1768215
C20-C34 Hydrocarbons	1.09	J	0.705	4.61	1	11/03/2021 22:51	WG1768215
(S) o-Terphenyl	*43.5*			*18.0-148*		*11/03/2021 22:51*	WG1768215

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.0		1	11/02/2021 12:12	WG1766883

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	8.16		0.990	2.92	25	10/31/2021 02:16	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*96.4*			*77.0-120*		*10/31/2021 02:16*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0426	0.0584	1	11/03/2021 23:50	WG1768143
Acrylonitrile	U		0.00421	0.0146	1	11/03/2021 23:50	WG1768143
Benzene	U		0.000545	0.00117	1	11/03/2021 23:50	WG1768143
Bromobenzene	U		0.00105	0.0146	1	11/03/2021 23:50	WG1768143
Bromodichloromethane	U		0.000846	0.00292	1	11/03/2021 23:50	WG1768143
Bromoform	U		0.00137	0.0292	1	11/03/2021 23:50	WG1768143
Bromomethane	U		0.00230	0.0146	1	11/03/2021 23:50	WG1768143
n-Butylbenzene	U		0.00613	0.0146	1	11/03/2021 23:50	WG1768143
sec-Butylbenzene	0.00401	J	0.00336	0.0146	1	11/03/2021 23:50	WG1768143
tert-Butylbenzene	U		0.00228	0.00584	1	11/03/2021 23:50	WG1768143
Carbon tetrachloride	U		0.00105	0.00584	1	11/03/2021 23:50	WG1768143
Chlorobenzene	U		0.000245	0.00292	1	11/03/2021 23:50	WG1768143
Chlorodibromomethane	U		0.000714	0.00292	1	11/03/2021 23:50	WG1768143
Chloroethane	U		0.00198	0.00584	1	11/03/2021 23:50	WG1768143
Chloroform	U		0.00120	0.00292	1	11/03/2021 23:50	WG1768143
Chloromethane	U		0.00508	0.0146	1	11/03/2021 23:50	WG1768143
2-Chlorotoluene	U		0.00101	0.00292	1	11/03/2021 23:50	WG1768143
4-Chlorotoluene	U		0.000525	0.00584	1	11/03/2021 23:50	WG1768143
1,2-Dibromo-3-Chloropropane	U		0.00455	0.0292	1	11/03/2021 23:50	WG1768143
1,2-Dibromoethane	U		0.000756	0.00292	1	11/03/2021 23:50	WG1768143
Dibromomethane	U		0.000875	0.00584	1	11/03/2021 23:50	WG1768143
1,2-Dichlorobenzene	U		0.000496	0.00584	1	11/03/2021 23:50	WG1768143
1,3-Dichlorobenzene	U		0.000700	0.00584	1	11/03/2021 23:50	WG1768143
1,4-Dichlorobenzene	U		0.000817	0.00584	1	11/03/2021 23:50	WG1768143
Dichlorodifluoromethane	U		0.00188	0.00292	1	11/03/2021 23:50	WG1768143
1,1-Dichloroethane	U		0.000573	0.00292	1	11/03/2021 23:50	WG1768143
1,2-Dichloroethane	U		0.000757	0.00292	1	11/03/2021 23:50	WG1768143
1,1-Dichloroethene	U		0.000707	0.00292	1	11/03/2021 23:50	WG1768143
cis-1,2-Dichloroethene	U		0.000857	0.00292	1	11/03/2021 23:50	WG1768143
trans-1,2-Dichloroethene	U		0.00121	0.00584	1	11/03/2021 23:50	WG1768143
1,2-Dichloropropane	U		0.00166	0.00584	1	11/03/2021 23:50	WG1768143
1,1-Dichloropropene	U		0.000944	0.00292	1	11/03/2021 23:50	WG1768143
1,3-Dichloropropane	U		0.000585	0.00584	1	11/03/2021 23:50	WG1768143
cis-1,3-Dichloropropene	U		0.000883	0.00292	1	11/03/2021 23:50	WG1768143
trans-1,3-Dichloropropene	U		0.00133	0.00584	1	11/03/2021 23:50	WG1768143
2,2-Dichloropropane	U		0.00161	0.00292	1	11/03/2021 23:50	WG1768143
Di-isopropyl ether	U		0.000478	0.00117	1	11/03/2021 23:50	WG1768143
Ethylbenzene	U		0.000860	0.00292	1	11/03/2021 23:50	WG1768143
Hexachloro-1,3-butadiene	U		0.00700	0.0292	1	11/03/2021 23:50	WG1768143
n-Hexane	U		0.00264	0.00584	1	11/03/2021 23:50	WG1768143
Isopropylbenzene	U		0.000496	0.00292	1	11/03/2021 23:50	WG1768143
p-Isopropyltoluene	U		0.00298	0.00584	1	11/03/2021 23:50	WG1768143
2-Butanone (MEK)	0.0949	B J	0.0741	0.117	1	11/03/2021 23:50	WG1768143

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U	J4	0.00775	0.0292	1	11/03/2021 23:50	WG1768143
4-Methyl-2-pentanone (MIBK)	U		0.00266	0.0292	1	11/03/2021 23:50	WG1768143
Methyl tert-butyl ether	U		0.000408	0.00117	1	11/03/2021 23:50	WG1768143
Naphthalene	U		0.00570	0.0146	1	11/03/2021 23:50	WG1768143
n-Propylbenzene	U		0.00111	0.00584	1	11/03/2021 23:50	WG1768143
Styrene	U		0.000267	0.0146	1	11/03/2021 23:50	WG1768143
1,1,1,2-Tetrachloroethane	U		0.00111	0.00292	1	11/03/2021 23:50	WG1768143
1,1,2,2-Tetrachloroethane	U		0.000811	0.00292	1	11/03/2021 23:50	WG1768143
Tetrachloroethene	U		0.00105	0.00292	1	11/03/2021 23:50	WG1768143
Toluene	U		0.00152	0.00584	1	11/03/2021 23:50	WG1768143
1,2,3-Trichlorobenzene	U		0.00855	0.0146	1	11/03/2021 23:50	WG1768143
1,2,4-Trichlorobenzene	U		0.00514	0.0146	1	11/03/2021 23:50	WG1768143
1,1,1-Trichloroethane	U		0.00108	0.00292	1	11/03/2021 23:50	WG1768143
1,1,2-Trichloroethane	U		0.000697	0.00292	1	11/03/2021 23:50	WG1768143
Trichloroethene	U		0.000682	0.00117	1	11/03/2021 23:50	WG1768143
Trichlorofluoromethane	U		0.000965	0.00292	1	11/03/2021 23:50	WG1768143
1,2,3-Trichloropropane	U		0.00189	0.0146	1	11/03/2021 23:50	WG1768143
1,2,4-Trimethylbenzene	0.00869		0.00184	0.00584	1	11/03/2021 23:50	WG1768143
1,3,5-Trimethylbenzene	0.00962		0.00233	0.00584	1	11/03/2021 23:50	WG1768143
Vinyl chloride	U		0.00135	0.00292	1	11/03/2021 23:50	WG1768143
Xylenes, Total	U		0.00103	0.00759	1	11/03/2021 23:50	WG1768143
(S) Toluene-d8	*102*			*75.0-131*		*11/03/2021 23:50*	WG1768143
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/03/2021 23:50*	WG1768143
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/03/2021 23:50*	WG1768143

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	123		6.56	43.0	10	11/04/2021 01:10	WG1768215
C20-C34 Hydrocarbons	830	V	6.57	43.0	10	11/04/2021 01:10	WG1768215
(S) o-Terphenyl	*59.7*			*18.0-148*		*11/04/2021 01:10*	WG1768215

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.2		1	11/02/2021 12:00	WG1766889

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	287		1.15	3.40	25	10/31/2021 02:38	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*98.5*			*77.0-120*		*10/31/2021 02:38*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0496	0.0679	1	11/04/2021 00:09	WG1768143
Acrylonitrile	U		0.00491	0.0170	1	11/04/2021 00:09	WG1768143
Benzene	U		0.000635	0.00136	1	11/04/2021 00:09	WG1768143
Bromobenzene	U		0.00122	0.0170	1	11/04/2021 00:09	WG1768143
Bromodichloromethane	U		0.000985	0.00340	1	11/04/2021 00:09	WG1768143
Bromoform	U		0.00159	0.0340	1	11/04/2021 00:09	WG1768143
Bromomethane	U		0.00268	0.0170	1	11/04/2021 00:09	WG1768143
n-Butylbenzene	0.421		0.00713	0.0170	1	11/04/2021 00:09	WG1768143
sec-Butylbenzene	0.872		0.00391	0.0170	1	11/04/2021 00:09	WG1768143
tert-Butylbenzene	0.0564		0.00265	0.00679	1	11/04/2021 00:09	WG1768143
Carbon tetrachloride	U		0.00122	0.00679	1	11/04/2021 00:09	WG1768143
Chlorobenzene	U		0.000285	0.00340	1	11/04/2021 00:09	WG1768143
Chlorodibromomethane	U		0.000832	0.00340	1	11/04/2021 00:09	WG1768143
Chloroethane	U		0.00231	0.00679	1	11/04/2021 00:09	WG1768143
Chloroform	U		0.00140	0.00340	1	11/04/2021 00:09	WG1768143
Chloromethane	U		0.00591	0.0170	1	11/04/2021 00:09	WG1768143
2-Chlorotoluene	U		0.00118	0.00340	1	11/04/2021 00:09	WG1768143
4-Chlorotoluene	U		0.000611	0.00679	1	11/04/2021 00:09	WG1768143
1,2-Dibromo-3-Chloropropane	U		0.00530	0.0340	1	11/04/2021 00:09	WG1768143
1,2-Dibromoethane	U		0.000880	0.00340	1	11/04/2021 00:09	WG1768143
Dibromomethane	U		0.00102	0.00679	1	11/04/2021 00:09	WG1768143
1,2-Dichlorobenzene	U		0.000577	0.00679	1	11/04/2021 00:09	WG1768143
1,3-Dichlorobenzene	U		0.000815	0.00679	1	11/04/2021 00:09	WG1768143
1,4-Dichlorobenzene	U		0.000951	0.00679	1	11/04/2021 00:09	WG1768143
Dichlorodifluoromethane	U		0.00219	0.00340	1	11/04/2021 00:09	WG1768143
1,1-Dichloroethane	U		0.000667	0.00340	1	11/04/2021 00:09	WG1768143
1,2-Dichloroethane	U		0.000882	0.00340	1	11/04/2021 00:09	WG1768143
1,1-Dichloroethene	U		0.000823	0.00340	1	11/04/2021 00:09	WG1768143
cis-1,2-Dichloroethene	U		0.000997	0.00340	1	11/04/2021 00:09	WG1768143
trans-1,2-Dichloroethene	U		0.00141	0.00679	1	11/04/2021 00:09	WG1768143
1,2-Dichloropropane	U		0.00193	0.00679	1	11/04/2021 00:09	WG1768143
1,1-Dichloropropene	U		0.00110	0.00340	1	11/04/2021 00:09	WG1768143
1,3-Dichloropropane	U		0.000681	0.00679	1	11/04/2021 00:09	WG1768143
cis-1,3-Dichloropropene	U		0.00103	0.00340	1	11/04/2021 00:09	WG1768143
trans-1,3-Dichloropropene	U		0.00155	0.00679	1	11/04/2021 00:09	WG1768143
2,2-Dichloropropane	U		0.00188	0.00340	1	11/04/2021 00:09	WG1768143
Di-isopropyl ether	U		0.000557	0.00136	1	11/04/2021 00:09	WG1768143
Ethylbenzene	U		0.00100	0.00340	1	11/04/2021 00:09	WG1768143
Hexachloro-1,3-butadiene	U		0.00815	0.0340	1	11/04/2021 00:09	WG1768143
n-Hexane	U		0.00307	0.00679	1	11/04/2021 00:09	WG1768143
Isopropylbenzene	0.0160		0.000577	0.00340	1	11/04/2021 00:09	WG1768143
p-Isopropyltoluene	0.205		0.00346	0.00679	1	11/04/2021 00:09	WG1768143
2-Butanone (MEK)	U		0.0863	0.136	1	11/04/2021 00:09	WG1768143

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U	J4	0.00902	0.0340	1	11/04/2021 00:09	WG1768143
4-Methyl-2-pentanone (MIBK)	0.0929		0.00310	0.0340	1	11/04/2021 00:09	WG1768143
Methyl tert-butyl ether	U		0.000476	0.00136	1	11/04/2021 00:09	WG1768143
Naphthalene	0.0465		0.00663	0.0170	1	11/04/2021 00:09	WG1768143
n-Propylbenzene	0.0526		0.00129	0.00679	1	11/04/2021 00:09	WG1768143
Styrene	U		0.000311	0.0170	1	11/04/2021 00:09	WG1768143
1,1,1,2-Tetrachloroethane	U		0.00129	0.00340	1	11/04/2021 00:09	WG1768143
1,1,2,2-Tetrachloroethane	U		0.000944	0.00340	1	11/04/2021 00:09	WG1768143
Tetrachloroethene	0.00145	J	0.00122	0.00340	1	11/04/2021 00:09	WG1768143
Toluene	U		0.00177	0.00679	1	11/04/2021 00:09	WG1768143
1,2,3-Trichlorobenzene	U		0.00996	0.0170	1	11/04/2021 00:09	WG1768143
1,2,4-Trichlorobenzene	0.0496		0.00598	0.0170	1	11/04/2021 00:09	WG1768143
1,1,1-Trichloroethane	U		0.00125	0.00340	1	11/04/2021 00:09	WG1768143
1,1,2-Trichloroethane	U		0.000811	0.00340	1	11/04/2021 00:09	WG1768143
Trichloroethene	U		0.000794	0.00136	1	11/04/2021 00:09	WG1768143
Trichlorofluoromethane	U		0.00112	0.00340	1	11/04/2021 00:09	WG1768143
1,2,3-Trichloropropane	U		0.00220	0.0170	1	11/04/2021 00:09	WG1768143
1,2,4-Trimethylbenzene	0.511		0.00215	0.00679	1	11/04/2021 00:09	WG1768143
1,3,5-Trimethylbenzene	0.614		0.00272	0.00679	1	11/04/2021 00:09	WG1768143
Vinyl chloride	U		0.00158	0.00340	1	11/04/2021 00:09	WG1768143
Xylenes, Total	0.00274	J	0.00120	0.00883	1	11/04/2021 00:09	WG1768143
(S) Toluene-d8	*97.9*			*75.0-131*		*11/04/2021 00:09*	WG1768143
(S) 4-Bromofluorobenzene	*99.7*			*67.0-138*		*11/04/2021 00:09*	WG1768143
(S) 1,2-Dichloroethane-d4	*99.0*			*70.0-130*		*11/04/2021 00:09*	WG1768143

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	740		7.08	46.4	10	11/04/2021 00:58	WG1768215
C20-C34 Hydrocarbons	3460		14.2	92.8	20	11/04/2021 10:55	WG1768215
(S) o-Terphenyl	*148*			*18.0-148*		*11/04/2021 00:58*	WG1768215
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*11/04/2021 10:55*	WG1768215

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0137	0.0395	1	11/08/2021 03:42	WG1769931
PCB 1221	U		0.0137	0.0395	1	11/08/2021 03:42	WG1769931
PCB 1232	U		0.0137	0.0395	1	11/08/2021 03:42	WG1769931
PCB 1242	U		0.0137	0.0395	1	11/08/2021 03:42	WG1769931
PCB 1248	U		0.00856	0.0197	1	11/08/2021 03:42	WG1769931
PCB 1254	U		0.00856	0.0197	1	11/08/2021 03:42	WG1769931
PCB 1260	0.116	P	0.0428	0.0986	5	11/10/2021 16:28	WG1769931
(S) Decachlorobiphenyl	*92.8*			*10.0-135*		*11/10/2021 16:28*	WG1769931
(S) Decachlorobiphenyl	*92.6*			*10.0-135*		*11/08/2021 03:42*	WG1769931
(S) Tetrachloro-m-xylene	*88.5*			*10.0-139*		*11/08/2021 03:42*	WG1769931
(S) Tetrachloro-m-xylene	*113*			*10.0-139*		*11/10/2021 16:28*	WG1769931

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0216	J3	0.00267	0.00696	1	11/05/2021 20:15	WG1769470
Acenaphthene	0.0396	J3	0.00243	0.00696	1	11/05/2021 20:15	WG1769470
Acenaphthylene	U		0.00251	0.00696	1	11/05/2021 20:15	WG1769470
Benzo(a)anthracene	0.0407		0.00201	0.00696	1	11/05/2021 20:15	WG1769470

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(a)pyrene	0.0312		0.00208	0.00696	1	11/05/2021 20:15	WG1769470
Benzo(b)fluoranthene	0.0312		0.00178	0.00696	1	11/05/2021 20:15	WG1769470
Benzo(g,h,i)perylene	0.0237		0.00205	0.00696	1	11/05/2021 20:15	WG1769470
Benzo(k)fluoranthene	0.0370		0.00249	0.00696	1	11/05/2021 20:15	WG1769470
Chrysene	0.0469	J5	0.00269	0.00696	1	11/05/2021 20:15	WG1769470
Dibenz(a,h)anthracene	0.00339	J	0.00200	0.00696	1	11/05/2021 20:15	WG1769470
Fluoranthene	0.123	J3 J5	0.00263	0.00696	1	11/05/2021 20:15	WG1769470
Fluorene	0.0797	J3 J5	0.00238	0.00696	1	11/05/2021 20:15	WG1769470
Indeno(1,2,3-cd)pyrene	0.0171		0.00210	0.00696	1	11/05/2021 20:15	WG1769470
Naphthalene	0.0569		0.00473	0.0232	1	11/05/2021 20:15	WG1769470
Phenanthrene	0.410	J3 V	0.00268	0.00696	1	11/05/2021 20:15	WG1769470
Pyrene	0.333	J3 J5	0.00232	0.00696	1	11/05/2021 20:15	WG1769470
1-Methylnaphthalene	0.123	J3 J5	0.00521	0.0232	1	11/05/2021 20:15	WG1769470
2-Methylnaphthalene	0.0215	J	0.00495	0.0232	1	11/05/2021 20:15	WG1769470
2-Chloronaphthalene	U		0.00541	0.0232	1	11/05/2021 20:15	WG1769470
(S) Nitrobenzene-d5	*0.000*	J2		*14.0-149*		*11/05/2021 20:15*	WG1769470
(S) 2-Fluorobiphenyl	*62.9*			*34.0-125*		*11/05/2021 20:15*	WG1769470
(S) p-Terphenyl-d14	*82.5*			*23.0-120*		*11/05/2021 20:15*	WG1769470

Sample Narrative:

L1424325-10 WG1769470: Surrogate failure due to matrix interference

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.1		1	11/02/2021 12:00	WG1766889

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	275		1.17	3.44	25	10/31/2021 03:00	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*77.0-120*		*10/31/2021 03:00*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0502	0.0687	1	11/04/2021 00:28	WG1768143
Acrylonitrile	U		0.00496	0.0172	1	11/04/2021 00:28	WG1768143
Benzene	U		0.000642	0.00137	1	11/04/2021 00:28	WG1768143
Bromobenzene	U		0.00124	0.0172	1	11/04/2021 00:28	WG1768143
Bromodichloromethane	U		0.000997	0.00344	1	11/04/2021 00:28	WG1768143
Bromoform	U		0.00161	0.0344	1	11/04/2021 00:28	WG1768143
Bromomethane	U		0.00271	0.0172	1	11/04/2021 00:28	WG1768143
n-Butylbenzene	0.808		0.00722	0.0172	1	11/04/2021 00:28	WG1768143
sec-Butylbenzene	0.958		0.00396	0.0172	1	11/04/2021 00:28	WG1768143
tert-Butylbenzene	0.0583		0.00268	0.00687	1	11/04/2021 00:28	WG1768143
Carbon tetrachloride	U		0.00123	0.00687	1	11/04/2021 00:28	WG1768143
Chlorobenzene	U		0.000289	0.00344	1	11/04/2021 00:28	WG1768143
Chlorodibromomethane	U		0.000841	0.00344	1	11/04/2021 00:28	WG1768143
Chloroethane	U		0.00234	0.00687	1	11/04/2021 00:28	WG1768143
Chloroform	U		0.00142	0.00344	1	11/04/2021 00:28	WG1768143
Chloromethane	U		0.00598	0.0172	1	11/04/2021 00:28	WG1768143
2-Chlorotoluene	U		0.00119	0.00344	1	11/04/2021 00:28	WG1768143
4-Chlorotoluene	U		0.000619	0.00687	1	11/04/2021 00:28	WG1768143
1,2-Dibromo-3-Chloropropane	U		0.00536	0.0344	1	11/04/2021 00:28	WG1768143
1,2-Dibromoethane	U		0.000891	0.00344	1	11/04/2021 00:28	WG1768143
Dibromomethane	U		0.00103	0.00687	1	11/04/2021 00:28	WG1768143
1,2-Dichlorobenzene	U		0.000584	0.00687	1	11/04/2021 00:28	WG1768143
1,3-Dichlorobenzene	U		0.000825	0.00687	1	11/04/2021 00:28	WG1768143
1,4-Dichlorobenzene	U		0.000962	0.00687	1	11/04/2021 00:28	WG1768143
Dichlorodifluoromethane	U		0.00221	0.00344	1	11/04/2021 00:28	WG1768143
1,1-Dichloroethane	U		0.000675	0.00344	1	11/04/2021 00:28	WG1768143
1,2-Dichloroethane	U		0.000892	0.00344	1	11/04/2021 00:28	WG1768143
1,1-Dichloroethene	U		0.000833	0.00344	1	11/04/2021 00:28	WG1768143
cis-1,2-Dichloroethene	U		0.00101	0.00344	1	11/04/2021 00:28	WG1768143
trans-1,2-Dichloroethene	U		0.00143	0.00687	1	11/04/2021 00:28	WG1768143
1,2-Dichloropropane	U		0.00195	0.00687	1	11/04/2021 00:28	WG1768143
1,1-Dichloropropene	U		0.00111	0.00344	1	11/04/2021 00:28	WG1768143
1,3-Dichloropropane	U		0.000689	0.00687	1	11/04/2021 00:28	WG1768143
cis-1,3-Dichloropropene	U		0.00104	0.00344	1	11/04/2021 00:28	WG1768143
trans-1,3-Dichloropropene	U		0.00157	0.00687	1	11/04/2021 00:28	WG1768143
2,2-Dichloropropane	U		0.00190	0.00344	1	11/04/2021 00:28	WG1768143
Di-isopropyl ether	U		0.000564	0.00137	1	11/04/2021 00:28	WG1768143
Ethylbenzene	U		0.00101	0.00344	1	11/04/2021 00:28	WG1768143
Hexachloro-1,3-butadiene	U		0.00825	0.0344	1	11/04/2021 00:28	WG1768143
n-Hexane	U		0.00311	0.00687	1	11/04/2021 00:28	WG1768143
Isopropylbenzene	0.0477		0.000584	0.00344	1	11/04/2021 00:28	WG1768143
p-Isopropyltoluene	0.425		0.00351	0.00687	1	11/04/2021 00:28	WG1768143
2-Butanone (MEK)	0.124	B J	0.0873	0.137	1	11/04/2021 00:28	WG1768143

