AVANT GARDNER SITE

KINGS COUNTY, NEW YORK

Remedial Action Work Plan
NYSDEC BCP Number: C224258

Prepared for:

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CERTIFICATIONS

I, Kristine McCarthy MacWilliams, certify that I am currently a NYS registered professional engineer and that this Remedial Action Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and Green Remediation (DER-31).

I certify that all information and statements in this certification are true. I understand that a false statement made herein is punishable as Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Kristine McCarthy MacWilliams, P.E. March 6, 2025

NYS Professional Engineer # 096177 Date Signature

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

REMEDIAL ACTION WORK PLAN

TABLE OF CONTENTS

Contents

CERTIFICATIONS ii

REMEDIAL ACTION WORK PLAN iii

TABLE OF CONTENTS iii

LIST OF ACRONYMS x

Executive Summary 1

Site Description/Physical Setting/Site History 1

Summary of the Remedial Investigation 3

Qualitative Human Health Exposure Assessment (QHHEA) 4

Summary of the Remedy 5

REMEDIAL ACTION WORK PLAN 11

1.0 INTRODUCTION 11

1.1 Site Location and Description 11

1.2 Contemplated End Use 12

1.3 Description of Surrounding Property 12

1.4 Site History 12

1.4.1 Past Uses and Ownership 12

1.4.2 Review of Sanborn Maps 13

1.4.3 Summary of Previous Investigations 14

PSG Interior Vapor Intrusion Investigation 20

PSG Preliminary Interior Investigation 22

PSG Exterior MIP Investigation 23

2.0 DESCRIPTION OF REMEDIAL INVESTIGATION FINDINGS 24

2.1 Summary Remedial Investigations Performed 25

2.1.1 Remedial Investigation – 2021-2022 25

2.1.2 Summary of RI Findings 26
2.1.3 Pre-Design Investigation – 2023 27
2.2 Significant Threat 36
2.3 Geological Conditions 36
2.4 Contamination Conditions 37
2.4.1 Conceptual Model of Site Contamination 37
2.4.2 Description of Areas of Concern 37
2.4.3 Identification of Standards, Criteria and Guidance 38
2.4.4 Soil/Fill Contamination 40
2.4.5 On-Site and Off-Site Groundwater Contamination 48
2.4.6 On-Site and Off-Site Soil Vapor Contamination 54
2.4.7 Potential Sources of Contamination 55
2.4.8 Receptor Populations 56
2.5 Environmental and Public Health Assessments 56
2.5.1 Qualitative Human Health Exposure Assessment 56
2.6 Interim Remedial Action 59
2.7 Remedial Action Objectives 60
2.7.1 Soil 60
2.7.2 Groundwater 60
2.7.3 Soil Vapor 61
3.0 Description of Remedial Action Plan 61
3.1 Evaluation of Remedial Alternatives 61
3.2 Summary of Selected Remedial Actions 68
3.3 Zoning 76
3.3.1 Surrounding Property Uses 76
3.3.2 Citizen Participation 76
3.3.3 Environmental Justice Concerns 76
3.3.4 Land Use Designations 76

3.3.5 Population Growth Patterns 77
3.3.6 Accessibility to Existing Infrastructure 77
3.3.7 Proximity to Cultural Resources 77
3.3.8 Proximity to Natural Resources 77
3.3.9 Off-Site Groundwater Impacts 78
3.3.10 Proximity to Floodplains 78
3.3.11 Geography and Geology of the Site 78
3.3.12 Current Institutional Controls. 78
4.0 Remedial Action Program 78
4.1 Governing Documents 78
4.1.1 Standards, Criteria and Guidance Applicable to Remedial Actions 79
4.1.1.1 Green and Sustainable Remediation and Climate Resiliency 80
4.1.2 Site Specific Health & Safety Plan 81
4.1.3 Quality Assurance Project Plan (QAPP) 82
4.1.4 Soil/Materials Management Plan (SMMP) 83
4.1.5 Community Air Monitoring Plan (CAMP) 83
4.1.6 Contractors Site Operations Plan (SOP) 83
4.1.7 Citizen Participation Plan 84
4.2 General Remedial Construction Information 85
4.2.1 Project Organization 85
4.2.2 Remedial Engineer 85
4.2.3 Remedial Action Construction Schedule 86
4.2.4 Work Hours 86
4.2.5 Site Security 86
4.2.6 Traffic Control 86
4.2.7 Contingency Plan 86
4.2.8 Worker Training and Monitoring 87
4.2.9 Agency Approvals 87
4.2.11 Pre-Construction Meeting with NYSDEC 87
4.2.12 Emergency Contact Information 87
4.3 Site Preparation 87

4.3.1 Mobilization 87
4.3.2 Erosion and Sedimentation Controls 88
4.3.3 Utility Marker and Easements Layout 88
4.3.4 Stabilized Construction Entrance(s) 89
4.3.5 Equipment and Material Staging 89
4.3.6 Decontamination Area 89
4.3.7 Site Fencing 89
4.3.8 Demobilization 89
4.4 Reporting 90
4.4.1 Daily Reports 90
4.4.2 Monthly Reports 91
4.4.3 Other Reporting 91
4.4.4 Complaint Management Plan 92
4.4.5 Deviations from the Remedial Action Work Plan 92
5.0 Remedial Action: Material Removed from the Site 92
5.1 Soil Cleanup Objectives 93
5.2 Remedial Performance Evaluation – Post-Excavation End-Point Sampling 93
5.2.1 End-Point Sampling Frequency 93
5.2.2 Methodology 95
5.2.3 Reporting of Results 95
5.2.4 QA/QC 96
5.2.5 Data Usability Summary Report 100
5.2.6 Reporting of End-Point Data in FER 101
5.3 Soil/Materials Management Plan 101
5.3.1 Soil Screening Methods 101
5.3.2 Stockpile Methods 102
5.3.3 Materials Excavation and Load Out 103
5.3.4 Materials Transport Off-Site 105
5.3.5 Materials Disposal Off-Site 106
5.3.6 Materials Reuse On-Site 109

5.3.7 Fluids Management 109
5.3.8 Demarcation 109
5.3.9 Backfill from Off-Site Sources 110
5.3.10 Stormwater Pollution Prevention 112
5.3.11 Contingency Plan 113
5.3.12 Community Air Monitoring Plan 116
5.3.13 Odor, Dust, and Nuisance Control Plan 119
5.4 Site Management and Environmental Easement 121
5.5 RA Investigation Derived Waste 122
6.0 Residual Contamination to Remain On-Site 123
7.0 Engineering Controls: Site Cover System 124
8.0 Engineering Controls: SSDS 125
9.0 Criteria for Completion of Remediation/Termination of Remedial Systems 125
9.1 Site Cover System 125
9.2 Sub-Slab Depressurization System (SSDS) 125
9.3 Groundwater Monitoring 126
10.0 Institutional Controls 126
10.1 Environmental Easement 126
10.2 Site Management Plan 129
11.0 Final Engineering Report 130
11.1 Certifications 132
12.0 Schedule 133

ATTACHMENTS

Tables

Table 1: Historical Soil Analytical Results
Table 2: Historical Groundwater Analytical Results
Table 3: Remedial Investigation Site Sampling Summary
Table 4: Remedial Investigation Soil Analytical Results
Table 5: Remedial Investigation Groundwater Analytical Results – Temporary Wells
Table 6: Remedial Investigation Groundwater Analytical Results – Permanent Wells
Table 7: Remedial Investigation Soil Vapor Analytical Results
Table 8: Proposed ISCR Injection Intervals and Project-IR Mass
Table 9: Emergency Contacts
Table 10: Estimated Schedule

Figures

Figure 1: Site Boundary Map
Figure 2: USGS Topographic Map
Figure 3: Sample Location Map
Figure 4.1: VOCs Exceedances in Soil – Historical Samples
Figure 4.2: SVOCs Exceedances in Soil – Historical Samples (Phase II)
Figure 4.3: SVOCs Exceedances in Soil – Historical Samples (Phase III, GCE SI)
Figure 4.4: Metals Exceedances in Soil – Historical Samples
Figure 4.5: VOCs Exceedances in Groundwater – Historical Samples
Figure 4.6: SVOCs Exceedances in Groundwater – Historical Samples
Figure 4.7: Metals Exceedances in Groundwater – Historical Samples
Figure 4.8: Metals Dissolved Exceedances in Groundwater – Historical Samples
Figure 4.9: VOCs Exceedances in Soil Vapor/Air – Historical Samples
Figure 5.1: Area of Concern Location Map
Figure 5.2: AOC Cross-Section
Figure 6.1: VOCs Exceedances in Groundwater
Figure 6.2: SVOCs Exceedance in Groundwater
Figure 6.3: Metals Exceedances in Groundwater
Figure 6.4: Metals (Dissolved) Exceedances in Groundwater
Figure 6.5: Pesticides and PCBs Exceedances in Groundwater
Figure 6.6: PFAS Exceedances in Groundwater
Figure 6.7: VOCs Exceedances in Soil Vapor
Figure 7.1: PCE, TCE, cis-1,2-DCE and Vinyl Chloride Isonconcentrations in Shallow Groundwater
Figure 7.2: PCE, TCE, cis-1,2-DCE and Vinyl Chloride Isonconcentrations in Intermediate Groundwater
Figure 7.3: PCE, TCE, cis-1,2-DCE and Vinyl Chloride Isonconcentrations in Deep Groundwater
Figure 7.4 Geological Cross-Section A-A' - PCE, TCE, cis-1,2-DCE and Vinyl Chloride Isoconcentrations in Soil
Figure 7.5: Geological Cross-Section A-A' - PCE, TCE, cis-1,2-DCE and Vinyl Chloride Isoconcentrations in Soil