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U	J4	0.00913	0.0344	1	11/04/2021 00:28	WG1768143
4-Methyl-2-pentanone (MIBK)	U		0.00313	0.0344	1	11/04/2021 00:28	WG1768143
Methyl tert-butyl ether	U		0.000481	0.00137	1	11/04/2021 00:28	WG1768143
Naphthalene	0.102		0.00671	0.0172	1	11/04/2021 00:28	WG1768143
n-Propylbenzene	0.133		0.00131	0.00687	1	11/04/2021 00:28	WG1768143
Styrene	U		0.000315	0.0172	1	11/04/2021 00:28	WG1768143
1,1,1,2-Tetrachloroethane	U		0.00130	0.00344	1	11/04/2021 00:28	WG1768143
1,1,2,2-Tetrachloroethane	U		0.000955	0.00344	1	11/04/2021 00:28	WG1768143
Tetrachloroethene	0.00249	J	0.00123	0.00344	1	11/04/2021 00:28	WG1768143
Toluene	U		0.00179	0.00687	1	11/04/2021 00:28	WG1768143
1,2,3-Trichlorobenzene	U		0.0101	0.0172	1	11/04/2021 00:28	WG1768143
1,2,4-Trichlorobenzene	0.0423		0.00605	0.0172	1	11/04/2021 00:28	WG1768143
1,1,1-Trichloroethane	U		0.00127	0.00344	1	11/04/2021 00:28	WG1768143
1,1,2-Trichloroethane	U		0.000821	0.00344	1	11/04/2021 00:28	WG1768143
Trichloroethene	U		0.000803	0.00137	1	11/04/2021 00:28	WG1768143
Trichlorofluoromethane	U		0.00114	0.00344	1	11/04/2021 00:28	WG1768143
1,2,3-Trichloropropane	U		0.00223	0.0172	1	11/04/2021 00:28	WG1768143
1,2,4-Trimethylbenzene	1.86		0.00217	0.00687	1	11/04/2021 00:28	WG1768143
1,3,5-Trimethylbenzene	1.51		0.00275	0.00687	1	11/04/2021 00:28	WG1768143
Vinyl chloride	U		0.00159	0.00344	1	11/04/2021 00:28	WG1768143
Xylenes, Total	0.00906		0.00121	0.00894	1	11/04/2021 00:28	WG1768143
(S) Toluene-d8	*101*			*75.0-131*		*11/04/2021 00:28*	WG1768143
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*11/04/2021 00:28*	WG1768143
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*		*11/04/2021 00:28*	WG1768143

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	603	Q	3.54	23.2	5	12/04/2021 10:36	WG1783638
C20-C34 Hydrocarbons	2700	Q	17.8	116	25	12/04/2021 14:21	WG1783638
(S) o-Terphenyl	*199*	J1		*18.0-148*		*12/04/2021 10:36*	WG1783638
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*12/04/2021 14:21*	WG1783638

Sample Narrative:

L1424325-11 WG1783638: Surrogate failure due to matrix interference

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0137	0.0395	1	11/08/2021 03:52	WG1769931
PCB 1221	U		0.0137	0.0395	1	11/08/2021 03:52	WG1769931
PCB 1232	U		0.0137	0.0395	1	11/08/2021 03:52	WG1769931
PCB 1242	U		0.0137	0.0395	1	11/08/2021 03:52	WG1769931
PCB 1248	U		0.00857	0.0197	1	11/08/2021 03:52	WG1769931
PCB 1254	U		0.00857	0.0197	1	11/08/2021 03:52	WG1769931
PCB 1260	0.213	P	0.0172	0.0395	2	11/10/2021 16:19	WG1769931
(S) Decachlorobiphenyl	*106*			*10.0-135*		*11/08/2021 03:52*	WG1769931
(S) Decachlorobiphenyl	*109*			*10.0-135*		*11/10/2021 16:19*	WG1769931
(S) Tetrachloro-m-xylene	*109*			*10.0-139*		*11/08/2021 03:52*	WG1769931
(S) Tetrachloro-m-xylene	*139*			*10.0-139*		*11/10/2021 16:19*	WG1769931

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0414		0.00267	0.00697	1	11/05/2021 21:10	WG1769470
Acenaphthene	0.0714		0.00243	0.00697	1	11/05/2021 21:10	WG1769470
Acenaphthylene	U		0.00251	0.00697	1	11/05/2021 21:10	WG1769470
Benzo(a)anthracene	0.0721		0.00201	0.00697	1	11/05/2021 21:10	WG1769470
Benzo(a)pyrene	0.0599		0.00208	0.00697	1	11/05/2021 21:10	WG1769470
Benzo(b)fluoranthene	0.0639		0.00178	0.00697	1	11/05/2021 21:10	WG1769470
Benzo(g,h,i)perylene	0.0460		0.00206	0.00697	1	11/05/2021 21:10	WG1769470
Benzo(k)fluoranthene	0.0632		0.00250	0.00697	1	11/05/2021 21:10	WG1769470
Chrysene	0.0861		0.00270	0.00697	1	11/05/2021 21:10	WG1769470
Dibenz(a,h)anthracene	0.00663	J	0.00200	0.00697	1	11/05/2021 21:10	WG1769470
Fluoranthene	0.242		0.00264	0.00697	1	11/05/2021 21:10	WG1769470
Fluorene	0.144		0.00238	0.00697	1	11/05/2021 21:10	WG1769470
Indeno(1,2,3-cd)pyrene	0.0319		0.00210	0.00697	1	11/05/2021 21:10	WG1769470
Naphthalene	0.0962		0.00474	0.0232	1	11/05/2021 21:10	WG1769470
Phenanthrene	0.761		0.00268	0.00697	1	11/05/2021 21:10	WG1769470
Pyrene	0.592		0.00232	0.00697	1	11/05/2021 21:10	WG1769470
1-Methylnaphthalene	0.0972		0.00522	0.0232	1	11/05/2021 21:10	WG1769470
2-Methylnaphthalene	U		0.00496	0.0232	1	11/05/2021 21:10	WG1769470
2-Chloronaphthalene	U		0.00541	0.0232	1	11/05/2021 21:10	WG1769470
(S) Nitrobenzene-d5	*0.000*	J2		*14.0-149*		*11/05/2021 21:10*	WG1769470
(S) 2-Fluorobiphenyl	*72.0*			*34.0-125*		*11/05/2021 21:10*	WG1769470
(S) p-Terphenyl-d14	*95.9*			*23.0-120*		*11/05/2021 21:10*	WG1769470

Sample Narrative:

L1424325-11 WG1769470: Surrogate failure due to matrix interference

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.7		1	11/02/2021 12:00	WG1766889

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	1.31	J	0.991	2.92	25	10/31/2021 03:22	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*94.5*			*77.0-120*		*10/31/2021 03:22*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0427	0.0584	1	11/04/2021 00:47	WG1768143
Acrylonitrile	U		0.00422	0.0146	1	11/04/2021 00:47	WG1768143
Benzene	0.00107	J	0.000546	0.00117	1	11/04/2021 00:47	WG1768143
Bromobenzene	U		0.00105	0.0146	1	11/04/2021 00:47	WG1768143
Bromodichloromethane	U		0.000847	0.00292	1	11/04/2021 00:47	WG1768143
Bromoform	U		0.00137	0.0292	1	11/04/2021 00:47	WG1768143
Bromomethane	U		0.00230	0.0146	1	11/04/2021 00:47	WG1768143
n-Butylbenzene	0.0109	J	0.00614	0.0146	1	11/04/2021 00:47	WG1768143
sec-Butylbenzene	0.00930	J	0.00337	0.0146	1	11/04/2021 00:47	WG1768143
tert-Butylbenzene	U		0.00228	0.00584	1	11/04/2021 00:47	WG1768143
Carbon tetrachloride	U		0.00105	0.00584	1	11/04/2021 00:47	WG1768143
Chlorobenzene	U		0.000245	0.00292	1	11/04/2021 00:47	WG1768143
Chlorodibromomethane	U		0.000715	0.00292	1	11/04/2021 00:47	WG1768143
Chloroethane	U		0.00199	0.00584	1	11/04/2021 00:47	WG1768143
Chloroform	U		0.00120	0.00292	1	11/04/2021 00:47	WG1768143
Chloromethane	U		0.00508	0.0146	1	11/04/2021 00:47	WG1768143
2-Chlorotoluene	U		0.00101	0.00292	1	11/04/2021 00:47	WG1768143
4-Chlorotoluene	U		0.000526	0.00584	1	11/04/2021 00:47	WG1768143
1,2-Dibromo-3-Chloropropane	U		0.00456	0.0292	1	11/04/2021 00:47	WG1768143
1,2-Dibromoethane	U		0.000757	0.00292	1	11/04/2021 00:47	WG1768143
Dibromomethane	U		0.000876	0.00584	1	11/04/2021 00:47	WG1768143
1,2-Dichlorobenzene	U		0.000497	0.00584	1	11/04/2021 00:47	WG1768143
1,3-Dichlorobenzene	U		0.000701	0.00584	1	11/04/2021 00:47	WG1768143
1,4-Dichlorobenzene	U		0.000818	0.00584	1	11/04/2021 00:47	WG1768143
Dichlorodifluoromethane	U		0.00188	0.00292	1	11/04/2021 00:47	WG1768143
1,1-Dichloroethane	U		0.000574	0.00292	1	11/04/2021 00:47	WG1768143
1,2-Dichloroethane	U		0.000758	0.00292	1	11/04/2021 00:47	WG1768143
1,1-Dichloroethene	U		0.000708	0.00292	1	11/04/2021 00:47	WG1768143
cis-1,2-Dichloroethene	U		0.000858	0.00292	1	11/04/2021 00:47	WG1768143
trans-1,2-Dichloroethene	U		0.00122	0.00584	1	11/04/2021 00:47	WG1768143
1,2-Dichloropropane	U		0.00166	0.00584	1	11/04/2021 00:47	WG1768143
1,1-Dichloropropene	U		0.000945	0.00292	1	11/04/2021 00:47	WG1768143
1,3-Dichloropropane	U		0.000585	0.00584	1	11/04/2021 00:47	WG1768143
cis-1,3-Dichloropropene	U		0.000885	0.00292	1	11/04/2021 00:47	WG1768143
trans-1,3-Dichloropropene	U		0.00133	0.00584	1	11/04/2021 00:47	WG1768143
2,2-Dichloropropane	U		0.00161	0.00292	1	11/04/2021 00:47	WG1768143
Di-isopropyl ether	U		0.000479	0.00117	1	11/04/2021 00:47	WG1768143
Ethylbenzene	0.00264	J	0.000861	0.00292	1	11/04/2021 00:47	WG1768143
Hexachloro-1,3-butadiene	U		0.00701	0.0292	1	11/04/2021 00:47	WG1768143
n-Hexane	U		0.00264	0.00584	1	11/04/2021 00:47	WG1768143
Isopropylbenzene	0.00183	J	0.000497	0.00292	1	11/04/2021 00:47	WG1768143
p-Isopropyltoluene	0.00427	J	0.00298	0.00584	1	11/04/2021 00:47	WG1768143
2-Butanone (MEK)	U		0.0742	0.117	1	11/04/2021 00:47	WG1768143

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U	J4	0.00776	0.0292	1	11/04/2021 00:47	WG1768143
4-Methyl-2-pentanone (MIBK)	U		0.00266	0.0292	1	11/04/2021 00:47	WG1768143
Methyl tert-butyl ether	U		0.000409	0.00117	1	11/04/2021 00:47	WG1768143
Naphthalene	0.0169		0.00570	0.0146	1	11/04/2021 00:47	WG1768143
n-Propylbenzene	0.00335	J	0.00111	0.00584	1	11/04/2021 00:47	WG1768143
Styrene	U		0.000268	0.0146	1	11/04/2021 00:47	WG1768143
1,1,1,2-Tetrachloroethane	U		0.00111	0.00292	1	11/04/2021 00:47	WG1768143
1,1,2,2-Tetrachloroethane	U		0.000812	0.00292	1	11/04/2021 00:47	WG1768143
Tetrachloroethene	0.00841		0.00105	0.00292	1	11/04/2021 00:47	WG1768143
Toluene	0.00511	J	0.00152	0.00584	1	11/04/2021 00:47	WG1768143
1,2,3-Trichlorobenzene	U		0.00857	0.0146	1	11/04/2021 00:47	WG1768143
1,2,4-Trichlorobenzene	U		0.00514	0.0146	1	11/04/2021 00:47	WG1768143
1,1,1-Trichloroethane	U		0.00108	0.00292	1	11/04/2021 00:47	WG1768143
1,1,2-Trichloroethane	U		0.000698	0.00292	1	11/04/2021 00:47	WG1768143
Trichloroethene	0.00645		0.000682	0.00117	1	11/04/2021 00:47	WG1768143
Trichlorofluoromethane	U		0.000966	0.00292	1	11/04/2021 00:47	WG1768143
1,2,3-Trichloropropane	U		0.00189	0.0146	1	11/04/2021 00:47	WG1768143
1,2,4-Trimethylbenzene	0.0180		0.00185	0.00584	1	11/04/2021 00:47	WG1768143
1,3,5-Trimethylbenzene	0.0114		0.00234	0.00584	1	11/04/2021 00:47	WG1768143
Vinyl chloride	U		0.00136	0.00292	1	11/04/2021 00:47	WG1768143
Xylenes, Total	0.0193		0.00103	0.00760	1	11/04/2021 00:47	WG1768143
(S) Toluene-d8	*103*			*75.0-131*		*11/04/2021 00:47*	WG1768143
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*11/04/2021 00:47*	WG1768143
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*		*11/04/2021 00:47*	WG1768143

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	12.5	Q	0.658	4.31	1	12/04/2021 13:56	WG1783638
C20-C34 Hydrocarbons	67.7	Q	0.659	4.31	1	12/04/2021 13:56	WG1783638
(S) o-Terphenyl	*83.4*			*18.0-148*		*12/04/2021 13:56*	WG1783638

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.9		1	11/02/2021 12:00	WG1766889

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	U		1.18	3.47	25	10/31/2021 03:44	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*94.5*			*77.0-120*		*10/31/2021 03:44*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0507	0.0694	1	11/04/2021 01:06	WG1768143
Acrylonitrile	U		0.00501	0.0173	1	11/04/2021 01:06	WG1768143
Benzene	U		0.000648	0.00139	1	11/04/2021 01:06	WG1768143
Bromobenzene	U		0.00125	0.0173	1	11/04/2021 01:06	WG1768143
Bromodichloromethane	U		0.00101	0.00347	1	11/04/2021 01:06	WG1768143
Bromoform	U		0.00162	0.0347	1	11/04/2021 01:06	WG1768143
Bromomethane	U		0.00273	0.0173	1	11/04/2021 01:06	WG1768143
n-Butylbenzene	U		0.00729	0.0173	1	11/04/2021 01:06	WG1768143
sec-Butylbenzene	U		0.00400	0.0173	1	11/04/2021 01:06	WG1768143
tert-Butylbenzene	U		0.00271	0.00694	1	11/04/2021 01:06	WG1768143
Carbon tetrachloride	U		0.00125	0.00694	1	11/04/2021 01:06	WG1768143
Chlorobenzene	U		0.000291	0.00347	1	11/04/2021 01:06	WG1768143
Chlorodibromomethane	U		0.000849	0.00347	1	11/04/2021 01:06	WG1768143
Chloroethane	U		0.00236	0.00694	1	11/04/2021 01:06	WG1768143
Chloroform	U		0.00143	0.00347	1	11/04/2021 01:06	WG1768143
Chloromethane	U		0.00604	0.0173	1	11/04/2021 01:06	WG1768143
2-Chlorotoluene	U		0.00120	0.00347	1	11/04/2021 01:06	WG1768143
4-Chlorotoluene	U		0.000625	0.00694	1	11/04/2021 01:06	WG1768143
1,2-Dibromo-3-Chloropropane	U		0.00541	0.0347	1	11/04/2021 01:06	WG1768143
1,2-Dibromoethane	U		0.000899	0.00347	1	11/04/2021 01:06	WG1768143
Dibromomethane	U		0.00104	0.00694	1	11/04/2021 01:06	WG1768143
1,2-Dichlorobenzene	U		0.000590	0.00694	1	11/04/2021 01:06	WG1768143
1,3-Dichlorobenzene	U		0.000833	0.00694	1	11/04/2021 01:06	WG1768143
1,4-Dichlorobenzene	U		0.000972	0.00694	1	11/04/2021 01:06	WG1768143
Dichlorodifluoromethane	U		0.00223	0.00347	1	11/04/2021 01:06	WG1768143
1,1-Dichloroethane	U		0.000681	0.00347	1	11/04/2021 01:06	WG1768143
1,2-Dichloroethane	U		0.000901	0.00347	1	11/04/2021 01:06	WG1768143
1,1-Dichloroethene	U		0.000841	0.00347	1	11/04/2021 01:06	WG1768143
cis-1,2-Dichloroethene	U		0.00102	0.00347	1	11/04/2021 01:06	WG1768143
trans-1,2-Dichloroethene	U		0.00144	0.00694	1	11/04/2021 01:06	WG1768143
1,2-Dichloropropane	U		0.00197	0.00694	1	11/04/2021 01:06	WG1768143
1,1-Dichloropropene	U		0.00112	0.00347	1	11/04/2021 01:06	WG1768143
1,3-Dichloropropane	U		0.000695	0.00694	1	11/04/2021 01:06	WG1768143
cis-1,3-Dichloropropene	U		0.00105	0.00347	1	11/04/2021 01:06	WG1768143
trans-1,3-Dichloropropene	U		0.00158	0.00694	1	11/04/2021 01:06	WG1768143
2,2-Dichloropropane	U		0.00192	0.00347	1	11/04/2021 01:06	WG1768143
Di-isopropyl ether	U		0.000569	0.00139	1	11/04/2021 01:06	WG1768143
Ethylbenzene	U		0.00102	0.00347	1	11/04/2021 01:06	WG1768143
Hexachloro-1,3-butadiene	U		0.00833	0.0347	1	11/04/2021 01:06	WG1768143
n-Hexane	U		0.00314	0.00694	1	11/04/2021 01:06	WG1768143
Isopropylbenzene	U		0.000590	0.00347	1	11/04/2021 01:06	WG1768143
p-Isopropyltoluene	U		0.00354	0.00694	1	11/04/2021 01:06	WG1768143
2-Butanone (MEK)	U		0.0881	0.139	1	11/04/2021 01:06	WG1768143

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U	J4	0.00922	0.0347	1	11/04/2021 01:06	WG1768143
4-Methyl-2-pentanone (MIBK)	U		0.00316	0.0347	1	11/04/2021 01:06	WG1768143
Methyl tert-butyl ether	U		0.000486	0.00139	1	11/04/2021 01:06	WG1768143
Naphthalene	U		0.00677	0.0173	1	11/04/2021 01:06	WG1768143
n-Propylbenzene	U		0.00132	0.00694	1	11/04/2021 01:06	WG1768143
Styrene	U		0.000318	0.0173	1	11/04/2021 01:06	WG1768143
1,1,1,2-Tetrachloroethane	U		0.00132	0.00347	1	11/04/2021 01:06	WG1768143
1,1,2,2-Tetrachloroethane	U		0.000965	0.00347	1	11/04/2021 01:06	WG1768143
Tetrachloroethene	U		0.00124	0.00347	1	11/04/2021 01:06	WG1768143
Toluene	U		0.00180	0.00694	1	11/04/2021 01:06	WG1768143
1,2,3-Trichlorobenzene	U		0.0102	0.0173	1	11/04/2021 01:06	WG1768143
1,2,4-Trichlorobenzene	U		0.00611	0.0173	1	11/04/2021 01:06	WG1768143
1,1,1-Trichloroethane	U		0.00128	0.00347	1	11/04/2021 01:06	WG1768143
1,1,2-Trichloroethane	U		0.000829	0.00347	1	11/04/2021 01:06	WG1768143
Trichloroethene	U		0.000811	0.00139	1	11/04/2021 01:06	WG1768143
Trichlorofluoromethane	U		0.00115	0.00347	1	11/04/2021 01:06	WG1768143
1,2,3-Trichloropropane	U		0.00225	0.0173	1	11/04/2021 01:06	WG1768143
1,2,4-Trimethylbenzene	U		0.00219	0.00694	1	11/04/2021 01:06	WG1768143
1,3,5-Trimethylbenzene	U		0.00278	0.00694	1	11/04/2021 01:06	WG1768143
Vinyl chloride	U		0.00161	0.00347	1	11/04/2021 01:06	WG1768143
Xylenes, Total	U		0.00122	0.00902	1	11/04/2021 01:06	WG1768143
(S) Toluene-d8	*105*			*75.0-131*		*11/04/2021 01:06*	WG1768143
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*11/04/2021 01:06*	WG1768143
(S) 1,2-Dichloroethane-d4	*98.3*			*70.0-130*		*11/04/2021 01:06*	WG1768143