Figure 7.6: Geological Cross-Section A-A' - PCE, TCE, cis-1,2-DCE and Vinyl Chloride Isoconcentrations in Groundwater
Figure 7.7: Geological Cross-Section B-B' - PCE, TCE, cis-1,2-DCE and Vinyl Chloride Isoconcentrations in Groundwater
Figure 8: AOC-7 and 10 - VOCs Exceedances in Soil
Figure 9.1: AOC-8 Metals Exceedances in Soil
Figure 9.2: Metals Exceedances in Groundwater
Figure 9.3: Metals (Dissolved) Exceedances in Groundwater
Figure 10: AOC 7 and 10 Estimated Limits of Proposed Remedial Excavation
Figure 11: AOC 7 Proposed ISCR Injection Point Locations
Figure 12: Cover System Figure
Figure 13: Proposed Truck Route

Appendices

Appendix A: Green and Sustainable Remediation Requirements
Appendix B: Pre-Design Investigation Data Usability Summary Report
Appendix C: Notice of No Significant Threat
Appendix D: SSDS Documentation
Appendix E: Remedial Cost Estimate
Appendix F: Contained-In Determination
Appendix G: Provectus Product Specifications and Dosing Calculations
Appendix H: Construction Health & Safety Plan
Appendix I: Quality Assurance Project Plan (QAPP)
Appendix J: Community Air Monitoring Plan (CAMP)
Appendix K: NYSDEC-Approved Citizens Participation Plan
Appendix L: Resumes of Key Personnel
Appendix M: Request to Import/Reuse Fill or Soil

LIST OF ACRONYMS

Acronym	Definition
AST	Aboveground Storage Tank
cVOCS	Chlorinated Volatile Organic Compounds
ELAP	Environmental Laboratory Accreditation Program
ESA	Environmental Site Assessment
EPA	United States Environmental Protection Agency
GPR	Ground Penetrating Radar
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations Emergency Response
NYSDEC	New York State Department of Environmental Conservation
NYSDEC DER	New York State Department of Environmental Conservation Division of Environmental Remediation
NYSDOH	New York State Department of Health
NYC DOT	New York City Department of Transportation
NYC OER	New York City Office of Environmental Remediation
OSHA	United States Occupational Health and Safety Administration
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PE	Professional Engineer
PID	Photo Ionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
SCOs	Soil Cleanup Objectives
SCG	Standards, Criteria, and Guidance
SVOCs	Semi-Volatile Organic Compounds
USCS	Unified Soil Classification System
USGS	United States Geological Survey
UST	Underground Storage Tank
TAL	Target Analyte List
TCL	Target Compound List
VOCs	Volatile Organic Compounds

EXECUTIVE SUMMARY

This Remedial Action Work Plan (RAWP) was prepared by PSG Engineering & Geology, D.P.C (PSG) on behalf of Stewart Purchaser LLC and Gardner Purchaser LLC (Volunteer) to remediate the Avant Gardner property located at 111 Gardner Avenue and 140 Stewart Avenue in Brooklyn, New York (the Site). The Site was enrolled in the Brownfield Cleanup Program (BCP) on October 30, 2017, and was listed on the Brownfield Cleanup Agreement (BCA) under site name Avant Gardner, New York State Department of Environmental Conservation (NYSDEC) Site No. C224258.

This RAWP summarizes the nature and extent of contamination as determined from Remedial Investigation (RI) activities performed by PSG between 2019 and 2023. The remedy described in this RAWP is consistent with the procedures defined in the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (DER-10) and complies with NYSDEC standards, criteria, and guidance (SCG). The remedy described in this document also complies with applicable federal, state, and local laws, regulations, and requirements. The NYSDEC and New York State Department of Health (NYSDOH) have determined that this Site does not pose a significant threat to public health or the environment. The remedial investigation for this Site did not identify fish and wildlife resources.

In conjunction with the proposed RAWP scope of work, PSG also conducted Pre-Design Investigation (PDI) activities to address data gaps identified by the NYSDEC in a comment letter dated February 3, 2023. A more detailed description of the proposed Remedial Action (RA) is provided in Section 3.0 of this RAWP.