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	0.966	J	0.710	4.66	1	11/03/2021 23:03	WG1768215
C20-C34 Hydrocarbons	1.03	J	0.711	4.66	1	11/03/2021 23:03	WG1768215
(S) o-Terphenyl	*43.0*			*18.0-148*		*11/03/2021 23:03*	WG1768215

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.0137	0.0396	1	11/08/2021 04:03	WG1769931
PCB 1221	U		0.0137	0.0396	1	11/08/2021 04:03	WG1769931
PCB 1232	U		0.0137	0.0396	1	11/08/2021 04:03	WG1769931
PCB 1242	U		0.0137	0.0396	1	11/08/2021 04:03	WG1769931
PCB 1248	U		0.00859	0.0198	1	11/08/2021 04:03	WG1769931
PCB 1254	U		0.00859	0.0198	1	11/08/2021 04:03	WG1769931
PCB 1260	U		0.00859	0.0198	1	11/08/2021 04:03	WG1769931
(S) Decachlorobiphenyl	*74.0*			*10.0-135*		*11/08/2021 04:03*	WG1769931
(S) Tetrachloro-m-xylene	*68.6*			*10.0-139*		*11/08/2021 04:03*	WG1769931

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.2		1	11/02/2021 12:00	WG1766889

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	U		1.16	3.42	25	10/31/2021 04:06	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*94.9*			*77.0-120*		*10/31/2021 04:06*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0499	0.0684	1	11/04/2021 01:25	WG1768143
Acrylonitrile	U		0.00494	0.0171	1	11/04/2021 01:25	WG1768143
Benzene	U		0.000639	0.00137	1	11/04/2021 01:25	WG1768143
Bromobenzene	U		0.00123	0.0171	1	11/04/2021 01:25	WG1768143
Bromodichloromethane	U		0.000991	0.00342	1	11/04/2021 01:25	WG1768143
Bromoform	U		0.00160	0.0342	1	11/04/2021 01:25	WG1768143
Bromomethane	U		0.00269	0.0171	1	11/04/2021 01:25	WG1768143
n-Butylbenzene	U		0.00718	0.0171	1	11/04/2021 01:25	WG1768143
sec-Butylbenzene	U		0.00394	0.0171	1	11/04/2021 01:25	WG1768143
tert-Butylbenzene	U		0.00267	0.00684	1	11/04/2021 01:25	WG1768143
Carbon tetrachloride	U		0.00123	0.00684	1	11/04/2021 01:25	WG1768143
Chlorobenzene	U		0.000287	0.00342	1	11/04/2021 01:25	WG1768143
Chlorodibromomethane	U		0.000837	0.00342	1	11/04/2021 01:25	WG1768143
Chloroethane	U		0.00232	0.00684	1	11/04/2021 01:25	WG1768143
Chloroform	U		0.00141	0.00342	1	11/04/2021 01:25	WG1768143
Chloromethane	U		0.00595	0.0171	1	11/04/2021 01:25	WG1768143
2-Chlorotoluene	U		0.00118	0.00342	1	11/04/2021 01:25	WG1768143
4-Chlorotoluene	U		0.000615	0.00684	1	11/04/2021 01:25	WG1768143
1,2-Dibromo-3-Chloropropane	U		0.00533	0.0342	1	11/04/2021 01:25	WG1768143
1,2-Dibromoethane	U		0.000886	0.00342	1	11/04/2021 01:25	WG1768143
Dibromomethane	U		0.00103	0.00684	1	11/04/2021 01:25	WG1768143
1,2-Dichlorobenzene	U		0.000581	0.00684	1	11/04/2021 01:25	WG1768143
1,3-Dichlorobenzene	U		0.000820	0.00684	1	11/04/2021 01:25	WG1768143
1,4-Dichlorobenzene	U		0.000957	0.00684	1	11/04/2021 01:25	WG1768143
Dichlorodifluoromethane	U		0.00220	0.00342	1	11/04/2021 01:25	WG1768143
1,1-Dichloroethane	U		0.000671	0.00342	1	11/04/2021 01:25	WG1768143
1,2-Dichloroethane	U		0.000887	0.00342	1	11/04/2021 01:25	WG1768143
1,1-Dichloroethene	U		0.000829	0.00342	1	11/04/2021 01:25	WG1768143
cis-1,2-Dichloroethene	U		0.00100	0.00342	1	11/04/2021 01:25	WG1768143
trans-1,2-Dichloroethene	U		0.00142	0.00684	1	11/04/2021 01:25	WG1768143
1,2-Dichloropropane	U		0.00194	0.00684	1	11/04/2021 01:25	WG1768143
1,1-Dichloropropene	U		0.00111	0.00342	1	11/04/2021 01:25	WG1768143
1,3-Dichloropropane	U		0.000685	0.00684	1	11/04/2021 01:25	WG1768143
cis-1,3-Dichloropropene	U		0.00104	0.00342	1	11/04/2021 01:25	WG1768143
trans-1,3-Dichloropropene	U		0.00156	0.00684	1	11/04/2021 01:25	WG1768143
2,2-Dichloropropane	U		0.00189	0.00342	1	11/04/2021 01:25	WG1768143
Di-isopropyl ether	U		0.000561	0.00137	1	11/04/2021 01:25	WG1768143
Ethylbenzene	U		0.00101	0.00342	1	11/04/2021 01:25	WG1768143
Hexachloro-1,3-butadiene	U		0.00820	0.0342	1	11/04/2021 01:25	WG1768143
n-Hexane	U		0.00309	0.00684	1	11/04/2021 01:25	WG1768143
Isopropylbenzene	U		0.000581	0.00342	1	11/04/2021 01:25	WG1768143
p-Isopropyltoluene	U		0.00349	0.00684	1	11/04/2021 01:25	WG1768143
2-Butanone (MEK)	U		0.0868	0.137	1	11/04/2021 01:25	WG1768143

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U	J4	0.00908	0.0342	1	11/04/2021 01:25	WG1768143
4-Methyl-2-pentanone (MIBK)	U		0.00312	0.0342	1	11/04/2021 01:25	WG1768143
Methyl tert-butyl ether	U		0.000479	0.00137	1	11/04/2021 01:25	WG1768143
Naphthalene	U		0.00667	0.0171	1	11/04/2021 01:25	WG1768143
n-Propylbenzene	U		0.00130	0.00684	1	11/04/2021 01:25	WG1768143
Styrene	U		0.000313	0.0171	1	11/04/2021 01:25	WG1768143
1,1,1,2-Tetrachloroethane	U		0.00130	0.00342	1	11/04/2021 01:25	WG1768143
1,1,2,2-Tetrachloroethane	U		0.000950	0.00342	1	11/04/2021 01:25	WG1768143
Tetrachloroethene	U		0.00123	0.00342	1	11/04/2021 01:25	WG1768143
Toluene	U		0.00178	0.00684	1	11/04/2021 01:25	WG1768143
1,2,3-Trichlorobenzene	U		0.0100	0.0171	1	11/04/2021 01:25	WG1768143
1,2,4-Trichlorobenzene	U		0.00602	0.0171	1	11/04/2021 01:25	WG1768143
1,1,1-Trichloroethane	U		0.00126	0.00342	1	11/04/2021 01:25	WG1768143
1,1,2-Trichloroethane	U		0.000816	0.00342	1	11/04/2021 01:25	WG1768143
Trichloroethene	0.00490		0.000799	0.00137	1	11/04/2021 01:25	WG1768143
Trichlorofluoromethane	U		0.00113	0.00342	1	11/04/2021 01:25	WG1768143
1,2,3-Trichloropropane	U		0.00222	0.0171	1	11/04/2021 01:25	WG1768143
1,2,4-Trimethylbenzene	U		0.00216	0.00684	1	11/04/2021 01:25	WG1768143
1,3,5-Trimethylbenzene	U		0.00273	0.00684	1	11/04/2021 01:25	WG1768143
Vinyl chloride	U		0.00159	0.00342	1	11/04/2021 01:25	WG1768143
Xylenes, Total	U		0.00120	0.00889	1	11/04/2021 01:25	WG1768143
(S) Toluene-d8	*103*			*75.0-131*		*11/04/2021 01:25*	WG1768143
(S) 4-Bromofluorobenzene	*98.0*			*67.0-138*		*11/04/2021 01:25*	WG1768143
(S) 1,2-Dichloroethane-d4	*99.7*			*70.0-130*		*11/04/2021 01:25*	WG1768143

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	U		0.708	4.64	1	11/03/2021 23:16	WG1768215
C20-C34 Hydrocarbons	U		0.709	4.64	1	11/03/2021 23:16	WG1768215
(S) o-Terphenyl	*56.8*			*18.0-148*		*11/03/2021 23:16*	WG1768215

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.7		1	11/02/2021 12:00	WG1766889

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	1.81	J	1.19	3.51	25	10/31/2021 04:27	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*77.0-120*		*10/31/2021 04:27*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0513	0.0702	1	11/04/2021 01:44	WG1768143
Acrylonitrile	U		0.00507	0.0176	1	11/04/2021 01:44	WG1768143
Benzene	0.00140	J	0.000656	0.00140	1	11/04/2021 01:44	WG1768143
Bromobenzene	U		0.00126	0.0176	1	11/04/2021 01:44	WG1768143
Bromodichloromethane	U		0.00102	0.00351	1	11/04/2021 01:44	WG1768143
Bromoform	U		0.00164	0.0351	1	11/04/2021 01:44	WG1768143
Bromomethane	U		0.00277	0.0176	1	11/04/2021 01:44	WG1768143
n-Butylbenzene	U		0.00737	0.0176	1	11/04/2021 01:44	WG1768143
sec-Butylbenzene	U		0.00404	0.0176	1	11/04/2021 01:44	WG1768143
tert-Butylbenzene	U		0.00274	0.00702	1	11/04/2021 01:44	WG1768143
Carbon tetrachloride	U		0.00126	0.00702	1	11/04/2021 01:44	WG1768143
Chlorobenzene	U		0.000295	0.00351	1	11/04/2021 01:44	WG1768143
Chlorodibromomethane	U		0.000860	0.00351	1	11/04/2021 01:44	WG1768143
Chloroethane	U		0.00239	0.00702	1	11/04/2021 01:44	WG1768143
Chloroform	U		0.00145	0.00351	1	11/04/2021 01:44	WG1768143
Chloromethane	U		0.00611	0.0176	1	11/04/2021 01:44	WG1768143
2-Chlorotoluene	U		0.00121	0.00351	1	11/04/2021 01:44	WG1768143
4-Chlorotoluene	U		0.000632	0.00702	1	11/04/2021 01:44	WG1768143
1,2-Dibromo-3-Chloropropane	U		0.00548	0.0351	1	11/04/2021 01:44	WG1768143
1,2-Dibromoethane	U		0.000910	0.00351	1	11/04/2021 01:44	WG1768143
Dibromomethane	U		0.00105	0.00702	1	11/04/2021 01:44	WG1768143
1,2-Dichlorobenzene	U		0.000597	0.00702	1	11/04/2021 01:44	WG1768143
1,3-Dichlorobenzene	U		0.000843	0.00702	1	11/04/2021 01:44	WG1768143
1,4-Dichlorobenzene	U		0.000983	0.00702	1	11/04/2021 01:44	WG1768143
Dichlorodifluoromethane	U		0.00226	0.00351	1	11/04/2021 01:44	WG1768143
1,1-Dichloroethane	0.00583		0.000690	0.00351	1	11/04/2021 01:44	WG1768143
1,2-Dichloroethane	U		0.000911	0.00351	1	11/04/2021 01:44	WG1768143
1,1-Dichloroethene	U		0.000851	0.00351	1	11/04/2021 01:44	WG1768143
cis-1,2-Dichloroethene	0.0256		0.00103	0.00351	1	11/04/2021 01:44	WG1768143
trans-1,2-Dichloroethene	U		0.00146	0.00702	1	11/04/2021 01:44	WG1768143
1,2-Dichloropropane	U		0.00199	0.00702	1	11/04/2021 01:44	WG1768143
1,1-Dichloropropene	U		0.00114	0.00351	1	11/04/2021 01:44	WG1768143
1,3-Dichloropropane	U		0.000704	0.00702	1	11/04/2021 01:44	WG1768143
cis-1,3-Dichloropropene	U		0.00106	0.00351	1	11/04/2021 01:44	WG1768143
trans-1,3-Dichloropropene	U		0.00160	0.00702	1	11/04/2021 01:44	WG1768143
2,2-Dichloropropane	U		0.00194	0.00351	1	11/04/2021 01:44	WG1768143
Di-isopropyl ether	U		0.000576	0.00140	1	11/04/2021 01:44	WG1768143
Ethylbenzene	U		0.00104	0.00351	1	11/04/2021 01:44	WG1768143
Hexachloro-1,3-butadiene	U		0.00843	0.0351	1	11/04/2021 01:44	WG1768143
n-Hexane	U		0.00317	0.00702	1	11/04/2021 01:44	WG1768143
Isopropylbenzene	U		0.000597	0.00351	1	11/04/2021 01:44	WG1768143
p-Isopropyltoluene	U		0.00358	0.00702	1	11/04/2021 01:44	WG1768143
2-Butanone (MEK)	U		0.0892	0.140	1	11/04/2021 01:44	WG1768143

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U	J4	0.00933	0.0351	1	11/04/2021 01:44	WG1768143
4-Methyl-2-pentanone (MIBK)	U		0.00320	0.0351	1	11/04/2021 01:44	WG1768143
Methyl tert-butyl ether	U		0.000492	0.00140	1	11/04/2021 01:44	WG1768143
Naphthalene	U		0.00685	0.0176	1	11/04/2021 01:44	WG1768143
n-Propylbenzene	U		0.00133	0.00702	1	11/04/2021 01:44	WG1768143
Styrene	U		0.000322	0.0176	1	11/04/2021 01:44	WG1768143
1,1,1,2-Tetrachloroethane	U		0.00133	0.00351	1	11/04/2021 01:44	WG1768143
1,1,2,2-Tetrachloroethane	U		0.000976	0.00351	1	11/04/2021 01:44	WG1768143
Tetrachloroethene	U		0.00126	0.00351	1	11/04/2021 01:44	WG1768143
Toluene	U		0.00183	0.00702	1	11/04/2021 01:44	WG1768143
1,2,3-Trichlorobenzene	U		0.0103	0.0176	1	11/04/2021 01:44	WG1768143
1,2,4-Trichlorobenzene	U		0.00618	0.0176	1	11/04/2021 01:44	WG1768143
1,1,1-Trichloroethane	U		0.00130	0.00351	1	11/04/2021 01:44	WG1768143
1,1,2-Trichloroethane	U		0.000838	0.00351	1	11/04/2021 01:44	WG1768143
Trichloroethene	0.347		0.000820	0.00140	1	11/04/2021 01:44	WG1768143
Trichlorofluoromethane	U		0.00116	0.00351	1	11/04/2021 01:44	WG1768143
1,2,3-Trichloropropane	U		0.00228	0.0176	1	11/04/2021 01:44	WG1768143
1,2,4-Trimethylbenzene	U		0.00222	0.00702	1	11/04/2021 01:44	WG1768143
1,3,5-Trimethylbenzene	U		0.00281	0.00702	1	11/04/2021 01:44	WG1768143
Vinyl chloride	U		0.00163	0.00351	1	11/04/2021 01:44	WG1768143
Xylenes, Total	0.00229	J	0.00124	0.00913	1	11/04/2021 01:44	WG1768143
(S) Toluene-d8	*103*			*75.0-131*		*11/04/2021 01:44*	WG1768143
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*11/04/2021 01:44*	WG1768143
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/04/2021 01:44*	WG1768143

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	8.33		0.712	4.67	1	11/03/2021 23:29	WG1768215
C20-C34 Hydrocarbons	9.26		0.713	4.67	1	11/03/2021 23:29	WG1768215
(S) o-Terphenyl	*47.7*			*18.0-148*		*11/03/2021 23:29*	WG1768215

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.6		1	11/02/2021 12:00	WG1766889

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	1.20	J	1.11	3.26	25	10/31/2021 04:49	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*93.1*			*77.0-120*		*10/31/2021 04:49*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0476	0.0652	1	11/04/2021 02:03	WG1768143
Acrylonitrile	U		0.00471	0.0163	1	11/04/2021 02:03	WG1768143
Benzene	0.00434		0.000609	0.00130	1	11/04/2021 02:03	WG1768143
Bromobenzene	U		0.00117	0.0163	1	11/04/2021 02:03	WG1768143
Bromodichloromethane	U		0.000946	0.00326	1	11/04/2021 02:03	WG1768143
Bromoform	U		0.00153	0.0326	1	11/04/2021 02:03	WG1768143
Bromomethane	U		0.00257	0.0163	1	11/04/2021 02:03	WG1768143
n-Butylbenzene	U		0.00685	0.0163	1	11/04/2021 02:03	WG1768143
sec-Butylbenzene	U		0.00376	0.0163	1	11/04/2021 02:03	WG1768143
tert-Butylbenzene	U		0.00254	0.00652	1	11/04/2021 02:03	WG1768143
Carbon tetrachloride	U		0.00117	0.00652	1	11/04/2021 02:03	WG1768143
Chlorobenzene	U		0.000274	0.00326	1	11/04/2021 02:03	WG1768143
Chlorodibromomethane	U		0.000798	0.00326	1	11/04/2021 02:03	WG1768143
Chloroethane	U		0.00222	0.00652	1	11/04/2021 02:03	WG1768143
Chloroform	U		0.00134	0.00326	1	11/04/2021 02:03	WG1768143
Chloromethane	U		0.00568	0.0163	1	11/04/2021 02:03	WG1768143
2-Chlorotoluene	U		0.00113	0.00326	1	11/04/2021 02:03	WG1768143
4-Chlorotoluene	U		0.000587	0.00652	1	11/04/2021 02:03	WG1768143
1,2-Dibromo-3-Chloropropane	U		0.00509	0.0326	1	11/04/2021 02:03	WG1768143
1,2-Dibromoethane	U		0.000845	0.00326	1	11/04/2021 02:03	WG1768143
Dibromomethane	U		0.000978	0.00652	1	11/04/2021 02:03	WG1768143
1,2-Dichlorobenzene	U		0.000554	0.00652	1	11/04/2021 02:03	WG1768143
1,3-Dichlorobenzene	U		0.000783	0.00652	1	11/04/2021 02:03	WG1768143
1,4-Dichlorobenzene	U		0.000913	0.00652	1	11/04/2021 02:03	WG1768143
Dichlorodifluoromethane	U		0.00210	0.00326	1	11/04/2021 02:03	WG1768143
1,1-Dichloroethane	U		0.000641	0.00326	1	11/04/2021 02:03	WG1768143
1,2-Dichloroethane	U		0.000847	0.00326	1	11/04/2021 02:03	WG1768143
1,1-Dichloroethene	U		0.000791	0.00326	1	11/04/2021 02:03	WG1768143
cis-1,2-Dichloroethene	U		0.000958	0.00326	1	11/04/2021 02:03	WG1768143
trans-1,2-Dichloroethene	U		0.00136	0.00652	1	11/04/2021 02:03	WG1768143
1,2-Dichloropropane	U		0.00185	0.00652	1	11/04/2021 02:03	WG1768143
1,1-Dichloropropene	U		0.00106	0.00326	1	11/04/2021 02:03	WG1768143
1,3-Dichloropropane	U		0.000654	0.00652	1	11/04/2021 02:03	WG1768143
cis-1,3-Dichloropropene	U		0.000988	0.00326	1	11/04/2021 02:03	WG1768143
trans-1,3-Dichloropropene	U		0.00149	0.00652	1	11/04/2021 02:03	WG1768143
2,2-Dichloropropane	U		0.00180	0.00326	1	11/04/2021 02:03	WG1768143
Di-isopropyl ether	U		0.000535	0.00130	1	11/04/2021 02:03	WG1768143
Ethylbenzene	0.0120		0.000962	0.00326	1	11/04/2021 02:03	WG1768143
Hexachloro-1,3-butadiene	U		0.00783	0.0326	1	11/04/2021 02:03	WG1768143
n-Hexane	U		0.00295	0.00652	1	11/04/2021 02:03	WG1768143
Isopropylbenzene	0.00789		0.000554	0.00326	1	11/04/2021 02:03	WG1768143
p-Isopropyltoluene	U		0.00333	0.00652	1	11/04/2021 02:03	WG1768143
2-Butanone (MEK)	U		0.0828	0.130	1	11/04/2021 02:03	WG1768143