Site Description/Physical Setting/Site History

The Site is located in the Williamsburg section of Brooklyn, New York and identified as Block 2977 and Lots 1, 14, 15 and 16 on the New York City Tax Map. The Site is approximately 1.3-acres and is bound by Meserole Street to the north, railroad tracks to the south, Gardner Avenue to the east, and Stewart Avenue to the west. The Site is occupied by two (2) one-story buildings,

one on the northeast corner (111 Gardner Avenue) and one on the southwest corner (140 Stewart Avenue), with asphalt paved areas throughout most of the remaining areas of the Site.

The Site is currently an entertainment/music venue, but previously housed steel fabrication operations and a rubbish removal service. Onsite operations consist of an entertainment/music venue, office areas, full-service bars, temporary food stands and a ticket office. The "Brooklyn Mirage" is located in the courtyard between the two buildings. This area includes scaffolding consisting of a two-story catwalk and a four-story observation tower. This structure includes open bars, VIP seating areas, observation decks, and a stage. There are no enclosed areas intended for human occupation within the scaffolding structure.

Site occupation is limited to public and staff occupancy during events, staff required for setup, ticket and office areas, operation, and take-down immediately prior to, during and after the scheduled events. The ticketing area is unused during non-event hours, except for maintenance or repairs. The entire occupancy of the Site includes 15-20 staff members for daily activities and temporary occupancy of up to 4,000 guests on average for larger public events and 300 for smaller events.

From 2000 to 2013, Filco Carting utilized a portion of the 111 Gardner Avenue building and adjacent paved area as a truck maintenance garage for routine maintenance and repair of trucks. The garage used degreasers, lubricants, hydraulic oils, and antifreeze, stored in tanks, 55-gallon drums and other assorted containers. Based on previous assessments at the Site, housekeeping was noted to be poor, and there is the potential for the related use and disposal of these hazardous materials to have impacted environmental conditions at the Site.

Other historical activities included a chemical company/liquid bleach manufacturer that operated from at least 1933 to 1992. Based on Sanborn Maps for the Site, the manufacturing operations appear to have been conducted on the southeastern portion of this parcel. Regulatory records indicate that chemicals were stored in aboveground storage tanks (ASTs) and drums; however, data included in the regulatory database only date back to the 1980s. No information is known on the use, storage or disposal of hazardous materials or the chlorine manufacturing operations prior to the 1980s.

Summary of the Remedial Investigation

Site investigations conducted by GRS Group (GRS) in 2016 determined that the Site contains volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals impacts above applicable standards in soil and groundwater. PSG conducted Membrane Interface Probe (MIP) investigations between September 2017 and January 2020 to identify Areas of Concern (AOCs) for targeted investigation during the RI. Based on the MIP results, PSG identified ten (10) AOCs that warranted further investigation based on photoionization detector (PID), flame ionization detector (FID), or halogen specific detector (XSD) responses.

Sampling data suggest that chlorinated volatile organic compound (cVOC) soil hot spots are present in the vicinity of RI borings 7-B1 and 10-B6, where tetrachloroethene (PCE) concentrations of 2,200 milligram per kilogram (mg/Kg) and 200 mg/Kg, respectively, were identified. These soil hot spots may be source areas with the potential to contribute to additional groundwater impacts. Based on the soil analytical data obtained during the RI and the previous investigations, the remaining VOC exceedances do not appear to have resulted in significant impacts to Site groundwater. Remedial action is warranted to address the cVOC soil hot spots in AOC-7 and AOC-10.

Sitewide historic fill-related impacts are also present in shallow soils. However, these exceedances do not appear to have had a significant impact on groundwater quality at the Site. Additionally, Site soils are capped by the existing buildings and pavement.

Vertical groundwater profiling data collected by PSG in April 2022 identified increasing cVOC concentrations in groundwater from temporary well point 7-TW4. As such, remedial action is warranted to address cVOC impacted groundwater in AOC-7.

Subsurface investigations conducted at the Site between 2016 and 2021 also identified SVOCs, metals, dissolved metals, polychlorinated biphenyls (PCBs), perfluorooctanoic acid (PFOA), and perfluorooctane sulfonic acid (PFOS) in shallow zone groundwater samples at concentration marginally above Ambient Water Quality Guidance (AWQG) levels. These exceedances are likely a result of historical industrial activities and urban fill material at the Site.

Benzene was identified in a soil vapor sample collected at the northwestern property boundary. In addition, cVOCs, including cis 1,2 dichloroethene (c1,2-DCE), PCE, and trichloroethene (TCE), were identified in a soil vapor sample collected along the southern boundary in the vicinity of AOC-7. These findings are consistent with data identified during the previous investigations. No sensitive receptors are present in close proximity to the elevated soil vapor concentrations identified at the Site, with the exception of potentially occupied commercial properties located across the unpaved railroad tracks.