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U	J4	0.00866	0.0326	1	11/04/2021 02:03	WG1768143
4-Methyl-2-pentanone (MIBK)	U		0.00297	0.0326	1	11/04/2021 02:03	WG1768143
Methyl tert-butyl ether	U		0.000457	0.00130	1	11/04/2021 02:03	WG1768143
Naphthalene	0.0384		0.00637	0.0163	1	11/04/2021 02:03	WG1768143
n-Propylbenzene	0.0121		0.00124	0.00652	1	11/04/2021 02:03	WG1768143
Styrene	U		0.000299	0.0163	1	11/04/2021 02:03	WG1768143
1,1,1,2-Tetrachloroethane	U		0.00124	0.00326	1	11/04/2021 02:03	WG1768143
1,1,2,2-Tetrachloroethane	U		0.000907	0.00326	1	11/04/2021 02:03	WG1768143
Tetrachloroethene	U		0.00117	0.00326	1	11/04/2021 02:03	WG1768143
Toluene	0.0378		0.00170	0.00652	1	11/04/2021 02:03	WG1768143
1,2,3-Trichlorobenzene	U		0.00956	0.0163	1	11/04/2021 02:03	WG1768143
1,2,4-Trichlorobenzene	U		0.00574	0.0163	1	11/04/2021 02:03	WG1768143
1,1,1-Trichloroethane	U		0.00120	0.00326	1	11/04/2021 02:03	WG1768143
1,1,2-Trichloroethane	U		0.000779	0.00326	1	11/04/2021 02:03	WG1768143
Trichloroethene	U		0.000762	0.00130	1	11/04/2021 02:03	WG1768143
Trichlorofluoromethane	U		0.00108	0.00326	1	11/04/2021 02:03	WG1768143
1,2,3-Trichloropropane	U		0.00211	0.0163	1	11/04/2021 02:03	WG1768143
1,2,4-Trimethylbenzene	0.0159		0.00206	0.00652	1	11/04/2021 02:03	WG1768143
1,3,5-Trimethylbenzene	0.00360	J	0.00261	0.00652	1	11/04/2021 02:03	WG1768143
Vinyl chloride	U		0.00151	0.00326	1	11/04/2021 02:03	WG1768143
Xylenes, Total	0.0665		0.00115	0.00848	1	11/04/2021 02:03	WG1768143
(S) Toluene-d8	*103*			*75.0-131*		*11/04/2021 02:03*	WG1768143
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/04/2021 02:03*	WG1768143
(S) 1,2-Dichloroethane-d4	*97.3*			*70.0-130*		*11/04/2021 02:03*	WG1768143

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	9.13		0.689	4.52	1	11/04/2021 00:45	WG1768215
C20-C34 Hydrocarbons	42.9		0.690	4.52	1	11/04/2021 00:45	WG1768215
(S) o-Terphenyl	*54.0*			*18.0-148*		*11/04/2021 00:45*	WG1768215

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.3		1	11/02/2021 12:00	WG1766889

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C6 - C12	U		1.21	3.56	25	10/31/2021 05:11	WG1766195
(S) a,a,a-Trifluorotoluene(FID)	*93.6*			*77.0-120*		*10/31/2021 05:11*	WG1766195

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0520	0.0713	1	11/04/2021 02:22	WG1768143
Acrylonitrile	U		0.00515	0.0178	1	11/04/2021 02:22	WG1768143
Benzene	U		0.000666	0.00143	1	11/04/2021 02:22	WG1768143
Bromobenzene	U		0.00128	0.0178	1	11/04/2021 02:22	WG1768143
Bromodichloromethane	U		0.00103	0.00356	1	11/04/2021 02:22	WG1768143
Bromoform	U		0.00167	0.0356	1	11/04/2021 02:22	WG1768143
Bromomethane	U		0.00281	0.0178	1	11/04/2021 02:22	WG1768143
n-Butylbenzene	U		0.00748	0.0178	1	11/04/2021 02:22	WG1768143
sec-Butylbenzene	U		0.00411	0.0178	1	11/04/2021 02:22	WG1768143
tert-Butylbenzene	U		0.00278	0.00713	1	11/04/2021 02:22	WG1768143
Carbon tetrachloride	U		0.00128	0.00713	1	11/04/2021 02:22	WG1768143
Chlorobenzene	U		0.000299	0.00356	1	11/04/2021 02:22	WG1768143
Chlorodibromomethane	U		0.000872	0.00356	1	11/04/2021 02:22	WG1768143
Chloroethane	U		0.00242	0.00713	1	11/04/2021 02:22	WG1768143
Chloroform	U		0.00147	0.00356	1	11/04/2021 02:22	WG1768143
Chloromethane	U		0.00620	0.0178	1	11/04/2021 02:22	WG1768143
2-Chlorotoluene	U		0.00123	0.00356	1	11/04/2021 02:22	WG1768143
4-Chlorotoluene	U		0.000641	0.00713	1	11/04/2021 02:22	WG1768143
1,2-Dibromo-3-Chloropropane	U		0.00556	0.0356	1	11/04/2021 02:22	WG1768143
1,2-Dibromoethane	U		0.000924	0.00356	1	11/04/2021 02:22	WG1768143
Dibromomethane	U		0.00107	0.00713	1	11/04/2021 02:22	WG1768143
1,2-Dichlorobenzene	U		0.000606	0.00713	1	11/04/2021 02:22	WG1768143
1,3-Dichlorobenzene	U		0.000855	0.00713	1	11/04/2021 02:22	WG1768143
1,4-Dichlorobenzene	U		0.000998	0.00713	1	11/04/2021 02:22	WG1768143
Dichlorodifluoromethane	U		0.00229	0.00356	1	11/04/2021 02:22	WG1768143
1,1-Dichloroethane	U		0.000700	0.00356	1	11/04/2021 02:22	WG1768143
1,2-Dichloroethane	U		0.000925	0.00356	1	11/04/2021 02:22	WG1768143
1,1-Dichloroethene	U		0.000864	0.00356	1	11/04/2021 02:22	WG1768143
cis-1,2-Dichloroethene	U		0.00105	0.00356	1	11/04/2021 02:22	WG1768143
trans-1,2-Dichloroethene	U		0.00148	0.00713	1	11/04/2021 02:22	WG1768143
1,2-Dichloropropane	U		0.00202	0.00713	1	11/04/2021 02:22	WG1768143
1,1-Dichloropropene	U		0.00115	0.00356	1	11/04/2021 02:22	WG1768143
1,3-Dichloropropane	U		0.000714	0.00713	1	11/04/2021 02:22	WG1768143
cis-1,3-Dichloropropene	U		0.00108	0.00356	1	11/04/2021 02:22	WG1768143
trans-1,3-Dichloropropene	U		0.00162	0.00713	1	11/04/2021 02:22	WG1768143
2,2-Dichloropropane	U		0.00197	0.00356	1	11/04/2021 02:22	WG1768143
Di-isopropyl ether	U		0.000584	0.00143	1	11/04/2021 02:22	WG1768143
Ethylbenzene	U		0.00105	0.00356	1	11/04/2021 02:22	WG1768143
Hexachloro-1,3-butadiene	U		0.00855	0.0356	1	11/04/2021 02:22	WG1768143
n-Hexane	U		0.00322	0.00713	1	11/04/2021 02:22	WG1768143
Isopropylbenzene	U		0.000606	0.00356	1	11/04/2021 02:22	WG1768143
p-Isopropyltoluene	U		0.00363	0.00713	1	11/04/2021 02:22	WG1768143
2-Butanone (MEK)	U		0.0905	0.143	1	11/04/2021 02:22	WG1768143

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methylene Chloride	U	J4	0.00946	0.0356	1	11/04/2021 02:22	WG1768143
4-Methyl-2-pentanone (MIBK)	U		0.00325	0.0356	1	11/04/2021 02:22	WG1768143
Methyl tert-butyl ether	U		0.000499	0.00143	1	11/04/2021 02:22	WG1768143
Naphthalene	U		0.00696	0.0178	1	11/04/2021 02:22	WG1768143
n-Propylbenzene	U		0.00135	0.00713	1	11/04/2021 02:22	WG1768143
Styrene	U		0.000326	0.0178	1	11/04/2021 02:22	WG1768143
1,1,1,2-Tetrachloroethane	U		0.00135	0.00356	1	11/04/2021 02:22	WG1768143
1,1,2,2-Tetrachloroethane	U		0.000991	0.00356	1	11/04/2021 02:22	WG1768143
Tetrachloroethene	U		0.00128	0.00356	1	11/04/2021 02:22	WG1768143
Toluene	U		0.00185	0.00713	1	11/04/2021 02:22	WG1768143
1,2,3-Trichlorobenzene	U		0.0104	0.0178	1	11/04/2021 02:22	WG1768143
1,2,4-Trichlorobenzene	U		0.00627	0.0178	1	11/04/2021 02:22	WG1768143
1,1,1-Trichloroethane	U		0.00132	0.00356	1	11/04/2021 02:22	WG1768143
1,1,2-Trichloroethane	U		0.000851	0.00356	1	11/04/2021 02:22	WG1768143
Trichloroethene	U		0.000832	0.00143	1	11/04/2021 02:22	WG1768143
Trichlorofluoromethane	U		0.00118	0.00356	1	11/04/2021 02:22	WG1768143
1,2,3-Trichloropropane	U		0.00231	0.0178	1	11/04/2021 02:22	WG1768143
1,2,4-Trimethylbenzene	U		0.00225	0.00713	1	11/04/2021 02:22	WG1768143
1,3,5-Trimethylbenzene	U		0.00285	0.00713	1	11/04/2021 02:22	WG1768143
Vinyl chloride	U		0.00165	0.00356	1	11/04/2021 02:22	WG1768143
Xylenes, Total	0.00143	J	0.00125	0.00927	1	11/04/2021 02:22	WG1768143
(S) Toluene-d8	*104*			*75.0-131*		*11/04/2021 02:22*	WG1768143
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*11/04/2021 02:22*	WG1768143
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/04/2021 02:22*	WG1768143

Semi-Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C20 Hydrocarbons	2.93	J	0.715	4.69	1	11/03/2021 23:41	WG1768215
C20-C34 Hydrocarbons	4.76		0.716	4.69	1	11/03/2021 23:41	WG1768215
(S) o-Terphenyl	*46.1*			*18.0-148*		*11/03/2021 23:41*	WG1768215

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00778		0.00270	0.00703	1	11/05/2021 21:27	WG1769470
Acenaphthene	U		0.00245	0.00703	1	11/05/2021 21:27	WG1769470
Acenaphthylene	0.00428	J	0.00253	0.00703	1	11/05/2021 21:27	WG1769470
Benzo(a)anthracene	0.0353		0.00203	0.00703	1	11/05/2021 21:27	WG1769470
Benzo(a)pyrene	0.0290		0.00210	0.00703	1	11/05/2021 21:27	WG1769470
Benzo(b)fluoranthene	0.0479		0.00179	0.00703	1	11/05/2021 21:27	WG1769470
Benzo(g,h,i)perylene	0.0234		0.00207	0.00703	1	11/05/2021 21:27	WG1769470
Benzo(k)fluoranthene	0.0150		0.00252	0.00703	1	11/05/2021 21:27	WG1769470
Chrysene	0.0423		0.00272	0.00703	1	11/05/2021 21:27	WG1769470
Dibenz(a,h)anthracene	0.00536	J	0.00202	0.00703	1	11/05/2021 21:27	WG1769470
Fluoranthene	0.0872		0.00266	0.00703	1	11/05/2021 21:27	WG1769470
Fluorene	U		0.00240	0.00703	1	11/05/2021 21:27	WG1769470
Indeno(1,2,3-cd)pyrene	0.0274		0.00212	0.00703	1	11/05/2021 21:27	WG1769470
Naphthalene	U		0.00478	0.0234	1	11/05/2021 21:27	WG1769470
Phenanthrene	0.0441		0.00271	0.00703	1	11/05/2021 21:27	WG1769470
Pyrene	0.0655		0.00234	0.00703	1	11/05/2021 21:27	WG1769470
1-Methylnaphthalene	U		0.00526	0.0234	1	11/05/2021 21:27	WG1769470
2-Methylnaphthalene	U		0.00501	0.0234	1	11/05/2021 21:27	WG1769470
2-Chloronaphthalene	U		0.00546	0.0234	1	11/05/2021 21:27	WG1769470
(S) Nitrobenzene-d5	*56.2*			*14.0-149*		*11/05/2021 21:27*	WG1769470

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	*66.7*			*34.0-125*		*11/05/2021 21:27*	WG1769470
(S) p-Terphenyl-d14	*79.5*			*23.0-120*		*11/05/2021 21:27*	WG1769470

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	10/31/2021 19:19	WG1766535
Acrolein	U	J3	0.00254	0.0500	1	10/31/2021 19:19	WG1766535
Acrylonitrile	U		0.000671	0.0100	1	10/31/2021 19:19	WG1766535
Benzene	U		0.0000941	0.00100	1	11/03/2021 23:50	WG1768174
Bromobenzene	U		0.000118	0.00100	1	10/31/2021 19:19	WG1766535
Bromodichloromethane	U		0.000136	0.00100	1	10/31/2021 19:19	WG1766535
Bromoform	U		0.000129	0.00100	1	10/31/2021 19:19	WG1766535
Bromomethane	U		0.000605	0.00500	1	10/31/2021 19:19	WG1766535
n-Butylbenzene	U		0.000157	0.00100	1	10/31/2021 19:19	WG1766535
sec-Butylbenzene	U		0.000125	0.00100	1	10/31/2021 19:19	WG1766535
tert-Butylbenzene	U		0.000127	0.00100	1	10/31/2021 19:19	WG1766535
Carbon tetrachloride	U		0.000128	0.00100	1	10/31/2021 19:19	WG1766535
Chlorobenzene	U		0.000116	0.00100	1	10/31/2021 19:19	WG1766535
Chlorodibromomethane	U		0.000140	0.00100	1	10/31/2021 19:19	WG1766535
Chloroethane	U		0.000192	0.00500	1	10/31/2021 19:19	WG1766535
Chloroform	0.000173	J	0.000111	0.00500	1	10/31/2021 19:19	WG1766535
Chloromethane	U		0.000960	0.00250	1	10/31/2021 19:19	WG1766535
2-Chlorotoluene	U		0.000106	0.00100	1	10/31/2021 19:19	WG1766535
4-Chlorotoluene	U		0.000114	0.00100	1	10/31/2021 19:19	WG1766535
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	10/31/2021 19:19	WG1766535
1,2-Dibromoethane	U		0.000126	0.00100	1	10/31/2021 19:19	WG1766535
Dibromomethane	U		0.000122	0.00100	1	10/31/2021 19:19	WG1766535
1,2-Dichlorobenzene	U		0.000107	0.00100	1	10/31/2021 19:19	WG1766535
1,3-Dichlorobenzene	U		0.000110	0.00100	1	10/31/2021 19:19	WG1766535
1,4-Dichlorobenzene	U		0.000120	0.00100	1	10/31/2021 19:19	WG1766535
Dichlorodifluoromethane	U		0.000374	0.00500	1	10/31/2021 19:19	WG1766535
1,1-Dichloroethane	U		0.000100	0.00100	1	10/31/2021 19:19	WG1766535
1,2-Dichloroethane	U		0.0000819	0.00100	1	10/31/2021 19:19	WG1766535
1,1-Dichloroethene	U		0.000188	0.00100	1	10/31/2021 19:19	WG1766535
cis-1,2-Dichloroethene	0.0160		0.000126	0.00100	1	10/31/2021 19:19	WG1766535
trans-1,2-Dichloroethene	0.00177		0.000149	0.00100	1	10/31/2021 19:19	WG1766535
1,2-Dichloropropane	U		0.000149	0.00100	1	10/31/2021 19:19	WG1766535
1,1-Dichloropropene	U		0.000142	0.00100	1	10/31/2021 19:19	WG1766535
1,3-Dichloropropane	U		0.000110	0.00100	1	10/31/2021 19:19	WG1766535
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	10/31/2021 19:19	WG1766535
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	10/31/2021 19:19	WG1766535
2,2-Dichloropropane	U		0.000161	0.00100	1	10/31/2021 19:19	WG1766535
Di-isopropyl ether	U		0.000105	0.00100	1	10/31/2021 19:19	WG1766535
Ethylbenzene	0.000256	J	0.000137	0.00100	1	10/31/2021 19:19	WG1766535
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	10/31/2021 19:19	WG1766535
n-Hexane	U		0.000749	0.0100	1	10/31/2021 19:19	WG1766535
Isopropylbenzene	U		0.000105	0.00100	1	10/31/2021 19:19	WG1766535
p-Isopropyltoluene	U		0.000120	0.00100	1	10/31/2021 19:19	WG1766535
2-Butanone (MEK)	U		0.00119	0.0100	1	10/31/2021 19:19	WG1766535
Methylene Chloride	U		0.000430	0.00500	1	10/31/2021 19:19	WG1766535
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	10/31/2021 19:19	WG1766535
Methyl tert-butyl ether	U		0.000101	0.00100	1	10/31/2021 19:19	WG1766535
Naphthalene	0.00210	J	0.00100	0.00500	1	10/31/2021 19:19	WG1766535
n-Propylbenzene	0.000182	J	0.0000993	0.00100	1	10/31/2021 19:19	WG1766535
Styrene	U	J4	0.000118	0.00100	1	10/31/2021 19:19	WG1766535
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	10/31/2021 19:19	WG1766535
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	10/31/2021 19:19	WG1766535
Tetrachloroethene	U		0.000300	0.00100	1	10/31/2021 19:19	WG1766535
Toluene	U		0.000278	0.00100	1	10/31/2021 19:19	WG1766535
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	10/31/2021 19:19	WG1766535
1,2,4-Trichlorobenzene	U		0.000481	0.00100	1	10/31/2021 19:19	WG1766535

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	0.000482	J	0.000149	0.00100	1	10/31/2021 19:19	WG1766535
1,1,2-Trichloroethane	U		0.000158	0.00100	1	10/31/2021 19:19	WG1766535
Trichloroethene	0.101		0.000190	0.00100	1	10/31/2021 19:19	WG1766535
Trichlorofluoromethane	U		0.000160	0.00500	1	10/31/2021 19:19	WG1766535
1,2,3-Trichloropropane	U		0.000237	0.00250	1	10/31/2021 19:19	WG1766535
1,2,4-Trimethylbenzene	0.00198		0.000322	0.00100	1	10/31/2021 19:19	WG1766535
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/31/2021 19:19	WG1766535
Vinyl chloride	U		0.000234	0.00100	1	10/31/2021 19:19	WG1766535
Xylenes, Total	0.000813	J	0.000174	0.00300	1	10/31/2021 19:19	WG1766535
(S) Toluene-d8	*102*			*80.0-120*		*10/31/2021 19:19*	WG1766535
(S) Toluene-d8	*109*			*80.0-120*		*11/03/2021 23:50*	WG1768174
(S) 4-Bromofluorobenzene	*94.4*			*77.0-126*		*10/31/2021 19:19*	WG1766535
(S) 4-Bromofluorobenzene	*81.3*			*77.0-126*		*11/03/2021 23:50*	WG1768174
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*10/31/2021 19:19*	WG1766535
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/03/2021 23:50*	WG1768174

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	11/06/2021 15:34	WG1769883
Acrolein	U		0.00254	0.0500	1	11/06/2021 15:34	WG1769883
Acrylonitrile	U		0.000671	0.0100	1	11/06/2021 15:34	WG1769883
Benzene	U		0.0000941	0.00100	1	11/06/2021 15:34	WG1769883
Bromobenzene	U		0.000118	0.00100	1	11/06/2021 15:34	WG1769883
Bromodichloromethane	U		0.000136	0.00100	1	11/06/2021 15:34	WG1769883
Bromoform	U		0.000129	0.00100	1	11/06/2021 15:34	WG1769883
Bromomethane	U		0.000605	0.00500	1	11/06/2021 15:34	WG1769883
n-Butylbenzene	U		0.000157	0.00100	1	11/06/2021 15:34	WG1769883
sec-Butylbenzene	U		0.000125	0.00100	1	11/06/2021 15:34	WG1769883
tert-Butylbenzene	U		0.000127	0.00100	1	11/06/2021 15:34	WG1769883
Carbon tetrachloride	U		0.000128	0.00100	1	11/06/2021 15:34	WG1769883
Chlorobenzene	U		0.000116	0.00100	1	11/06/2021 15:34	WG1769883
Chlorodibromomethane	U		0.000140	0.00100	1	11/06/2021 15:34	WG1769883
Chloroethane	U		0.000192	0.00500	1	11/06/2021 15:34	WG1769883
Chloroform	0.000141	J	0.000111	0.00500	1	11/06/2021 15:34	WG1769883
Chloromethane	U		0.000960	0.00250	1	11/06/2021 15:34	WG1769883
2-Chlorotoluene	U		0.000106	0.00100	1	11/06/2021 15:34	WG1769883
4-Chlorotoluene	U		0.000114	0.00100	1	11/06/2021 15:34	WG1769883
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	11/06/2021 15:34	WG1769883
1,2-Dibromoethane	U		0.000126	0.00100	1	11/06/2021 15:34	WG1769883
Dibromomethane	U		0.000122	0.00100	1	11/06/2021 15:34	WG1769883
1,2-Dichlorobenzene	U		0.000107	0.00100	1	11/06/2021 15:34	WG1769883
1,3-Dichlorobenzene	U		0.000110	0.00100	1	11/06/2021 15:34	WG1769883
1,4-Dichlorobenzene	U		0.000120	0.00100	1	11/06/2021 15:34	WG1769883
Dichlorodifluoromethane	U		0.000374	0.00500	1	11/06/2021 15:34	WG1769883
1,1-Dichloroethane	U		0.000100	0.00100	1	11/06/2021 15:34	WG1769883
1,2-Dichloroethane	U		0.0000819	0.00100	1	11/06/2021 15:34	WG1769883
1,1-Dichloroethene	U		0.000188	0.00100	1	11/06/2021 15:34	WG1769883
cis-1,2-Dichloroethene	0.0148		0.000126	0.00100	1	11/06/2021 15:34	WG1769883
trans-1,2-Dichloroethene	0.00150		0.000149	0.00100	1	11/06/2021 15:34	WG1769883
1,2-Dichloropropane	U		0.000149	0.00100	1	11/06/2021 15:34	WG1769883
1,1-Dichloropropene	U		0.000142	0.00100	1	11/06/2021 15:34	WG1769883
1,3-Dichloropropane	U		0.000110	0.00100	1	11/06/2021 15:34	WG1769883
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	11/06/2021 15:34	WG1769883
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	11/06/2021 15:34	WG1769883
2,2-Dichloropropane	U		0.000161	0.00100	1	11/06/2021 15:34	WG1769883
Di-isopropyl ether	U		0.000105	0.00100	1	11/06/2021 15:34	WG1769883
Ethylbenzene	U		0.000137	0.00100	1	11/06/2021 15:34	WG1769883
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	11/06/2021 15:34	WG1769883
n-Hexane	U		0.000749	0.0100	1	11/06/2021 15:34	WG1769883
Isopropylbenzene	U		0.000105	0.00100	1	11/06/2021 15:34	WG1769883
p-Isopropyltoluene	U		0.000120	0.00100	1	11/06/2021 15:34	WG1769883
2-Butanone (MEK)	U		0.00119	0.0100	1	11/06/2021 15:34	WG1769883
Methylene Chloride	U		0.000430	0.00500	1	11/06/2021 15:34	WG1769883
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	11/06/2021 15:34	WG1769883
Methyl tert-butyl ether	U		0.000101	0.00100	1	11/06/2021 15:34	WG1769883
Naphthalene	U		0.00100	0.00500	1	11/06/2021 15:34	WG1769883
n-Propylbenzene	U		0.0000993	0.00100	1	11/06/2021 15:34	WG1769883
Styrene	U		0.000118	0.00100	1	11/06/2021 15:34	WG1769883
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	11/06/2021 15:34	WG1769883
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	11/06/2021 15:34	WG1769883
Tetrachloroethene	U		0.000300	0.00100	1	11/06/2021 15:34	WG1769883
Toluene	U		0.000278	0.00100	1	11/06/2021 15:34	WG1769883
1,2,3-Trichlorobenzene	U	J4	0.000230	0.00100	1	11/06/2021 15:34	WG1769883
1,2,4-Trichlorobenzene	U		0.000481	0.00100	1	11/06/2021 15:34	WG1769883