Qualitative Human Health Exposure Assessment (QHHEA)

The RI was sufficient to complete a Qualitative Human Health Exposure Assessment (QHHEA), which was performed to determine whether the Site poses an existing or future health hazard to the Site's occupants or surrounding population and off-site areas. The RI was evaluated to determine whether there is a potential health risk by characterizing the exposure setting, identifying exposure pathways, and evaluating contaminant fate and transport.

Potential pathways to human receptors include direct contact (dermal absorption), ingestion, and inhalation of identified constituents of concern. Offsite direct contact and ingestion with subsurface soils and groundwater is unlikely to occur since contaminated soil at the Site are covered by impervious materials and groundwater beneath the Site and surrounding area are not used for drinking purposes. In addition, no private potable and non-potable wells exist within ½-mile of the Site. Working in accordance with a HASP and a CAMP, as well as wearing proper personal protective equipment to prevent offsite migration of contaminations during construction, should prevent potential offsite exposures. Following remediation activities, occupants of the Site could potentially be exposed to vapor intrusion if remediation of the source area is not completed and if preventive measures are not incorporated to protect against contaminated soil vapor intrusion. However, two active sub-slab depressurization systems (SSDS) currently in place at the Site are effectively protecting the buildings from vapor intrusion and rendering the potential vapor intrusion pathway incomplete. Post-remedial soil vapor sampling will be conducted at the southern property boundary, adjacent to the AOC-7 cVOC hot spot, to determine if additional mitigation measures are warranted. No public events will take place during remediation activities or until the

cover system is complete, and no materials will be staged at the Site once the venue is reopened for public events.

Summary of the Remedy

The objective of this RAWP is to achieve a Track 4 remedy for commercial use consisting of cVOC soil and groundwater hot spot remediation, and engineering and institutional controls to prevent exposure to subsurface contaminated media. The developed remedial program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows:

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals;
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development; and
- Additionally, to incorporate green remediation principles and techniques to the extent feasible in the future development at this Site, any future on-site buildings shall be constructed, at a minimum, to meet the 2020 Energy Conservation Construction Code of New York (or most recent edition) to improve energy efficiency as an element of construction.

As part of the remedial program, to evaluate the remedy with respect to green and sustainable remediation principles, an environmental footprint analysis was completed. The environmental footprint analysis was completed using the U.S. Environmental Protection Agency (EPA) Spreadsheets for Environmental Footprint Analysis (SEFA) calculator. Water consumption, greenhouse gas emissions, renewable and non-renewable energy use, waste reduction and material use were estimated, and goals for the project related to these green and sustainable remediation metrics, as well as for minimizing community impacts, protecting habitats and natural and cultural resources, and promoting environmental justice, were incorporated into the remedial program, as appropriate. Progress with respect to green and sustainable remediation metrics will be tracked during implementation of the remedial action and reported in the Final Engineering Report (FER), including a comparison to the goals established during the remedial program.

The Environmental Footprint Analysis, which incorporates a Green Remediation Implementation Plan to detail procedures and tracking of these items and a Climate Screening of the Site to identify potential changes in climate hazards, is included in **Appendix A**.

To ensure environmentally responsible remediation at the Site, the following goals have been established and will be tracked during the remedial action:

- Minimize Greenhouse Gas Emissions: Optimize fuel use and incorporate clean energy sources to reduce emissions.
- Reduce Energy Consumption: Use energy-efficient equipment and practices, minimizing idle times and excess usage.
- Conserve Water: Optimize water use for ISCR and implement water-saving practices.
- Minimize Soil Impacts: Conduct precise excavations and use locally sourced clean soil for backfilling.
- Effective Waste Management: Reduce waste generation and ensure proper disposal in compliance with regulations.
- Promote Worker Safety and Community Health: Implement protective measures and maintain open communication with the community.
- Sustainable Practices: Use environmentally friendly materials and green procurement practices.

Additionally, a Climate Screening Checklist was completed for the Site to evaluate the impact of climate change on the project site and the proposed remedy. Based on the results of the Climate

Screening Checklist, no further actions are required at this time. The Climate Screening Checklist is provided in **Appendix A**.