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	0.000393	J	0.000149	0.00100	1	11/06/2021 15:34	WG1769883
1,1,2-Trichloroethane	U		0.000158	0.00100	1	11/06/2021 15:34	WG1769883
Trichloroethene	0.0866		0.000190	0.00100	1	11/06/2021 15:34	WG1769883
Trichlorofluoromethane	U		0.000160	0.00500	1	11/06/2021 15:34	WG1769883
1,2,3-Trichloropropane	U		0.000237	0.00250	1	11/06/2021 15:34	WG1769883
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	11/06/2021 15:34	WG1769883
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	11/06/2021 15:34	WG1769883
Vinyl chloride	U		0.000234	0.00100	1	11/06/2021 15:34	WG1769883
Xylenes, Total	U		0.000174	0.00300	1	11/06/2021 15:34	WG1769883
(S) Toluene-d8	*106*			*80.0-120*		*11/06/2021 15:34*	WG1769883
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*11/06/2021 15:34*	WG1769883
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/06/2021 15:34*	WG1769883

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	11/06/2021 15:55	WG1769883
Acrolein	U		0.00254	0.0500	1	11/06/2021 15:55	WG1769883
Acrylonitrile	U		0.000671	0.0100	1	11/06/2021 15:55	WG1769883
Benzene	0.000197	J	0.0000941	0.00100	1	11/06/2021 15:55	WG1769883
Bromobenzene	U		0.000118	0.00100	1	11/06/2021 15:55	WG1769883
Bromodichloromethane	U		0.000136	0.00100	1	11/06/2021 15:55	WG1769883
Bromoform	U		0.000129	0.00100	1	11/06/2021 15:55	WG1769883
Bromomethane	U		0.000605	0.00500	1	11/06/2021 15:55	WG1769883
n-Butylbenzene	U		0.000157	0.00100	1	11/06/2021 15:55	WG1769883
sec-Butylbenzene	U		0.000125	0.00100	1	11/06/2021 15:55	WG1769883
tert-Butylbenzene	U		0.000127	0.00100	1	11/06/2021 15:55	WG1769883
Carbon tetrachloride	U		0.000128	0.00100	1	11/06/2021 15:55	WG1769883
Chlorobenzene	U		0.000116	0.00100	1	11/06/2021 15:55	WG1769883
Chlorodibromomethane	U		0.000140	0.00100	1	11/06/2021 15:55	WG1769883
Chloroethane	U		0.000192	0.00500	1	11/06/2021 15:55	WG1769883
Chloroform	0.000821	J	0.000111	0.00500	1	11/06/2021 15:55	WG1769883
Chloromethane	U		0.000960	0.00250	1	11/06/2021 15:55	WG1769883
2-Chlorotoluene	U		0.000106	0.00100	1	11/06/2021 15:55	WG1769883
4-Chlorotoluene	U		0.000114	0.00100	1	11/06/2021 15:55	WG1769883
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	11/06/2021 15:55	WG1769883
1,2-Dibromoethane	U		0.000126	0.00100	1	11/06/2021 15:55	WG1769883
Dibromomethane	U		0.000122	0.00100	1	11/06/2021 15:55	WG1769883
1,2-Dichlorobenzene	U		0.000107	0.00100	1	11/06/2021 15:55	WG1769883
1,3-Dichlorobenzene	U		0.000110	0.00100	1	11/06/2021 15:55	WG1769883
1,4-Dichlorobenzene	U		0.000120	0.00100	1	11/06/2021 15:55	WG1769883
Dichlorodifluoromethane	U		0.000374	0.00500	1	11/06/2021 15:55	WG1769883
1,1-Dichloroethane	U		0.000100	0.00100	1	11/06/2021 15:55	WG1769883
1,2-Dichloroethane	U		0.0000819	0.00100	1	11/06/2021 15:55	WG1769883
1,1-Dichloroethene	U		0.000188	0.00100	1	11/06/2021 15:55	WG1769883
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	11/06/2021 15:55	WG1769883
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	11/06/2021 15:55	WG1769883
1,2-Dichloropropane	U		0.000149	0.00100	1	11/06/2021 15:55	WG1769883
1,1-Dichloropropene	U		0.000142	0.00100	1	11/06/2021 15:55	WG1769883
1,3-Dichloropropane	U		0.000110	0.00100	1	11/06/2021 15:55	WG1769883
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	11/06/2021 15:55	WG1769883
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	11/06/2021 15:55	WG1769883
2,2-Dichloropropane	U		0.000161	0.00100	1	11/06/2021 15:55	WG1769883
Di-isopropyl ether	U		0.000105	0.00100	1	11/06/2021 15:55	WG1769883
Ethylbenzene	U		0.000137	0.00100	1	11/06/2021 15:55	WG1769883
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	11/06/2021 15:55	WG1769883
n-Hexane	U		0.000749	0.0100	1	11/06/2021 15:55	WG1769883
Isopropylbenzene	U		0.000105	0.00100	1	11/06/2021 15:55	WG1769883
p-Isopropyltoluene	U		0.000120	0.00100	1	11/06/2021 15:55	WG1769883
2-Butanone (MEK)	U		0.00119	0.0100	1	11/06/2021 15:55	WG1769883
Methylene Chloride	U		0.000430	0.00500	1	11/06/2021 15:55	WG1769883
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	11/06/2021 15:55	WG1769883
Methyl tert-butyl ether	U		0.000101	0.00100	1	11/06/2021 15:55	WG1769883
Naphthalene	U		0.00100	0.00500	1	11/06/2021 15:55	WG1769883
n-Propylbenzene	U		0.0000993	0.00100	1	11/06/2021 15:55	WG1769883
Styrene	U		0.000118	0.00100	1	11/06/2021 15:55	WG1769883
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	11/06/2021 15:55	WG1769883
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	11/06/2021 15:55	WG1769883
Tetrachloroethene	U		0.000300	0.00100	1	11/06/2021 15:55	WG1769883
Toluene	U		0.000278	0.00100	1	11/06/2021 15:55	WG1769883
1,2,3-Trichlorobenzene	U	J4	0.000230	0.00100	1	11/06/2021 15:55	WG1769883
1,2,4-Trichlorobenzene	U		0.000481	0.00100	1	11/06/2021 15:55	WG1769883

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.000149	0.00100	1	11/06/2021 15:55	WG1769883
1,1,2-Trichloroethane	U		0.000158	0.00100	1	11/06/2021 15:55	WG1769883
Trichloroethene	U		0.000190	0.00100	1	11/06/2021 15:55	WG1769883
Trichlorofluoromethane	U		0.000160	0.00500	1	11/06/2021 15:55	WG1769883
1,2,3-Trichloropropane	U		0.000237	0.00250	1	11/06/2021 15:55	WG1769883
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	11/06/2021 15:55	WG1769883
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	11/06/2021 15:55	WG1769883
Vinyl chloride	U		0.000234	0.00100	1	11/06/2021 15:55	WG1769883
Xylenes, Total	U		0.000174	0.00300	1	11/06/2021 15:55	WG1769883
(S) Toluene-d8	*110*			*80.0-120*		*11/06/2021 15:55*	WG1769883
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*11/06/2021 15:55*	WG1769883
(S) 1,2-Dichloroethane-d4	*99.9*			*70.0-130*		*11/06/2021 15:55*	WG1769883

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	11/02/2021 20:29	WG1767486
Acrolein	U		0.00254	0.0500	1	11/02/2021 20:29	WG1767486
Acrylonitrile	U		0.000671	0.0100	1	11/02/2021 20:29	WG1767486
Benzene	U		0.0000941	0.00100	1	11/02/2021 20:29	WG1767486
Bromobenzene	U		0.000118	0.00100	1	11/02/2021 20:29	WG1767486
Bromodichloromethane	U		0.000136	0.00100	1	11/02/2021 20:29	WG1767486
Bromoform	U		0.000129	0.00100	1	11/02/2021 20:29	WG1767486
Bromomethane	U		0.000605	0.00500	1	11/02/2021 20:29	WG1767486
n-Butylbenzene	U		0.000157	0.00100	1	11/02/2021 20:29	WG1767486
sec-Butylbenzene	U		0.000125	0.00100	1	11/02/2021 20:29	WG1767486
tert-Butylbenzene	U		0.000127	0.00100	1	11/02/2021 20:29	WG1767486
Carbon tetrachloride	U		0.000128	0.00100	1	11/02/2021 20:29	WG1767486
Chlorobenzene	U		0.000116	0.00100	1	11/02/2021 20:29	WG1767486
Chlorodibromomethane	U		0.000140	0.00100	1	11/02/2021 20:29	WG1767486
Chloroethane	U		0.000192	0.00500	1	11/02/2021 20:29	WG1767486
Chloroform	U		0.000111	0.00500	1	11/02/2021 20:29	WG1767486
Chloromethane	U		0.000960	0.00250	1	11/02/2021 20:29	WG1767486
2-Chlorotoluene	U		0.000106	0.00100	1	11/02/2021 20:29	WG1767486
4-Chlorotoluene	U		0.000114	0.00100	1	11/02/2021 20:29	WG1767486
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	11/02/2021 20:29	WG1767486
1,2-Dibromoethane	U		0.000126	0.00100	1	11/02/2021 20:29	WG1767486
Dibromomethane	U		0.000122	0.00100	1	11/02/2021 20:29	WG1767486
1,2-Dichlorobenzene	U		0.000107	0.00100	1	11/02/2021 20:29	WG1767486
1,3-Dichlorobenzene	U		0.000110	0.00100	1	11/02/2021 20:29	WG1767486
1,4-Dichlorobenzene	U		0.000120	0.00100	1	11/02/2021 20:29	WG1767486
Dichlorodifluoromethane	U		0.000374	0.00500	1	11/02/2021 20:29	WG1767486
1,1-Dichloroethane	U		0.000100	0.00100	1	11/02/2021 20:29	WG1767486
1,2-Dichloroethane	U		0.0000819	0.00100	1	11/02/2021 20:29	WG1767486
1,1-Dichloroethene	U		0.000188	0.00100	1	11/02/2021 20:29	WG1767486
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	11/02/2021 20:29	WG1767486
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	11/02/2021 20:29	WG1767486
1,2-Dichloropropane	U		0.000149	0.00100	1	11/02/2021 20:29	WG1767486
1,1-Dichloropropene	U		0.000142	0.00100	1	11/02/2021 20:29	WG1767486
1,3-Dichloropropane	U		0.000110	0.00100	1	11/02/2021 20:29	WG1767486
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	11/02/2021 20:29	WG1767486
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	11/02/2021 20:29	WG1767486
2,2-Dichloropropane	U	J4	0.000161	0.00100	1	11/02/2021 20:29	WG1767486
Di-isopropyl ether	U		0.000105	0.00100	1	11/02/2021 20:29	WG1767486
Ethylbenzene	U		0.000137	0.00100	1	11/02/2021 20:29	WG1767486
Hexachloro-1,3-butadiene	U	J4	0.000337	0.00100	1	11/02/2021 20:29	WG1767486
n-Hexane	U		0.000749	0.0100	1	11/02/2021 20:29	WG1767486
Isopropylbenzene	U		0.000105	0.00100	1	11/02/2021 20:29	WG1767486
p-Isopropyltoluene	U		0.000120	0.00100	1	11/02/2021 20:29	WG1767486
2-Butanone (MEK)	U		0.00119	0.0100	1	11/02/2021 20:29	WG1767486
Methylene Chloride	U		0.000430	0.00500	1	11/02/2021 20:29	WG1767486
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	11/02/2021 20:29	WG1767486
Methyl tert-butyl ether	U		0.000101	0.00100	1	11/02/2021 20:29	WG1767486
Naphthalene	U		0.00100	0.00500	1	11/02/2021 20:29	WG1767486
n-Propylbenzene	U		0.0000993	0.00100	1	11/02/2021 20:29	WG1767486
Styrene	U		0.000118	0.00100	1	11/02/2021 20:29	WG1767486
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	11/02/2021 20:29	WG1767486
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	11/02/2021 20:29	WG1767486
Tetrachloroethene	U		0.000300	0.00100	1	11/02/2021 20:29	WG1767486
Toluene	U		0.000278	0.00100	1	11/02/2021 20:29	WG1767486
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	11/02/2021 20:29	WG1767486
1,2,4-Trichlorobenzene	U		0.000481	0.00100	1	11/02/2021 20:29	WG1767486

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.000149	0.00100	1	11/02/2021 20:29	WG1767486
1,1,2-Trichloroethane	U		0.000158	0.00100	1	11/02/2021 20:29	WG1767486
Trichloroethene	U		0.000190	0.00100	1	11/02/2021 20:29	WG1767486
Trichlorofluoromethane	U		0.000160	0.00500	1	11/02/2021 20:29	WG1767486
1,2,3-Trichloropropane	U		0.000237	0.00250	1	11/02/2021 20:29	WG1767486
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	11/02/2021 20:29	WG1767486
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	11/02/2021 20:29	WG1767486
Vinyl chloride	U		0.000234	0.00100	1	11/02/2021 20:29	WG1767486
Xylenes, Total	U		0.000174	0.00300	1	11/02/2021 20:29	WG1767486
(S) Toluene-d8	*103*			*80.0-120*		*11/02/2021 20:29*	WG1767486
(S) 4-Bromofluorobenzene	*89.8*			*77.0-126*		*11/02/2021 20:29*	WG1767486
(S) 1,2-Dichloroethane-d4	*131*	J1		*70.0-130*		*11/02/2021 20:29*	WG1767486

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
PCB 1016	U		0.000270	0.000500	1	11/05/2021 20:51	WG1770725
PCB 1221	U		0.000270	0.000500	1	11/05/2021 20:51	WG1770725
PCB 1232	U		0.000270	0.000500	1	11/05/2021 20:51	WG1770725
PCB 1242	U		0.000270	0.000500	1	11/05/2021 20:51	WG1770725
PCB 1248	U		0.000173	0.000500	1	11/05/2021 20:51	WG1770725
PCB 1254	U		0.000173	0.000500	1	11/05/2021 20:51	WG1770725
PCB 1260	U	J3	0.000173	0.000500	1	11/05/2021 20:51	WG1770725
(S) Decachlorobiphenyl	*47.8*			*10.0-128*		*11/05/2021 20:51*	WG1770725
(S) Tetrachloro-m-xylene	*63.6*			*10.0-127*		*11/05/2021 20:51*	WG1770725

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0000190	0.0000500	1	11/02/2021 23:13	WG1766300
Acenaphthene	U		0.0000190	0.0000500	1	11/02/2021 23:13	WG1766300
Acenaphthylene	U		0.0000171	0.0000500	1	11/02/2021 23:13	WG1766300
Benzo(a)anthracene	U		0.0000203	0.0000500	1	11/02/2021 23:13	WG1766300
Benzo(a)pyrene	U		0.0000184	0.0000500	1	11/02/2021 23:13	WG1766300
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	11/02/2021 23:13	WG1766300
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	1	11/02/2021 23:13	WG1766300
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	11/02/2021 23:13	WG1766300
Chrysene	U		0.0000179	0.0000500	1	11/02/2021 23:13	WG1766300
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	11/02/2021 23:13	WG1766300
Fluoranthene	U		0.0000270	0.000100	1	11/02/2021 23:13	WG1766300
Fluorene	U		0.0000169	0.0000500	1	11/02/2021 23:13	WG1766300
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	11/02/2021 23:13	WG1766300
Naphthalene	U		0.0000917	0.000250	1	11/02/2021 23:13	WG1766300
Phenanthrene	U		0.0000180	0.0000500	1	11/02/2021 23:13	WG1766300
Pyrene	U		0.0000169	0.0000500	1	11/02/2021 23:13	WG1766300
1-Methylnaphthalene	U		0.0000687	0.000250	1	11/02/2021 23:13	WG1766300
2-Methylnaphthalene	U		0.0000674	0.000250	1	11/02/2021 23:13	WG1766300
2-Chloronaphthalene	U		0.0000682	0.000250	1	11/02/2021 23:13	WG1766300
(S) Nitrobenzene-d5	*116*			*31.0-160*		*11/02/2021 23:13*	WG1766300
(S) 2-Fluorobiphenyl	*115*			*48.0-148*		*11/02/2021 23:13*	WG1766300
(S) p-Terphenyl-d14	*137*			*37.0-146*		*11/02/2021 23:13*	WG1766300

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0113	0.0500	1	11/06/2021 16:15	WG1769883
Acrolein	U		0.00254	0.0500	1	11/06/2021 16:15	WG1769883
Acrylonitrile	U		0.000671	0.0100	1	11/06/2021 16:15	WG1769883
Benzene	U		0.0000941	0.00100	1	11/06/2021 16:15	WG1769883
Bromobenzene	U		0.000118	0.00100	1	11/06/2021 16:15	WG1769883
Bromodichloromethane	U		0.000136	0.00100	1	11/06/2021 16:15	WG1769883
Bromoform	U		0.000129	0.00100	1	11/06/2021 16:15	WG1769883
Bromomethane	U		0.000605	0.00500	1	11/06/2021 16:15	WG1769883
n-Butylbenzene	U		0.000157	0.00100	1	11/06/2021 16:15	WG1769883
sec-Butylbenzene	U		0.000125	0.00100	1	11/06/2021 16:15	WG1769883
tert-Butylbenzene	U		0.000127	0.00100	1	11/06/2021 16:15	WG1769883
Carbon tetrachloride	U		0.000128	0.00100	1	11/06/2021 16:15	WG1769883
Chlorobenzene	U		0.000116	0.00100	1	11/06/2021 16:15	WG1769883
Chlorodibromomethane	U		0.000140	0.00100	1	11/06/2021 16:15	WG1769883
Chloroethane	U		0.000192	0.00500	1	11/06/2021 16:15	WG1769883
Chloroform	U		0.000111	0.00500	1	11/06/2021 16:15	WG1769883
Chloromethane	U		0.000960	0.00250	1	11/06/2021 16:15	WG1769883
2-Chlorotoluene	U		0.000106	0.00100	1	11/06/2021 16:15	WG1769883
4-Chlorotoluene	U		0.000114	0.00100	1	11/06/2021 16:15	WG1769883
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	11/06/2021 16:15	WG1769883
1,2-Dibromoethane	U		0.000126	0.00100	1	11/06/2021 16:15	WG1769883
Dibromomethane	U		0.000122	0.00100	1	11/06/2021 16:15	WG1769883
1,2-Dichlorobenzene	U		0.000107	0.00100	1	11/06/2021 16:15	WG1769883
1,3-Dichlorobenzene	U		0.000110	0.00100	1	11/06/2021 16:15	WG1769883
1,4-Dichlorobenzene	U		0.000120	0.00100	1	11/06/2021 16:15	WG1769883
Dichlorodifluoromethane	U		0.000374	0.00500	1	11/06/2021 16:15	WG1769883
1,1-Dichloroethane	U		0.000100	0.00100	1	11/06/2021 16:15	WG1769883
1,2-Dichloroethane	U		0.0000819	0.00100	1	11/06/2021 16:15	WG1769883
1,1-Dichloroethene	U		0.000188	0.00100	1	11/06/2021 16:15	WG1769883
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	11/06/2021 16:15	WG1769883
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	11/06/2021 16:15	WG1769883
1,2-Dichloropropane	U		0.000149	0.00100	1	11/06/2021 16:15	WG1769883
1,1-Dichloropropene	U		0.000142	0.00100	1	11/06/2021 16:15	WG1769883
1,3-Dichloropropane	U		0.000110	0.00100	1	11/06/2021 16:15	WG1769883
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	11/06/2021 16:15	WG1769883
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	11/06/2021 16:15	WG1769883
2,2-Dichloropropane	U		0.000161	0.00100	1	11/06/2021 16:15	WG1769883
Di-isopropyl ether	U		0.000105	0.00100	1	11/06/2021 16:15	WG1769883
Ethylbenzene	U		0.000137	0.00100	1	11/06/2021 16:15	WG1769883
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	11/06/2021 16:15	WG1769883
n-Hexane	U		0.000749	0.0100	1	11/06/2021 16:15	WG1769883
Isopropylbenzene	U		0.000105	0.00100	1	11/06/2021 16:15	WG1769883
p-Isopropyltoluene	U		0.000120	0.00100	1	11/06/2021 16:15	WG1769883
2-Butanone (MEK)	U		0.00119	0.0100	1	11/06/2021 16:15	WG1769883
Methylene Chloride	U		0.000430	0.00500	1	11/06/2021 16:15	WG1769883
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	11/06/2021 16:15	WG1769883
Methyl tert-butyl ether	U		0.000101	0.00100	1	11/06/2021 16:15	WG1769883
Naphthalene	U		0.00100	0.00500	1	11/06/2021 16:15	WG1769883
n-Propylbenzene	U		0.0000993	0.00100	1	11/06/2021 16:15	WG1769883
Styrene	U		0.000118	0.00100	1	11/06/2021 16:15	WG1769883
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	11/06/2021 16:15	WG1769883
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	11/06/2021 16:15	WG1769883
Tetrachloroethene	U		0.000300	0.00100	1	11/06/2021 16:15	WG1769883
Toluene	U		0.000278	0.00100	1	11/06/2021 16:15	WG1769883
1,2,3-Trichlorobenzene	U	J4	0.000230	0.00100	1	11/06/2021 16:15	WG1769883
1,2,4-Trichlorobenzene	U		0.000481	0.00100	1	11/06/2021 16:15	WG1769883