The following remedy is proposed for the Site:

1. **Excavation:** PSG will conduct remedial hot spot excavations at AOC-7 and AOC-10 to remove soils above the water table exceeding the protection of groundwater soil cleanup objectives (PGSCOs) for cVOCs. The remedial excavations are expected to encompass an area approximately 660 sf at AOC-7 and 330 sf at AOC-10 and extend from the ground surface to the water table (encountered between 5 to 10 feet below ground surface [bgs]). Excavated soil will be temporarily stockpiled or staged on-Site in roll-offs, pending disposal to an appropriate off-site disposal facility. All roll-off containers will be lined and covered at the end of each workday. The remedial excavations will be backfilled with clean soil meeting the requirements of 6 NYCRR Part 375-6.7(d), and the asphalt and concrete pavement will be restored. Prior to conducting the excavations, PSG will complete waste characterization sampling to obtain acceptance of the waste by the selected disposal facility. PSG obtained a Contained-In Determination from the NYSDEC on November 20, 2024 which clarified that soil excavated from AOC-10 and soils excavated from AOC-7 except the soil within the area delineated to the west by boring 7-B2; to the south by boring 7-1S; to the north by 7-B1N; and to the east by 7-B1E did not have to be managed as hazardous waste. The Contained-In Determination further stated that a contained-in request could be made for soils from borings 7-B1W, 7-B1WW, and 7B1 after the area was excavated and confirmatory samples were received; until that time, soils from these borings would be characterized as hazardous waste. An estimated 321 cubic yards of non-hazardous soil and up to 22 cubic yards of hazardous soil is expected to be excavated and removed from the Site.

2. **In-Situ Chemical Reduction (ISCR):** PSG consulted with Provectus Environmental Products, Inc. (Provectus) to develop an appropriate chemical injection plan to address the cVOC impacts in soil and groundwater at the Site. Provect-IR® is a unique mixture of reagents that optimizes the in situ reductive dechlorination of chemicals present in soil and groundwater. Following placement of Provect-IR® into the subsurface environment, a number of physical, chemical and microbiological processes combine to create very strong reducing conditions that

stimulate rapid and complete dechlorination of organic solvents and other recalcitrant compounds.

Prior to backfilling the cVOC soil hot spot excavation at AOC-7, Provect-IR® will be applied in the open excavation at 2% of soil mass using a 3-foot long vertical target interval at the water table. A total of 1,000 pounds of Provect-IR® is estimated for the excavation.

The ISCR program will also include using a direct push-drill rig to inject Provect-IR® into the subsurface to address the chlorinated solvent target area. The ISCR injection activities will include a 3,000 square foot target area with a maximum 110-foot-long vertical target zone, which is the effective limit of the direct-push equipment at the Site. The Provect-IR® will be applied at an average of 0.30% of soil mass, which will ensure effective reagent distribution while overcoming the reagent demand for contaminant destruction. The ISCR program will also incorporate bioaugmentation with Dehalococcoides (DHC; 29 liters) to ensure efficient cVOC destruction.

The injections will include the application of approximately 34,800 pounds of Provect-IR® which will be mixed with approximately 1,728 gallons of water. Injections will be applied to 23 injection points across the Site. Six of these injection points, which cover a 400 square foot area, will be applied from 15 to 110 feet bgs, where the highest degree of cVOC impacts in groundwater are located. The residual plume target zone is from 15 to 40 feet bgs and will be addressed via seventeen other injection points.

With the exception of a cVOC hot spot in AOC-7, relatively consistent cVOC impacts are present in intermediate and deep groundwater samples across the Site, with similar concentrations identified in offsite, upgradient borings and monitoring wells. These results indicate that the deep and intermediate zones have also been impacted by an offsite regional plume, which has migrating onto the Site. Based on prior measurements, the aquifer exhibits reducing biogeochemical conditions including dissolved oxygen (DO) at less than 1 part per million (ppm) and negative oxidation-reduction potential (ORP), and neutral pH. The objective of the ISCR program is to reduce the cVOC groundwater concentrations at AOC-7 such that

cVOC concentrations are more consistent with sitewide conditions and to enhance natural attenuation for further reduction of the residual concentrations.

3. Monitoring Well Installations: PSG will install monitoring wells around the injection area to ensure that the treatment does not alter groundwater flow and to monitor for potential off-site migration to the south. Two downgradient monitoring well clusters and one monitoring well couplet to the southwest will be installed to monitor the effectiveness of the ISCR program at AOC-7 and to monitor for potential off-site migration to the south. Each monitoring well cluster will include a shallow well screened at 5-20 feet bgs, two intermediate wells screened at 35-40 feet bgs and 65-70 feet bgs, respectively, and a deep well screened at 105-110 feet bgs. One monitoring well cluster will be installed immediately west-northwest of the ISCR treatment area at AOC-7, and a second downgradient monitoring well cluster will be installed in the sidewalk or edge of pavement along Stewart Avenue, immediately west-northwest of AOC-3. In addition, PSG will install two monitoring wells near the southern property boundary, in the vicinity of RI temporary well 7-TW3.The monitoring wells will be installed to 25 feet bgs and 45 feet bgs, respectively, to intersect the Provect-IR® residual plume target zone at 15 to 40 feet bgs. The shallow monitoring well will be screened at 5-20 feet bgs and the deeper monitoring well will be screened at 35-40 feet bgs.

4. Groundwater Sampling: PSG will conduct pre- and post-remediation groundwater sampling events to establish baseline conditions and monitor the effectiveness of the RA. Groundwater monitoring will include sampling the existing monitoring wells (MW-1, MW-3, MW-4, MW-5, and MW-6) and the newly installed cluster and couplet wells prior to and approximately 60-days after completing the ISCR injections, and on a quarterly basis thereafter. PSG notes that existing monitoring well MW-2 will be demolished during the cVOC hot spot excavation at AOC-7. Monitoring for contaminants of concern and geochemical degradation parameters will be completed up-gradient, down-gradient, and within the treatment zone. Groundwater samples will be analyzed for total and dissolved methods via Environmental Protection Agency (EPA) Method 6020B/7470A chloride, sulfate, nitrate, and nitrite via EPA Method 300, total organic carbon via EPA Method 9060A, and dissolved gases

via EPA Method 3810. PSG will conduct the groundwater sampling events in accordance with the procedures presented in the QAPP (Appendix I).

5. Engineering Controls - Site Cover System: The site currently has an existing cover system consisting of asphalt, concrete, and building slabs. This cover system will be restored following the completion of the excavation outlined in remedy element 1, above, and will be visually inspected to ensure that the engineering control is functioning to prevent direct exposure to remaining contaminated soil.

6. Engineering Controls – Sub-Slab Depressurization Systems: There are two existing SSDSs (one installed beneath 140 Stewart Avenue and one beneath 111 Gardner Avenue buildings). These systems were installed in May 2016 and June 2017, respectively, and have been operating continuously since then to mitigate the potential for vapor intrusion from the subsurface into the Site buildings. The SSDSs will continue to operate until permission is granted from NYSDEC to shut them down.

7. Institutional Controls – Environmental Easement: An Environmental Easement (EE) will be recorded against the property to ensure long-term management of remaining contamination and to require implementation of the Site Management Plan (SMP). The EE will include use restrictions limiting the use of the Site to commercial/industrial use, restricting the use of groundwater, and restricting unauthorized excavation or disturbance of the cover system.

8. Institutional Controls – Site Management Plan: An SMP will be developed which will include, but not be limited to: an Institutional and Engineering Control Plan; and Excavation Work Plan; a Monitoring Plan; and an Operation and Maintenance Plan.

REMEDIAL ACTION WORK PLAN

1.0 INTRODUCTION

Stewart Purchaser, LLC and Gardner Purchaser, LLC entered into a BCA with the NYSDEC in October 2017, to investigate and remediate the 1.83-acre property located at 111 Gardner Avenue and 140 Stewart Avenue in Brooklyn, Kings County, New York. Stewart Purchaser, LLC and Gardner Purchaser, LLC are collectively a Volunteer in the BCP. Commercial use is proposed for the property.

This RAWP summarizes the nature and extent of contamination as determined from data gathered during the RI performed between May and June 2021. The RAWP provides an evaluation of a Track 1 cleanup and other applicable Remedial Action alternatives, their associated costs, and the recommended and preferred remedy. The remedy described in this RAWP is consistent with the procedures defined in DER-10 and complies with applicable SCGs. The remedy described in this RAWP also complies with applicable Federal, State, and local laws, regulations, and requirements. The NYSDEC and NYSDOH have determined that this Site does not pose a significant threat to human health and the environment. The RI for this Site did not identify fish and wildlife resources.

A formal Remedial Design document /will not be prepared.

1.1 SITE LOCATION AND DESCRIPTION

The Site is located in Kings County, Brooklyn, New York and is identified as Block 2977 and Lots 1, 14, 15, and 16 on the Brooklyn Tax Map. The Site is situated on an approximately 1.83-acre area bounded by Meserole Street to the north, the Long Island Railroad to the south, Gardner Avenue to the east, and Stewart Avenue to the west. A United States Geological Survey (USGS) topographical quadrangle map (**Figure 1**) depicts the Site location. A Site Boundary Map is attached as **Figure 2**.

1.2 CONTEMPLATED END USE

The Site is currently an entertainment/music venue and will continue to serve as an entertainment/music venue following the completion of remedial activities. The RA to be performed under this RAWP is intended to make the Site protective of human health and the environment consistent with its current use. There is currently no proposed redevelopment plan for the Site.