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,1,1-Trichloroethane	U		0.000149	0.00100	1	11/06/2021 16:15	WG1769883
1,1,2-Trichloroethane	U		0.000158	0.00100	1	11/06/2021 16:15	WG1769883
Trichloroethene	U		0.000190	0.00100	1	11/06/2021 16:15	WG1769883
Trichlorofluoromethane	U		0.000160	0.00500	1	11/06/2021 16:15	WG1769883
1,2,3-Trichloropropane	U		0.000237	0.00250	1	11/06/2021 16:15	WG1769883
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	11/06/2021 16:15	WG1769883
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	11/06/2021 16:15	WG1769883
Vinyl chloride	U		0.000234	0.00100	1	11/06/2021 16:15	WG1769883
Xylenes, Total	U		0.000174	0.00300	1	11/06/2021 16:15	WG1769883
(S) Toluene-d8	*111*			*80.0-120*		*11/06/2021 16:15*	WG1769883
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*11/06/2021 16:15*	WG1769883
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/06/2021 16:15*	WG1769883

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	11/02/2021 15:44	WG1767486
Acrolein	U		0.00254	0.0500	1	11/02/2021 15:44	WG1767486
Acrylonitrile	U		0.000671	0.0100	1	11/02/2021 15:44	WG1767486
Benzene	U		0.0000941	0.00100	1	11/02/2021 15:44	WG1767486
Bromobenzene	U		0.000118	0.00100	1	11/02/2021 15:44	WG1767486
Bromodichloromethane	U		0.000136	0.00100	1	11/02/2021 15:44	WG1767486
Bromoform	U		0.000129	0.00100	1	11/02/2021 15:44	WG1767486
Bromomethane	U		0.000605	0.00500	1	11/02/2021 15:44	WG1767486
n-Butylbenzene	U		0.000157	0.00100	1	11/02/2021 15:44	WG1767486
sec-Butylbenzene	U		0.000125	0.00100	1	11/02/2021 15:44	WG1767486
tert-Butylbenzene	U		0.000127	0.00100	1	11/02/2021 15:44	WG1767486
Carbon tetrachloride	U		0.000128	0.00100	1	11/02/2021 15:44	WG1767486
Chlorobenzene	U		0.000116	0.00100	1	11/02/2021 15:44	WG1767486
Chlorodibromomethane	U		0.000140	0.00100	1	11/02/2021 15:44	WG1767486
Chloroethane	U		0.000192	0.00500	1	11/02/2021 15:44	WG1767486
Chloroform	U		0.000111	0.00500	1	11/02/2021 15:44	WG1767486
Chloromethane	U		0.000960	0.00250	1	11/02/2021 15:44	WG1767486
2-Chlorotoluene	U		0.000106	0.00100	1	11/02/2021 15:44	WG1767486
4-Chlorotoluene	U		0.000114	0.00100	1	11/02/2021 15:44	WG1767486
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	11/02/2021 15:44	WG1767486
1,2-Dibromoethane	U		0.000126	0.00100	1	11/02/2021 15:44	WG1767486
Dibromomethane	U		0.000122	0.00100	1	11/02/2021 15:44	WG1767486
1,2-Dichlorobenzene	U		0.000107	0.00100	1	11/02/2021 15:44	WG1767486
1,3-Dichlorobenzene	U		0.000110	0.00100	1	11/02/2021 15:44	WG1767486
1,4-Dichlorobenzene	U		0.000120	0.00100	1	11/02/2021 15:44	WG1767486
Dichlorodifluoromethane	U		0.000374	0.00500	1	11/02/2021 15:44	WG1767486
1,1-Dichloroethane	U		0.000100	0.00100	1	11/02/2021 15:44	WG1767486
1,2-Dichloroethane	U		0.0000819	0.00100	1	11/02/2021 15:44	WG1767486
1,1-Dichloroethene	U		0.000188	0.00100	1	11/02/2021 15:44	WG1767486
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	11/02/2021 15:44	WG1767486
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	11/02/2021 15:44	WG1767486
1,2-Dichloropropane	U		0.000149	0.00100	1	11/02/2021 15:44	WG1767486
1,1-Dichloropropene	U		0.000142	0.00100	1	11/02/2021 15:44	WG1767486
1,3-Dichloropropane	U		0.000110	0.00100	1	11/02/2021 15:44	WG1767486
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	11/02/2021 15:44	WG1767486
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	11/02/2021 15:44	WG1767486
2,2-Dichloropropane	U	J4	0.000161	0.00100	1	11/02/2021 15:44	WG1767486
Di-isopropyl ether	U		0.000105	0.00100	1	11/02/2021 15:44	WG1767486
Ethylbenzene	U		0.000137	0.00100	1	11/02/2021 15:44	WG1767486
Hexachloro-1,3-butadiene	U	J4	0.000337	0.00100	1	11/02/2021 15:44	WG1767486
n-Hexane	U		0.000749	0.0100	1	11/02/2021 15:44	WG1767486
Isopropylbenzene	U		0.000105	0.00100	1	11/02/2021 15:44	WG1767486
p-Isopropyltoluene	U		0.000120	0.00100	1	11/02/2021 15:44	WG1767486
2-Butanone (MEK)	U		0.00119	0.0100	1	11/02/2021 15:44	WG1767486
Methylene Chloride	U		0.000430	0.00500	1	11/02/2021 15:44	WG1767486
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	11/02/2021 15:44	WG1767486
Methyl tert-butyl ether	U		0.000101	0.00100	1	11/02/2021 15:44	WG1767486
Naphthalene	U		0.00100	0.00500	1	11/02/2021 15:44	WG1767486
n-Propylbenzene	U		0.0000993	0.00100	1	11/02/2021 15:44	WG1767486
Styrene	U		0.000118	0.00100	1	11/02/2021 15:44	WG1767486
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	11/02/2021 15:44	WG1767486
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	11/02/2021 15:44	WG1767486
Tetrachloroethene	U		0.000300	0.00100	1	11/02/2021 15:44	WG1767486
Toluene	U		0.000278	0.00100	1	11/02/2021 15:44	WG1767486
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	11/02/2021 15:44	WG1767486
1,2,4-Trichlorobenzene	U		0.000481	0.00100	1	11/02/2021 15:44	WG1767486

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,1,1-Trichloroethane	U		0.000149	0.00100	1	11/02/2021 15:44	WG1767486
1,1,2-Trichloroethane	U		0.000158	0.00100	1	11/02/2021 15:44	WG1767486
Trichloroethene	U		0.000190	0.00100	1	11/02/2021 15:44	WG1767486
Trichlorofluoromethane	U		0.000160	0.00500	1	11/02/2021 15:44	WG1767486
1,2,3-Trichloropropane	U		0.000237	0.00250	1	11/02/2021 15:44	WG1767486
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	11/02/2021 15:44	WG1767486
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	11/02/2021 15:44	WG1767486
Vinyl chloride	U		0.000234	0.00100	1	11/02/2021 15:44	WG1767486
Xylenes, Total	U		0.000174	0.00300	1	11/02/2021 15:44	WG1767486
(S) Toluene-d8	*102*			*80.0-120*		*11/02/2021 15:44*	WG1767486
(S) 4-Bromofluorobenzene	*88.5*			*77.0-126*		*11/02/2021 15:44*	WG1767486
(S) 1,2-Dichloroethane-d4	*123*			*70.0-130*		*11/02/2021 15:44*	WG1767486

Method Blank (MB)

(MB) R3724771-1 11/02/21 12:12

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

L1424325-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1424325-05 11/02/21 12:12 • (DUP) R3724771-3 11/02/21 12:12

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	91.8	90.2	1	1.71		10

Laboratory Control Sample (LCS)

(LCS) R3724771-2 11/02/21 12:12

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

Method Blank (MB)

(MB) R3724760-1 11/02/21 12:00

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

L1424325-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1424325-16 11/02/21 12:00 • (DUP) R3724760-3 11/02/21 12:00

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	88.6	87.4	1	1.28		10

Laboratory Control Sample (LCS)

(LCS) R3724760-2 11/02/21 12:00

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

Method Blank (MB)

(MB) R3726566-2 10/30/21 22:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C6 - C12	U		0.0339	0.100
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3726566-1 10/30/21 21:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C6 - C12	5.50	6.03	110	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			*115*	*77.0-120*	

L1424325-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1424325-01 10/30/21 23:42 • (MS) R3726566-3 10/31/21 05:55 • (MSD) R3726566-4 10/31/21 06:17

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHG C6 - C12	146	U	125	129	86.1	88.5	25	10.0-149			2.71	27
(S) a,a,a-Trifluorotoluene(FID)					*109*	*110*		*77.0-120*				

Method Blank (MB)

(MB) R3724919-3 10/31/21 14:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrolein	U		0.00254	0.0500
Acrylonitrile	U		0.000671	0.0100
Bromobenzene	U		0.000118	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
2-Chlorotoluene	U		0.000106	0.00100
4-Chlorotoluene	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500
1,2-Dibromoethane	U		0.000126	0.00100
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,1-Dichloropropene	U		0.000142	0.00100
1,3-Dichloropropane	U		0.000110	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
2,2-Dichloropropane	U		0.000161	0.00100
Di-isopropyl ether	U		0.000105	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	U		0.000337	0.00100
n-Hexane	U		0.000749	0.0100

Method Blank (MB)

(MB) R3724919-3 10/31/21 14:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000481	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*101*			*80.0-120*
(S) 4-Bromofluorobenzene	*88.4*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*126*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3724919-1 10/31/21 13:00 • (LCSD) R3724919-2 10/31/21 13:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0270	0.0276	108	110	19.0-160			2.20	27
Acrolein	0.0250	0.0168	0.0220	67.2	88.0	10.0-160		J3	26.8	26
Acrylonitrile	0.0250	0.0196	0.0207	78.4	82.8	55.0-149			5.46	20
Bromobenzene	0.00500	0.00462	0.00454	92.4	90.8	73.0-121			1.75	20
Bromodichloromethane	0.00500	0.00540	0.00537	108	107	75.0-120			0.557	20
Bromoform	0.00500	0.00454	0.00435	90.8	87.0	68.0-132			4.27	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3724919-1 10/31/21 13:00 • (LCSD) R3724919-2 10/31/21 13:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromomethane	0.00500	0.00615	0.00587	123	117	10.0-160			4.66	25
n-Butylbenzene	0.00500	0.00468	0.00475	93.6	95.0	73.0-125			1.48	20
sec-Butylbenzene	0.00500	0.00459	0.00477	91.8	95.4	75.0-125			3.85	20
tert-Butylbenzene	0.00500	0.00431	0.00438	86.2	87.6	76.0-124			1.61	20
Carbon tetrachloride	0.00500	0.00570	0.00532	114	106	68.0-126			6.90	20
Chlorobenzene	0.00500	0.00478	0.00471	95.6	94.2	80.0-121			1.48	20
Chlorodibromomethane	0.00500	0.00475	0.00467	95.0	93.4	77.0-125			1.70	20
Chloroethane	0.00500	0.00561	0.00483	112	96.6	47.0-150			14.9	20
Chloroform	0.00500	0.00557	0.00563	111	113	73.0-120			1.07	20
Chloromethane	0.00500	0.00501	0.00504	100	101	41.0-142			0.597	20
2-Chlorotoluene	0.00500	0.00456	0.00450	91.2	90.0	76.0-123			1.32	20
4-Chlorotoluene	0.00500	0.00445	0.00454	89.0	90.8	75.0-122			2.00	20
1,2-Dibromo-3-Chloropropane	0.00500	0.00357	0.00385	71.4	77.0	58.0-134			7.55	20
1,2-Dibromoethane	0.00500	0.00489	0.00476	97.8	95.2	80.0-122			2.69	20
Dibromomethane	0.00500	0.00521	0.00518	104	104	80.0-120			0.577	20
1,2-Dichlorobenzene	0.00500	0.00502	0.00514	100	103	79.0-121			2.36	20
1,3-Dichlorobenzene	0.00500	0.00557	0.00561	111	112	79.0-120			0.716	20
1,4-Dichlorobenzene	0.00500	0.00539	0.00549	108	110	79.0-120			1.84	20
Dichlorodifluoromethane	0.00500	0.00570	0.00563	114	113	51.0-149			1.24	20
1,1-Dichloroethane	0.00500	0.00542	0.00538	108	108	70.0-126			0.741	20
1,2-Dichloroethane	0.00500	0.00620	0.00613	124	123	70.0-128			1.14	20
1,1-Dichloroethene	0.00500	0.00485	0.00488	97.0	97.6	71.0-124			0.617	20
cis-1,2-Dichloroethene	0.00500	0.00512	0.00486	102	97.2	73.0-120			5.21	20
trans-1,2-Dichloroethene	0.00500	0.00500	0.00492	100	98.4	73.0-120			1.61	20
1,2-Dichloropropane	0.00500	0.00510	0.00533	102	107	77.0-125			4.41	20
1,1-Dichloropropene	0.00500	0.00517	0.00517	103	103	74.0-126			0.000	20
1,3-Dichloropropane	0.00500	0.00524	0.00516	105	103	80.0-120			1.54	20
cis-1,3-Dichloropropene	0.00500	0.00507	0.00501	101	100	80.0-123			1.19	20
trans-1,3-Dichloropropene	0.00500	0.00485	0.00469	97.0	93.8	78.0-124			3.35	20
2,2-Dichloropropane	0.00500	0.00511	0.00467	102	93.4	58.0-130			9.00	20
Di-isopropyl ether	0.00500	0.00541	0.00534	108	107	58.0-138			1.30	20
Ethylbenzene	0.00500	0.00475	0.00475	95.0	95.0	79.0-123			0.000	20
Hexachloro-1,3-butadiene	0.00500	0.00538	0.00561	108	112	54.0-138			4.19	20
n-Hexane	0.00500	0.00441	0.00434	88.2	86.8	57.0-133			1.60	20
Isopropylbenzene	0.00500	0.00470	0.00466	94.0	93.2	76.0-127			0.855	20
p-Isopropyltoluene	0.00500	0.00476	0.00470	95.2	94.0	76.0-125			1.27	20
2-Butanone (MEK)	0.0250	0.0226	0.0234	90.4	93.6	44.0-160			3.48	20
Methylene Chloride	0.00500	0.00520	0.00515	104	103	67.0-120			0.966	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0225	0.0224	90.0	89.6	68.0-142			0.445	20
Methyl tert-butyl ether	0.00500	0.00452	0.00450	90.4	90.0	68.0-125			0.443	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3724919-1 10/31/21 13:00 • (LCSD) R3724919-2 10/31/21 13:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.00500	0.00403	0.00432	80.6	86.4	54.0-135			6.95	20
n-Propylbenzene	0.00500	0.00442	0.00435	88.4	87.0	77.0-124			1.60	20
Styrene	0.00500	0.00337	0.00321	67.4	64.2	73.0-130	J4	J4	4.86	20
1,1,1,2-Tetrachloroethane	0.00500	0.00542	0.00541	108	108	75.0-125			0.185	20
1,1,2,2-Tetrachloroethane	0.00500	0.00409	0.00416	81.8	83.2	65.0-130			1.70	20
Tetrachloroethene	0.00500	0.00520	0.00522	104	104	72.0-132			0.384	20
Toluene	0.00500	0.00469	0.00460	93.8	92.0	79.0-120			1.94	20
1,2,3-Trichlorobenzene	0.00500	0.00500	0.00541	100	108	50.0-138			7.88	20
1,2,4-Trichlorobenzene	0.00500	0.00526	0.00540	105	108	57.0-137			2.63	20
1,1,1-Trichloroethane	0.00500	0.00535	0.00535	107	107	73.0-124			0.000	20
1,1,2-Trichloroethane	0.00500	0.00475	0.00498	95.0	99.6	80.0-120			4.73	20
Trichloroethene	0.00500	0.00529	0.00530	106	106	78.0-124			0.189	20
Trichlorofluoromethane	0.00500	0.00503	0.00498	101	99.6	59.0-147			0.999	20
1,2,3-Trichloropropane	0.00500	0.00441	0.00437	88.2	87.4	73.0-130			0.911	20
1,2,4-Trimethylbenzene	0.00500	0.00454	0.00449	90.8	89.8	76.0-121			1.11	20
1,3,5-Trimethylbenzene	0.00500	0.00442	0.00453	88.4	90.6	76.0-122			2.46	20
Vinyl chloride	0.00500	0.00579	0.00552	116	110	67.0-131			4.77	20
Xylenes, Total	0.0150	0.0139	0.0134	92.7	89.3	79.0-123			3.66	20
(S) Toluene-d8				*100*	*97.4*	*80.0-120*				
(S) 4-Bromofluorobenzene				*93.3*	*93.5*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*123*	*123*	*70.0-130*				

Method Blank (MB)

(MB) R3725431-4 11/02/21 11:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrolein	U		0.00254	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromobenzene	U		0.000118	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	0.000321	J	0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
2-Chlorotoluene	U		0.000106	0.00100
4-Chlorotoluene	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500
1,2-Dibromoethane	U		0.000126	0.00100
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,1-Dichloropropene	U		0.000142	0.00100
1,3-Dichloropropane	U		0.000110	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
2,2-Dichloropropane	U		0.000161	0.00100
Di-isopropyl ether	U		0.000105	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	0.000369	J	0.000337	0.00100

Method Blank (MB)

(MB) R3725431-4 11/02/21 11:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
n-Hexane	U		0.000749	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000481	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	0.000145	J	0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*94.2*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3725431-1 11/02/21 10:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0240	96.0	19.0-160	
Acrolein	0.0250	0.0353	141	10.0-160	
Acrylonitrile	0.0250	0.0251	100	55.0-149	
Benzene	0.00500	0.00505	101	70.0-123	
Bromobenzene	0.00500	0.00501	100	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3725431-1 11/02/21 10:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromodichloromethane	0.00500	0.00588	118	75.0-120	
Bromoform	0.00500	0.00562	112	68.0-132	
Bromomethane	0.00500	0.00594	119	10.0-160	
n-Butylbenzene	0.00500	0.00445	89.0	73.0-125	
sec-Butylbenzene	0.00500	0.00498	99.6	75.0-125	
tert-Butylbenzene	0.00500	0.00469	93.8	76.0-124	
Carbon tetrachloride	0.00500	0.00585	117	68.0-126	
Chlorobenzene	0.00500	0.00423	84.6	80.0-121	
Chlorodibromomethane	0.00500	0.00520	104	77.0-125	
Chloroethane	0.00500	0.00693	139	47.0-150	
Chloroform	0.00500	0.00542	108	73.0-120	
Chloromethane	0.00500	0.00565	113	41.0-142	
2-Chlorotoluene	0.00500	0.00499	99.8	76.0-123	
4-Chlorotoluene	0.00500	0.00505	101	75.0-122	
1,2-Dibromo-3-Chloropropane	0.00500	0.00463	92.6	58.0-134	
1,2-Dibromoethane	0.00500	0.00490	98.0	80.0-122	
Dibromomethane	0.00500	0.00527	105	80.0-120	
1,2-Dichlorobenzene	0.00500	0.00482	96.4	79.0-121	
1,3-Dichlorobenzene	0.00500	0.00508	102	79.0-120	
1,4-Dichlorobenzene	0.00500	0.00528	106	79.0-120	
Dichlorodifluoromethane	0.00500	0.00533	107	51.0-149	
1,1-Dichloroethane	0.00500	0.00537	107	70.0-126	
1,2-Dichloroethane	0.00500	0.00566	113	70.0-128	
1,1-Dichloroethene	0.00500	0.00479	95.8	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00443	88.6	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00481	96.2	73.0-120	
1,2-Dichloropropane	0.00500	0.00564	113	77.0-125	
1,1-Dichloropropene	0.00500	0.00533	107	74.0-126	
1,3-Dichloropropane	0.00500	0.00532	106	80.0-120	
cis-1,3-Dichloropropene	0.00500	0.00602	120	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00592	118	78.0-124	
2,2-Dichloropropane	0.00500	0.00711	142	58.0-130	J4
Di-isopropyl ether	0.00500	0.00481	96.2	58.0-138	
Ethylbenzene	0.00500	0.00467	93.4	79.0-123	
Hexachloro-1,3-butadiene	0.00500	0.00701	140	54.0-138	J4
n-Hexane	0.00500	0.00564	113	57.0-133	
Isopropylbenzene	0.00500	0.00449	89.8	76.0-127	
p-Isopropyltoluene	0.00500	0.00469	93.8	76.0-125	
2-Butanone (MEK)	0.0250	0.0236	94.4	44.0-160	
Methylene Chloride	0.00500	0.00506	101	67.0-120	

Laboratory Control Sample (LCS)

(LCS) R3725431-1 11/02/21 10:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Methyl-2-pentanone (MIBK)	0.0250	0.0223	89.2	68.0-142	
Methyl tert-butyl ether	0.00500	0.00527	105	68.0-125	
Naphthalene	0.00500	0.00413	82.6	54.0-135	
n-Propylbenzene	0.00500	0.00484	96.8	77.0-124	
Styrene	0.00500	0.00461	92.2	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00492	98.4	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00518	104	65.0-130	
Tetrachloroethene	0.00500	0.00523	105	72.0-132	
Toluene	0.00500	0.00446	89.2	79.0-120	
1,2,3-Trichlorobenzene	0.00500	0.00570	114	50.0-138	
1,2,4-Trichlorobenzene	0.00500	0.00530	106	57.0-137	
1,1,1-Trichloroethane	0.00500	0.00593	119	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00492	98.4	80.0-120	
Trichloroethene	0.00500	0.00500	100	78.0-124	
Trichlorofluoromethane	0.00500	0.00608	122	59.0-147	
1,2,3-Trichloropropane	0.00500	0.00574	115	73.0-130	
1,2,4-Trimethylbenzene	0.00500	0.00480	96.0	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00520	104	76.0-122	
Vinyl chloride	0.00500	0.00578	116	67.0-131	
Xylenes, Total	0.0150	0.0133	88.7	79.0-123	
(S) Toluene-d8			*100*	*80.0-120*	
(S) 4-Bromofluorobenzene			*91.8*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*123*	*70.0-130*	

Method Blank (MB)

(MB) R3725254-3 11/03/21 18:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
(S) 1,2-Dichloroethane-d4	*95.9*			*70.0-130*
(S) 4-Bromofluorobenzene	*94.7*			*77.0-126*
(S) Toluene-d8	*101*			*80.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3725254-1 11/03/21 17:27 • (LCSD) R3725254-2 11/03/21 17:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00469	0.00479	93.8	95.8	70.0-123			2.11	20
(S) 1,2-Dichloroethane-d4				*96.8*	*94.6*	*70.0-130*				
(S) 4-Bromofluorobenzene				*87.8*	*82.3*	*77.0-126*				
(S) Toluene-d8				*98.3*	*104*	*80.0-120*				

Method Blank (MB)

(MB) R3727557-3 11/06/21 12:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrolein	U		0.00254	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromobenzene	U		0.000118	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
2-Chlorotoluene	U		0.000106	0.00100
4-Chlorotoluene	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500
1,2-Dibromoethane	U		0.000126	0.00100
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,1-Dichloropropene	U		0.000142	0.00100
1,3-Dichloropropane	U		0.000110	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
2,2-Dichloropropane	U		0.000161	0.00100
Di-isopropyl ether	U		0.000105	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	U		0.000337	0.00100

Method Blank (MB)

(MB) R3727557-3 11/06/21 12:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
n-Hexane	U		0.000749	0.0100
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000481	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*109*			*80.0-120*
(S) 4-Bromofluorobenzene	*109*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*98.3*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3727557-1 11/06/21 11:31 • (LCSD) R3727557-2 11/06/21 11:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0206	0.0200	82.4	80.0	19.0-160			2.96	27
Acrolein	0.0250	0.0190	0.0205	76.0	82.0	10.0-160			7.59	26
Acrylonitrile	0.0250	0.0206	0.0216	82.4	86.4	55.0-149			4.74	20
Benzene	0.00500	0.00413	0.00441	82.6	88.2	70.0-123			6.56	20
Bromobenzene	0.00500	0.00401	0.00397	80.2	79.4	73.0-121			1.00	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3727557-1 11/06/21 11:31 • (LCSD) R3727557-2 11/06/21 11:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	0.00500	0.00400	0.00419	80.0	83.8	75.0-120			4.64	20
Bromoform	0.00500	0.00432	0.00430	86.4	86.0	68.0-132			0.464	20
Bromomethane	0.00500	0.00504	0.00531	101	106	10.0-160			5.22	25
n-Butylbenzene	0.00500	0.00409	0.00438	81.8	87.6	73.0-125			6.85	20
sec-Butylbenzene	0.00500	0.00436	0.00424	87.2	84.8	75.0-125			2.79	20
tert-Butylbenzene	0.00500	0.00461	0.00447	92.2	89.4	76.0-124			3.08	20
Carbon tetrachloride	0.00500	0.00396	0.00393	79.2	78.6	68.0-126			0.760	20
Chlorobenzene	0.00500	0.00481	0.00483	96.2	96.6	80.0-121			0.415	20
Chlorodibromomethane	0.00500	0.00434	0.00423	86.8	84.6	77.0-125			2.57	20
Chloroethane	0.00500	0.00470	0.00505	94.0	101	47.0-150			7.18	20
Chloroform	0.00500	0.00465	0.00466	93.0	93.2	73.0-120			0.215	20
Chloromethane	0.00500	0.00381	0.00427	76.2	85.4	41.0-142			11.4	20
2-Chlorotoluene	0.00500	0.00401	0.00398	80.2	79.6	76.0-123			0.751	20
4-Chlorotoluene	0.00500	0.00428	0.00418	85.6	83.6	75.0-122			2.36	20
1,2-Dibromo-3-Chloropropane	0.00500	0.00431	0.00430	86.2	86.0	58.0-134			0.232	20
1,2-Dibromoethane	0.00500	0.00473	0.00462	94.6	92.4	80.0-122			2.35	20
Dibromomethane	0.00500	0.00452	0.00451	90.4	90.2	80.0-120			0.221	20
1,2-Dichlorobenzene	0.00500	0.00468	0.00465	93.6	93.0	79.0-121			0.643	20
1,3-Dichlorobenzene	0.00500	0.00470	0.00484	94.0	96.8	79.0-120			2.94	20
1,4-Dichlorobenzene	0.00500	0.00460	0.00445	92.0	89.0	79.0-120			3.31	20
Dichlorodifluoromethane	0.00500	0.00462	0.00466	92.4	93.2	51.0-149			0.862	20
1,1-Dichloroethane	0.00500	0.00405	0.00417	81.0	83.4	70.0-126			2.92	20
1,2-Dichloroethane	0.00500	0.00431	0.00437	86.2	87.4	70.0-128			1.38	20
1,1-Dichloroethene	0.00500	0.00413	0.00443	82.6	88.6	71.0-124			7.01	20
cis-1,2-Dichloroethene	0.00500	0.00475	0.00449	95.0	89.8	73.0-120			5.63	20
trans-1,2-Dichloroethene	0.00500	0.00429	0.00443	85.8	88.6	73.0-120			3.21	20
1,2-Dichloropropane	0.00500	0.00421	0.00449	84.2	89.8	77.0-125			6.44	20
1,1-Dichloropropene	0.00500	0.00431	0.00440	86.2	88.0	74.0-126			2.07	20
1,3-Dichloropropane	0.00500	0.00450	0.00445	90.0	89.0	80.0-120			1.12	20
cis-1,3-Dichloropropene	0.00500	0.00417	0.00423	83.4	84.6	80.0-123			1.43	20
trans-1,3-Dichloropropene	0.00500	0.00409	0.00402	81.8	80.4	78.0-124			1.73	20
2,2-Dichloropropane	0.00500	0.00354	0.00316	70.8	63.2	58.0-130			11.3	20
Di-isopropyl ether	0.00500	0.00408	0.00423	81.6	84.6	58.0-138			3.61	20
Ethylbenzene	0.00500	0.00462	0.00464	92.4	92.8	79.0-123			0.432	20
Hexachloro-1,3-butadiene	0.00500	0.00596	0.00654	119	131	54.0-138			9.28	20
n-Hexane	0.00500	0.00306	0.00334	61.2	66.8	57.0-133			8.75	20
Isopropylbenzene	0.00500	0.00473	0.00477	94.6	95.4	76.0-127			0.842	20
p-Isopropyltoluene	0.00500	0.00427	0.00446	85.4	89.2	76.0-125			4.35	20
2-Butanone (MEK)	0.0250	0.0202	0.0206	80.8	82.4	44.0-160			1.96	20
Methylene Chloride	0.00500	0.00507	0.00508	101	102	67.0-120			0.197	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3727557-1 11/06/21 11:31 • (LCSD) R3727557-2 11/06/21 11:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	0.0250	0.0206	0.0215	82.4	86.0	68.0-142			4.28	20
Methyl tert-butyl ether	0.00500	0.00418	0.00425	83.6	85.0	68.0-125			1.66	20
Naphthalene	0.00500	0.00635	0.00671	127	134	54.0-135			5.51	20
n-Propylbenzene	0.00500	0.00407	0.00413	81.4	82.6	77.0-124			1.46	20
Styrene	0.00500	0.00446	0.00460	89.2	92.0	73.0-130			3.09	20
1,1,1,2-Tetrachloroethane	0.00500	0.00450	0.00477	90.0	95.4	75.0-125			5.83	20
1,1,2,2-Tetrachloroethane	0.00500	0.00346	0.00342	69.2	68.4	65.0-130			1.16	20
Tetrachloroethene	0.00500	0.00450	0.00485	90.0	97.0	72.0-132			7.49	20
Toluene	0.00500	0.00432	0.00443	86.4	88.6	79.0-120			2.51	20
1,2,3-Trichlorobenzene	0.00500	0.00875	0.00965	175	193	50.0-138	J4	J4	9.78	20
1,2,4-Trichlorobenzene	0.00500	0.00557	0.00640	111	128	57.0-137			13.9	20
1,1,1-Trichloroethane	0.00500	0.00416	0.00423	83.2	84.6	73.0-124			1.67	20
1,1,2-Trichloroethane	0.00500	0.00458	0.00453	91.6	90.6	80.0-120			1.10	20
Trichloroethene	0.00500	0.00555	0.00568	111	114	78.0-124			2.32	20
Trichlorofluoromethane	0.00500	0.00461	0.00499	92.2	99.8	59.0-147			7.92	20
1,2,3-Trichloropropane	0.00500	0.00428	0.00405	85.6	81.0	73.0-130			5.52	20
1,2,4-Trimethylbenzene	0.00500	0.00424	0.00429	84.8	85.8	76.0-121			1.17	20
1,3,5-Trimethylbenzene	0.00500	0.00413	0.00428	82.6	85.6	76.0-122			3.57	20
Vinyl chloride	0.00500	0.00482	0.00513	96.4	103	67.0-131			6.23	20
Xylenes, Total	0.0150	0.0139	0.0141	92.7	94.0	79.0-123			1.43	20
(S) Toluene-d8				*107*	*107*	*80.0-120*				
(S) 4-Bromofluorobenzene				*106*	*107*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*95.9*	*99.1*	*70.0-130*				

Method Blank (MB)

(MB) R3724808-2 11/02/21 14:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00250
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
n-Hexane	U		0.00226	0.00500

Method Blank (MB)

(MB) R3724808-2 11/02/21 14:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Isopropylbenzene	U		0.000425	0.00250
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	0.110		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3724808-1 11/02/21 13:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.569	91.0	10.0-160	
Acrylonitrile	0.625	0.486	77.8	45.0-153	
Benzene	0.125	0.113	90.4	70.0-123	
Bromobenzene	0.125	0.124	99.2	73.0-121	
Bromodichloromethane	0.125	0.115	92.0	73.0-121	
Bromoform	0.125	0.106	84.8	64.0-132	

Laboratory Control Sample (LCS)

(LCS) R3724808-1 11/02/21 13:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromomethane	0.125	0.115	92.0	56.0-147	
n-Butylbenzene	0.125	0.111	88.8	68.0-135	
sec-Butylbenzene	0.125	0.111	88.8	74.0-130	
tert-Butylbenzene	0.125	0.114	91.2	75.0-127	
Carbon tetrachloride	0.125	0.120	96.0	66.0-128	
Chlorobenzene	0.125	0.113	90.4	76.0-128	
Chlorodibromomethane	0.125	0.107	85.6	74.0-127	
Chloroethane	0.125	0.131	105	61.0-134	
Chloroform	0.125	0.117	93.6	72.0-123	
Chloromethane	0.125	0.147	118	51.0-138	
2-Chlorotoluene	0.125	0.120	96.0	75.0-124	
4-Chlorotoluene	0.125	0.108	86.4	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.102	81.6	59.0-130	
1,2-Dibromoethane	0.125	0.115	92.0	74.0-128	
Dibromomethane	0.125	0.120	96.0	75.0-122	
1,2-Dichlorobenzene	0.125	0.113	90.4	76.0-124	
1,3-Dichlorobenzene	0.125	0.116	92.8	76.0-125	
1,4-Dichlorobenzene	0.125	0.111	88.8	77.0-121	
Dichlorodifluoromethane	0.125	0.116	92.8	43.0-156	
1,1-Dichloroethane	0.125	0.116	92.8	70.0-127	
1,2-Dichloroethane	0.125	0.123	98.4	65.0-131	
1,1-Dichloroethene	0.125	0.120	96.0	65.0-131	
cis-1,2-Dichloroethene	0.125	0.113	90.4	73.0-125	
trans-1,2-Dichloroethene	0.125	0.112	89.6	71.0-125	
1,2-Dichloropropane	0.125	0.119	95.2	74.0-125	
1,1-Dichloropropene	0.125	0.125	100	73.0-125	
1,3-Dichloropropane	0.125	0.118	94.4	80.0-125	
cis-1,3-Dichloropropene	0.125	0.119	95.2	76.0-127	
trans-1,3-Dichloropropene	0.125	0.125	100	73.0-127	
2,2-Dichloropropane	0.125	0.105	84.0	59.0-135	
Di-isopropyl ether	0.125	0.121	96.8	60.0-136	
Ethylbenzene	0.125	0.107	85.6	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.154	123	57.0-150	
n-Hexane	0.125	0.120	96.0	55.0-137	
Isopropylbenzene	0.125	0.104	83.2	72.0-127	
p-Isopropyltoluene	0.125	0.105	84.0	72.0-133	
2-Butanone (MEK)	0.625	0.566	90.6	30.0-160	
Methylene Chloride	0.125	0.107	85.6	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.623	99.7	56.0-143	
Methyl tert-butyl ether	0.125	0.108	86.4	66.0-132	

Laboratory Control Sample (LCS)

(LCS) R3724808-1 11/02/21 13:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.125	0.113	90.4	59.0-130	
n-Propylbenzene	0.125	0.114	91.2	74.0-126	
Styrene	0.125	0.103	82.4	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.102	81.6	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.109	87.2	68.0-128	
Tetrachloroethene	0.125	0.124	99.2	70.0-136	
Toluene	0.125	0.112	89.6	75.0-121	
1,2,3-Trichlorobenzene	0.125	0.122	97.6	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.122	97.6	62.0-137	
1,1,1-Trichloroethane	0.125	0.111	88.8	69.0-126	
1,1,2-Trichloroethane	0.125	0.113	90.4	78.0-123	
Trichloroethene	0.125	0.127	102	76.0-126	
Trichlorofluoromethane	0.125	0.128	102	61.0-142	
1,2,3-Trichloropropane	0.125	0.112	89.6	67.0-129	
1,2,4-Trimethylbenzene	0.125	0.102	81.6	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.108	86.4	73.0-127	
Vinyl chloride	0.125	0.139	111	63.0-134	
Xylenes, Total	0.375	0.312	83.2	72.0-127	
(S) Toluene-d8			*102*	*75.0-131*	
(S) 4-Bromofluorobenzene			*97.9*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*106*	*70.0-130*	

Method Blank (MB)

(MB) R3725668-2 11/03/21 18:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00250
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
n-Hexane	U		0.00226	0.00500

Method Blank (MB)

(MB) R3725668-2 11/03/21 18:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Isopropylbenzene	U		0.000425	0.00250
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	0.0997	J	0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*104*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3725668-1 11/03/21 17:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.579	92.6	10.0-160	
Acrylonitrile	0.625	0.527	84.3	45.0-153	
Benzene	0.125	0.112	89.6	70.0-123	
Bromobenzene	0.125	0.127	102	73.0-121	
Bromodichloromethane	0.125	0.116	92.8	73.0-121	
Bromoform	0.125	0.110	88.0	64.0-132	

Laboratory Control Sample (LCS)

(LCS) R3725668-1 11/03/21 17:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromomethane	0.125	0.0859	68.7	56.0-147	
n-Butylbenzene	0.125	0.117	93.6	68.0-135	
sec-Butylbenzene	0.125	0.117	93.6	74.0-130	
tert-Butylbenzene	0.125	0.119	95.2	75.0-127	
Carbon tetrachloride	0.125	0.116	92.8	66.0-128	
Chlorobenzene	0.125	0.115	92.0	76.0-128	
Chlorodibromomethane	0.125	0.114	91.2	74.0-127	
Chloroethane	0.125	0.105	84.0	61.0-134	
Chloroform	0.125	0.108	86.4	72.0-123	
Chloromethane	0.125	0.148	118	51.0-138	
2-Chlorotoluene	0.125	0.119	95.2	75.0-124	
4-Chlorotoluene	0.125	0.112	89.6	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.111	88.8	59.0-130	
1,2-Dibromoethane	0.125	0.119	95.2	74.0-128	
Dibromomethane	0.125	0.122	97.6	75.0-122	
1,2-Dichlorobenzene	0.125	0.110	88.0	76.0-124	
1,3-Dichlorobenzene	0.125	0.114	91.2	76.0-125	
1,4-Dichlorobenzene	0.125	0.112	89.6	77.0-121	
Dichlorodifluoromethane	0.125	0.105	84.0	43.0-156	
1,1-Dichloroethane	0.125	0.108	86.4	70.0-127	
1,2-Dichloroethane	0.125	0.127	102	65.0-131	
1,1-Dichloroethene	0.125	0.107	85.6	65.0-131	
cis-1,2-Dichloroethene	0.125	0.108	86.4	73.0-125	
trans-1,2-Dichloroethene	0.125	0.0982	78.6	71.0-125	
1,2-Dichloropropane	0.125	0.120	96.0	74.0-125	
1,1-Dichloropropene	0.125	0.118	94.4	73.0-125	
1,3-Dichloropropane	0.125	0.121	96.8	80.0-125	
cis-1,3-Dichloropropene	0.125	0.125	100	76.0-127	
trans-1,3-Dichloropropene	0.125	0.132	106	73.0-127	
2,2-Dichloropropane	0.125	0.105	84.0	59.0-135	
Di-isopropyl ether	0.125	0.125	100	60.0-136	
Ethylbenzene	0.125	0.106	84.8	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.149	119	57.0-150	
n-Hexane	0.125	0.108	86.4	55.0-137	
Isopropylbenzene	0.125	0.106	84.8	72.0-127	
p-Isopropyltoluene	0.125	0.109	87.2	72.0-133	
2-Butanone (MEK)	0.625	0.769	123	30.0-160	
Methylene Chloride	0.125	0.0830	66.4	68.0-123	J4
4-Methyl-2-pentanone (MIBK)	0.625	0.696	111	56.0-143	
Methyl tert-butyl ether	0.125	0.0993	79.4	66.0-132	

Laboratory Control Sample (LCS)

(LCS) R3725668-1 11/03/21 17:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.125	0.118	94.4	59.0-130	
n-Propylbenzene	0.125	0.117	93.6	74.0-126	
Styrene	0.125	0.106	84.8	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.104	83.2	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.113	90.4	68.0-128	
Tetrachloroethene	0.125	0.122	97.6	70.0-136	
Toluene	0.125	0.113	90.4	75.0-121	
1,2,3-Trichlorobenzene	0.125	0.117	93.6	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.126	101	62.0-137	
1,1,1-Trichloroethane	0.125	0.111	88.8	69.0-126	
1,1,2-Trichloroethane	0.125	0.121	96.8	78.0-123	
Trichloroethene	0.125	0.128	102	76.0-126	
Trichlorofluoromethane	0.125	0.0951	76.1	61.0-142	
1,2,3-Trichloropropane	0.125	0.119	95.2	67.0-129	
1,2,4-Trimethylbenzene	0.125	0.107	85.6	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.114	91.2	73.0-127	
Vinyl chloride	0.125	0.124	99.2	63.0-134	
Xylenes, Total	0.375	0.319	85.1	72.0-127	
(S) Toluene-d8			*104*	*75.0-131*	
(S) 4-Bromofluorobenzene			*98.7*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*103*	*70.0-130*	

Method Blank (MB)

(MB) R3725313-1 11/03/21 21:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C20 Hydrocarbons	U		0.610	4.00
C20-C34 Hydrocarbons	U		0.611	4.00
(S) o-Terphenyl	*70.0*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3725313-2 11/03/21 21:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C20 Hydrocarbons	25.0	19.5	78.0	50.0-150	
C20-C34 Hydrocarbons	25.0	19.6	78.4	50.0-150	
(S) o-Terphenyl			*77.3*	*18.0-148*	

L1424325-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1424325-09 11/04/21 01:10 • (MS) R3725313-3 11/04/21 01:23 • (MSD) R3725313-4 11/04/21 01:36

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C20 Hydrocarbons	26.4	123	143	141	77.2	68.8	10	50.0-150			1.52	20
C20-C34 Hydrocarbons	26.4	830	794	809	0.000	0.000	10	50.0-150	V	V	1.88	20
(S) o-Terphenyl					*54.1*	*65.3*		*18.0-148*				

Method Blank (MB)

(MB) R3737056-1 12/04/21 09:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C20 Hydrocarbons	U		0.610	4.00
C20-C34 Hydrocarbons	U		0.611	4.00
(S) o-Terphenyl	*82.9*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3737056-2 12/04/21 10:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C20 Hydrocarbons	25.0	21.5	86.0	50.0-150	
C20-C34 Hydrocarbons	25.0	21.2	84.8	50.0-150	
(S) o-Terphenyl			*89.2*	*18.0-148*	

Method Blank (MB)

(MB) R3727013-1 11/08/21 01:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	*105*			*10.0-135*
(S) Tetrachloro-m-xylene	*99.5*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3727013-2 11/08/21 01:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1260	0.167	0.121	72.5	37.0-145	
PCB 1016	0.167	0.152	91.0	36.0-141	P
(S) Decachlorobiphenyl			*61.9*	*10.0-135*	
(S) Tetrachloro-m-xylene			*60.1*	*10.0-139*	

L1424311-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1424311-08 11/08/21 02:40 • (MS) R3727013-3 11/08/21 02:50 • (MSD) R3727013-4 11/08/21 03:01

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.239	U	0.323	0.326	135	137	1	10.0-160			0.881	38
PCB 1016	0.239	U	0.355	0.382	149	160	1	10.0-160			7.38	37
(S) Decachlorobiphenyl					*102*	*103*		*10.0-135*				
(S) Tetrachloro-m-xylene					*105*	*104*		*10.0-139*				

Method Blank (MB)

(MB) R3726727-1 11/05/21 16:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
PCB 1260	U		0.000173	0.000500
PCB 1016	U		0.000270	0.000500
PCB 1221	U		0.000270	0.000500
PCB 1232	U		0.000270	0.000500
PCB 1242	U		0.000270	0.000500
PCB 1248	U		0.000173	0.000500
PCB 1254	U		0.000173	0.000500
(S) Decachlorobiphenyl	*54.2*			*10.0-128*
(S) Tetrachloro-m-xylene	*87.9*			*10.0-127*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3726727-2 11/05/21 16:32 • (LCSD) R3726727-3 11/05/21 16:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.00250	0.00178	0.00245	71.2	98.0	42.0-131		J3	31.7	25
PCB 1016	0.00250	0.00233	0.00301	93.2	120	36.0-135	P	P	25.5	29
(S) Decachlorobiphenyl				*35.2*	*34.0*	*10.0-128*				
(S) Tetrachloro-m-xylene				*82.6*	*110*	*10.0-127*				

Method Blank (MB)

(MB) R3724916-3 11/02/21 20:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000190	0.0000500
Acenaphthene	U		0.0000190	0.0000500
Acenaphthylene	U		0.0000171	0.0000500
Benzo(a)anthracene	U		0.0000203	0.0000500
Benzo(a)pyrene	U		0.0000184	0.0000500
Benzo(b)fluoranthene	U		0.0000168	0.0000500
Benzo(g,h,i)perylene	U		0.0000184	0.0000500
Benzo(k)fluoranthene	U		0.0000202	0.0000500
Chrysene	U		0.0000179	0.0000500
Dibenz(a,h)anthracene	U		0.0000160	0.0000500
Fluoranthene	U		0.0000270	0.000100
Fluorene	U		0.0000169	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500
Naphthalene	U		0.0000917	0.000250
Phenanthrene	U		0.0000180	0.0000500
Pyrene	U		0.0000169	0.0000500
1-Methylnaphthalene	U		0.0000687	0.000250
2-Methylnaphthalene	U		0.0000674	0.000250
2-Chloronaphthalene	U		0.0000682	0.000250
(S) Nitrobenzene-d5	*111*			*31.0-160*
(S) 2-Fluorobiphenyl	*113*			*48.0-148*
(S) p-Terphenyl-d14	*134*			*37.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3724916-1 11/02/21 20:14 • (LCSD) R3724916-2 11/02/21 20:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00200	0.00206	0.00222	103	111	67.0-150			7.48	20
Acenaphthene	0.00200	0.00210	0.00227	105	114	65.0-138			7.78	20
Acenaphthylene	0.00200	0.00207	0.00225	103	112	66.0-140			8.33	20
Benzo(a)anthracene	0.00200	0.00204	0.00220	102	110	61.0-140			7.55	20
Benzo(a)pyrene	0.00200	0.00189	0.00194	94.5	97.0	60.0-143			2.61	20
Benzo(b)fluoranthene	0.00200	0.00198	0.00198	99.0	99.0	58.0-141			0.000	20
Benzo(g,h,i)perylene	0.00200	0.00189	0.00186	94.5	93.0	52.0-153			1.60	20
Benzo(k)fluoranthene	0.00200	0.00195	0.00190	97.5	95.0	58.0-148			2.60	20
Chrysene	0.00200	0.00206	0.00223	103	111	64.0-144			7.93	20
Dibenz(a,h)anthracene	0.00200	0.00185	0.00178	92.5	89.0	52.0-155			3.86	20
Fluoranthene	0.00200	0.00221	0.00242	111	121	69.0-153			9.07	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3724916-1 11/02/21 20:14 • (LCSD) R3724916-2 11/02/21 20:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Fluorene	0.00200	0.00226	0.00247	113	123	64.0-136			8.88	20
Indeno(1,2,3-cd)pyrene	0.00200	0.00184	0.00184	92.0	92.0	54.0-153			0.000	20
Naphthalene	0.00200	0.00203	0.00222	102	111	61.0-137			8.94	20
Phenanthrene	0.00200	0.00210	0.00228	105	114	62.0-137			8.22	20
Pyrene	0.00200	0.00231	0.00254	115	127	60.0-142			9.48	20
1-Methylnaphthalene	0.00200	0.00209	0.00231	105	115	66.0-142			10.0	20
2-Methylnaphthalene	0.00200	0.00197	0.00218	98.5	109	62.0-136			10.1	20
2-Chloronaphthalene	0.00200	0.00220	0.00238	110	119	64.0-140			7.86	20
(S) Nitrobenzene-d5				*116*	*122*	*31.0-160*				
(S) 2-Fluorobiphenyl				*113*	*124*	*48.0-148*				
(S) p-Terphenyl-d14				*124*	*133*	*37.0-146*				

Method Blank (MB)

(MB) R3726453-2 11/05/21 17:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	*67.4*			*14.0-149*
(S) 2-Fluorobiphenyl	*78.3*			*34.0-125*
(S) p-Terphenyl-d14	*98.6*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3726453-1 11/05/21 16:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0585	73.1	50.0-126	
Acenaphthene	0.0800	0.0621	77.6	50.0-120	
Acenaphthylene	0.0800	0.0623	77.9	50.0-120	
Benzo(a)anthracene	0.0800	0.0591	73.9	45.0-120	
Benzo(a)pyrene	0.0800	0.0557	69.6	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0657	82.1	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0600	75.0	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0635	79.4	49.0-125	
Chrysene	0.0800	0.0605	75.6	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0619	77.4	47.0-125	
Fluoranthene	0.0800	0.0638	79.8	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3726453-1 11/05/21 16:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0624	78.0	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0610	76.3	46.0-125	
Naphthalene	0.0800	0.0540	67.5	50.0-120	
Phenanthrene	0.0800	0.0602	75.3	47.0-120	
Pyrene	0.0800	0.0629	78.6	43.0-123	
1-Methylnaphthalene	0.0800	0.0610	76.3	51.0-121	
2-Methylnaphthalene	0.0800	0.0579	72.4	50.0-120	
2-Chloronaphthalene	0.0800	0.0605	75.6	50.0-120	
(S) Nitrobenzene-d5			*69.7*	*14.0-149*	
(S) 2-Fluorobiphenyl			*78.4*	*34.0-125*	
(S) p-Terphenyl-d14			*90.3*	*23.0-120*	

L1424325-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1424325-10 11/05/21 20:15 • (MS) R3726453-3 11/05/21 20:32 • (MSD) R3726453-4 11/05/21 20:52

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0900	0.0216	0.0741	0.105	58.4	93.8	1	10.0-145		J3	34.2	30
Acenaphthene	0.0900	0.0396	0.109	0.144	76.7	118	1	14.0-127		J3	27.9	27
Acenaphthylene	0.0900	U	0.0804	0.100	89.3	113	1	21.0-124			21.9	25
Benzo(a)anthracene	0.0900	0.0407	0.117	0.150	84.9	123	1	10.0-139			24.3	30
Benzo(a)pyrene	0.0900	0.0312	0.0941	0.121	69.8	101	1	10.0-141			24.7	31
Benzo(b)fluoranthene	0.0900	0.0312	0.0955	0.121	71.4	101	1	10.0-140			23.3	36
Benzo(g,h,i)perylene	0.0900	0.0237	0.0817	0.103	64.4	89.7	1	10.0-140			23.2	33
Benzo(k)fluoranthene	0.0900	0.0370	0.0997	0.129	69.6	104	1	10.0-137			25.5	31
Chrysene	0.0900	0.0469	0.143	0.183	106	154	1	10.0-145		J5	24.9	30
Dibenz(a,h)anthracene	0.0900	0.00339	0.0598	0.0683	62.6	73.3	1	10.0-132			13.4	31
Fluoranthene	0.0900	0.123	0.212	0.306	99.2	207	1	10.0-153		J3 J5	36.2	33
Fluorene	0.0900	0.0797	0.151	0.208	79.0	144	1	11.0-130		J3 J5	31.7	29
Indeno(1,2,3-cd)pyrene	0.0900	0.0171	0.0754	0.0907	64.8	83.1	1	10.0-137			18.4	32
Naphthalene	0.0900	0.0569	0.123	0.151	73.5	106	1	10.0-135			20.3	27
Phenanthrene	0.0900	0.410	0.541	0.830	146	474	1	10.0-144	V	J3 V	42.2	31
Pyrene	0.0900	0.333	0.453	0.660	133	369	1	10.0-148		J3 J5	37.3	35
1-Methylnaphthalene	0.0900	0.123	0.273	0.193	166	78.5	1	10.0-142	J5	J3	34.4	28
2-Methylnaphthalene	0.0900	0.0215	0.104	0.0866	91.5	73.4	1	10.0-137			18.2	28
2-Chloronaphthalene	0.0900	U	0.0541	0.0589	60.1	66.5	1	29.0-120			8.62	24
(S) Nitrobenzene-d5					*0.000*	*0.000*		*14.0-149*	J2	J2		
(S) 2-Fluorobiphenyl					*65.3*	*74.2*		*34.0-125*				
(S) p-Terphenyl-d14					*88.8*	*97.1*		*23.0-120*				

L1424325-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1424325-10 11/05/21 20:15 • (MS) R3726453-3 11/05/21 20:32 • (MSD) R3726453-4 11/05/21 20:52

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%

Sample Narrative:

OS: Surrogate failure due to matrix interference

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
P	RPD between the primary and confirmatory analysis exceeded 40%.

GLOSSARY OF TERMS

Qualifier	Description
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Partners Environmental Consulting, Inc.
31100 Solon Road, Suite G
Solon, OH 44319

Billing Information:
Partners Environmental Consulting, Inc.
31100 Solon Road, Suite G
Solon, OH 44319

Pres Chk

Report to: VALERIE WEIR

Email To: TWEIR VWEIR @partnersenv.com

Project Description: CCLRC-12500 EUCLID AVENUE

City/State Collected: EAST CLEVELAND OH

Phone: **800-763-1363**
Fax:

Client Project # 896.118

Lab Project #

Collected by (print): TOM WEIR

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Date Results Needed

Quote #

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOCs 8260	PAHs 8270	TPH C6-C34 8015	PCBs 8082	Remarks	Sample # (lab only)
SB-01 (2-4 FT)	GRAB	SS	2-4	10/28/21	-	2	X		X			-01
SB-01 (8-10 FT)			8-10		-	3	X	X	X	X		-02
SB-02 (0-2 FT)			0-2		-	2	X		X			-03
SB-02 (6-8 FT)			6-8		-	2	X		X			-04
SB-03 (0-2 FT)			0-2		-	3	X		X			-05
SB-03 (6-8 FT)			6-8		-	3	X	X	X	X		-06
SB-04 (4-6 FT)			4-6		-	2	X		X			-07
SB-04 (6-8 FT)			6-8		-	2	X		X			-08
SB-05 (6-8 FT)			6-8		-	3	X		X			-09
SB-05 (8-10 FT)			8-10		-	3	X	X	X	X		-10

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

Remarks: Ohio VAP Protocol

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__UPS __FedEx __Courier _____

Tracking # 5300 4296 8768

Relinquished by : (Signature) — Date: 10/28/21 — Time: 1115 — Received by: (Signature)

Relinquished by : (Signature) — Date: 28/OCT/21 — Time: 17:00 — Received by: (Signature) FEDEX

Relinquished by : (Signature) — Date: — Time: — Received for lab by: (Signature) J Robertson — Date: 10/29/21 — Time: 1350

Trip Blank Received: Yes / No
HCL / MeOH
TBR

Temp: 2.2+0=2.2 °C Bottles Received: 58

Hold: — Condition: NCF / OK

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

If preservation required by Login: Date/Time

Chain of Custody Page 1 of 3

Pace Analytical®
National Center for Testing & Innovation

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

L# 4424325
J092

Acctnum: **PARENVOH**
Template:
Prelogin:
TSR: **Heather Wagner**
PB:
Shipped Via:

Partners Environmental Consulting, Inc.
31100 Solon Road, Suite G
Solon, OH 44319

Billing Information:
Partners Environmental Consulting, Inc.
31100 Solon Road, Suite G
Solon, OH 44319

Pres Chk

Report to: Valerie Weir

Email To: tweir vweir @partnersenv.com

Project Description: CCLRC- 12500 Euclid Ave

City/State Collected: EAS Cleveland OH

Phone: **800-763-1363**
Fax:

Client Project # 896.118

Lab Project #

Collected by (print): Tom Weir

Site/Facility ID #

P.O. #

Collected by (signature): Tom Weir

Immediately Packed on Ice N ___ Y 6

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

Quote #

Date Results Needed

Chain of Custody Page 2 of 3

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Fax: 615-758-5859

L# U424325

Table #

Acctnum: **PARENVOH**

Template:

Prelogin:

TSR: **Heather Wagner**

PB:

Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOCs 8260	PAHs 8270	TPH C6-C34 8015	PCBs 8082	Remarks	Sample # (lab only)
SB-05 (8-10 Ft) DUPLICATE	GRAB	SS	8-10	10/26/21	-	3	X	X	X	X		-11
SB-06 (0-2 Ft)			0-2		-	3	X		X			-12
SB-06 (8-10 ft)			8-10		-	3	X		X	X		-13
MW-01 (4-6 FT)			4-6		-	2	X		X			-14
MW-01 (8-10 FT)			8-10		-	2	X		X			-15
MW-02 (0-2 FT)		SS	0-2	10/26/21	-	3	X		X			-16
MW-02 (2-4 FT)		SS	2-4	10/26/21	-	3	X	X	X			-17
MW-01		GW	-	10/27/21	1432	2	X					-18
MW-01 DUPLICATE			-		1432	2	X					-19
MW-02			-		1458	2	X					-20

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

Remarks: Ohio VAP Protocol

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 5300 4296 0768

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

	Date:	Time:		
Relinquished by: (Signature) Tom Weir	10/28/21	1115	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by: (Signature) PNCOH	28OCT21	17:00	Received by: (Signature) FEDEX	Temp: 2.2+0.2=2.4 °C Bottles Received: 58
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) T. Robertson	Date: 10/29/21 Time: 1350

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Partners Environmental Consulting, Inc.
31100 Solon Road, Suite G
Solon, OH 44319

Billing Information:
Partners Environmental Consulting, Inc.
31100 Solon Road, Suite G
Solon, OH 44319

Report to: VALERIE WEIR

Email To: TWEIR VWEIR @partnersenv.com

Project Description: CCLRC- 12500 EUCLID AVENUE

City/State Collected: EAST CLEVELAND OH

Phone: **800-763-1363**
Fax:

Client Project # 896.118

Lab Project #

Collected by (print): TOM WEIR

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Quote #

Date Results Needed

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOCs 8260	PAHs 8270	TPH GRO-DRO 8015	PCBs 8082								Remarks	Sample # (lab only)
EQP-102621	GRAB	OT	-	10/26/21	1500	6	X	X		X									-21
EQP-102721	↓	↓	-	10/27/21	1300	2	X												-22
TRIP-102621	↓	LAB	-	10/26/21	1000	1	X												-23

Chain of Custody Page 3 of 3

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

L# L1424325

Table #

Acctnum: **PARENVOH**

Template:

Prelogin:

TSR: **Heather Wagner**

PB:

Shipped Via:

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

Remarks: OHIO VAP PROTOCOL

pH ____ Temp ____

Flow ____ Other ____

Samples returned via:
__ UPS __ FedEx __ Courier ____

Tracking # 5300 4296 0768

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
THOMAS	10/28/21	1115	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
PNCOH	28OCT21	17:00	FEDEX
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			J. Robertson

Trip Blank Received: Yes / No HCL / MeoH TBR

Temp: 2.2/2.2 °C Bottles Received: 58

Date: 10/29/21 Time: 1350

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

APPENDIX D
SAMPLING FORMS

PARTNERS ENVIRONMENTAL CONSULTING, INC.
MONITORING WELL SAMPLING FORM

PARTNERS

Project Name: CCLPC -12500 EUCLID | **Project Number:** 896.118

Monitoring Well ID: MW-01	Date: 10/27/21	Start Time:	Field Personnel	TAW
Weather Conditions: cloudy, high 40s		End Time:		
Comments:				

INITIAL MEASUREMENTS

Measured Well Bottom (ft) 12.83 FT BTOC	Well Casing Diameter : 1 -inches		
Measured Depth to Water (ft) 10.63 FT BTOC	Conversion Factor (gal/lineal foot)		
Calculated Water Column (ft) 2.20	1(25") = 0.08	2" = 0.17	3" = 0.38
One Well Volume (gal) 0.18 GAL / 0.7 L Three Well Volumes (gal) 0.5 / 1.9 L	4" = 0.66	6" = 1.50	8" = 2.60
Notes: Measurements from Top of Casing (TOC)			

WELL CONDITIONS

Casing Condition	OK	Not OK	Cap Condition	OK	Not OK	**Well Riser**
Paint Condition	OK	Not OK	Lock Condition	OK	Not OK	Stainless Steel
Inner Casing Condition	OK	Not OK	Surface Seal Condition	OK	Not OK	Steel
Notes:						PVC

PURGE INFORMATION

Purge Method Stainless Steel Bailer | Peristaltic Pump | Grundfos Pump | Other:
Teflon Bailer | Polyethylene Bailer | Bladder Pump

Time	Liters Purged	Flow Rate (ml/min)	Temperature (°C)	PH (S.U.)	Specific Conductivity (mS/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Depth to Water Measurement
Stabilization Criteria (3 Consecutive Readings):			+/- 0.5 °C	+/- 0.1	+/- 3.0%	+/- 10% under 50	+/- 0.3 mg/L	+/-10 mV	
1327	0.5	-	18.3	6.87	1.062	+1000	5.44	-59	-
1334	1	-	19.0	6.94	1.034	+1000	5.88	-118	-
1339	1.5	-	18.9	6.95	1.031	+1000	5.43	-53	-
1344	2	-	19.2	6.90	0.957	+1000	5.26	-48	-
→	DRY								
1430									10.74
1432	SAMPLED								

SAMPLING INFORMATION

Sample Method Stainless Steel Bailer | Peristaltic Pump | Grundfos Pump | Other:
Teflon Bailer | Polyethylene Bailer | Bladder Pump

Comments:
DUPLICATE OBTAINED

Sample Containers	Number of Containers:	Test Methods/Analyte Groups:	Preservative:	Filter (y/n)
40 ml	2	VOC	HCl	-

Sampler (Print Name) Tom Weir | Sampler's Signature Tom Weir

PARTNERS ENVIRONMENTAL CONSULTING, INC.
MONITORING WELL SAMPLING FORM

PARTNERS

Project Name: CCLRC - 12500 Euclid	**Project Number:** 896.118		
Monitoring Well ID: MW-02	Date: 10/27/21	Start Time:	Field Personnel: TAW
Weather Conditions: cloudy, High 40's		End Time:	
Comments:			

INITIAL MEASUREMENTS

Measured Well Bottom (ft) 11.16 ft BGS	Well Casing Diameter : 1 -inches			
Measured Depth to Water (ft) 9.73 ft BGS	Conversion Factor (gal/lineal foot)			
Calculated Water Column (ft) 1.43 ft	1.25" = 0.08	2" = 0.17	3" = 0.38	
One Well Volume (gal) 0.19gal / 0.4L Three Well Volumes (gal) 0.3/1.2L	4" = 0.66	6" = 1.50	8" = 2.60	
Notes: Measurements from Top of Casing (TOC)				

WELL CONDITIONS

Casing Condition	OK	Not OK	Cap Condition	OK	Not OK
Paint Condition	OK	Not OK	Lock Condition	OK	Not OK
Inner Casing Condition	OK	Not OK	Surface Seal Condition	OK	Not OK

Notes:

Well Riser
Stainless Steel
Steel
PVC

PURGE INFORMATION

Purge Method Stainless Steel Bailer; Teflon Bailer; Peristaltic Pump; Polyethylene Bailer; Grundfos Pump; Bladder Pump; Other:

Time	Liters Purged	Flow Rate (ml/min)	Temperature (°C)	PH (S.U.)	Specific Conductivity (mS/cm)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Depth to Water Measurement
Stabilization Criteria (3 Consecutive Readings):			+/- 0.5 °C	+/- 0.1	+/- 3.0%	+/- 10% under 50	+/- 0.3 mg/L	+/-10 mV	
1404	0.5	-	19.0	6.58	0.590	+1000	6.56	-18.9	
→	DRY								
1420	DRY								
1435									10.83
1438	SAMPLE								

SAMPLING INFORMATION

Sample Method Stainless Steel Bailer; Teflon Bailer; Peristaltic Pump; Polyethylene Bailer; Grundfos Pump; Bladder Pump; Other:

Comments:

Sample Containers	Number of Containers:	Test Methods/Analyte Groups:	Preservative:	Filter (y/n)
40ml	2	VOC	HCl	-

Sampler (Print Name) Tom Weir

Sampler's Signature