1.3 DESCRIPTION OF SURROUNDING PROPERTY

According to the New York City (NYC) Oasis Map, the Site and surrounding area are located in a Manufacturing District, which is currently zoned "Industrial and Manufacturing Buildings". North of the Site, and across Meserole Street is Best Choice Trading Corporation and Alexander Supply, which operate in an industrial building. Oriental Lumber is located east of the Site and across Gardner Avenue. Another industrial building, D&M Lumber Products, is located west of the Site, across Stewart Avenue. The southern Site border is an active railroad line, owned by the Long Island Railroad. South of the railroad are the following industrial buildings; Caesarstone Quartz Surfaces, United Rentals, and Montebello Food Corporation. PSG identified no sensitive receptors within a 500-foot radius of the Site. Newtown Creek is approximately 1,190 feet to the west of the Site. Residential buildings are located approximately 1,460 feet southeast of the Site. No daycare facilities, hospitals, schools, senior living centers, or other potential sensitive receptors are located within 500 feet of the Site.

1.4 SITE HISTORY

1.4.1 Past Uses and Ownership

From 2000 to 2013, Filco Carting utilized a portion of the 111 Gardner Avenue building and adjacent paved area as a truck maintenance garage for routine maintenance and repair of trucks. The garage used degreasers, lubricants, hydraulic oils, and antifreeze, stored in tanks, 55-gallon drums and other assorted containers. Based on previous assessments at the Site, housekeeping was

noted to be poor and there is the potential for the related use and disposal of these hazardous materials to have impacted environmental conditions at the Site.

Other historical activities included a chemical company/liquid bleach manufacturer that operated from at least 1933 to 1992. Based on Sanborn Maps for the Site, the manufacturing operations appear to have been conducted on the southeastern portion of this parcel. Regulatory records indicate that chemicals were stored in aboveground storage tanks (ASTs) and drums; however, data included in the regulatory database only date back to the 1980s. No information is known on the use, storage or disposal of hazardous materials or the chlorine manufacturing operations prior to the 1980s.

1.4.2 Review of Sanborn Maps

Sanborn Maps available for this Site were reviewed prior to preparation of the RAWP and are summarized below.

1888, 1907: The Site is depicted as unimproved land.

1933: The Site is depicted as developed with a rail line and rail spur on the eastern portion of the property. To the west of the rail line, a liquid bleach manufacturing structure is depicted. The Site is depicted as developed with an iron and steel warehouse and iron storage area on the western portion of the property.

1951: The Site is depicted as developed with a rail line and rail spur on the eastern portion of the property. To the west of the rail line, a gas tank (near the northern property boundary), an office/warehouse/auto garage building, a liquid bleach manufacturing structure, and warehouse are depicted. Three storage areas are depicted in the central portion of the property. The Site is depicted as developed with an iron and steel warehouse on the western portion of the property.

1965: The Site is depicted as developed with a warehouse and office on the northeastern corner of the property. A rail line and rail spur are depicted on the eastern portion of the Site. To the west of the rail line, a gas tank (near the northern property boundary), an office/warehouse/auto garage building, a liquid bleach manufacturing structure, and warehouse are depicted. The Site is depicted as developed with a vacant structure on the western portion of the property.

1968, 1977, 1979, 1980-1982, 1986-1995: The Site is depicted as developed with a warehouse and office on the northeastern corner of the property. A rail line and rail spur are depicted on the eastern portion of the Site. To the west of the rail line, a gas tank (near the northern property boundary), an office/warehouse/auto garage building, a liquid bleach manufacturing structure, and warehouse are depicted. The Site is depicted as developed with a structure that appears to be utilized for lumber storage on the western portion of the property.

2001-2005: The Site is depicted as developed with a warehouse and office on the northeastern corner of the property. A rail line and rail spur are depicted on the eastern portion of the Site. The Site is depicted as developed with a structure that appears to be utilized for lumber storage on the western portion of the property.

2006-2007: The Site is depicted as developed with a warehouse and office on the northeastern corner of the property. A rail line and rail spur are depicted on the eastern portion of the Site. The Site is depicted as developed with a "Steel Co" on the western portion of the property.

1.4.3 Summary of Previous Investigations

1.4.3.1 Pre-BCP Reports

The following environmental work plans and reports were prepared for the Site prior to the Site's entry into the BCP on October 30, 2017.

- *Phase I Environmental Site Report,* January 2016, prepared by GRS,
- *Phase II Environmental Site Assessment Report,* February 2016, prepared by GRS,
- *Phase III Environmental Site Assessment Report,* March 2016, *prepared by GRS,*
- *SSDS Installation & Air Sampling Report,* May 2016, prepared by NYCO Environmental & Dewatering Corp (NYCO),
- *Sampling and Excavation Plan,* January 2017, prepared by GCE,
- *Additional Limited Site Investigation Report,* April 2017, prepared by GCE,
- *Geotechnical Engineering Report,* April 2017, prepared by GZA GeoEnvironmental of New York (GZA),
- *Vapor Intrusion Investigation,* May 2017, prepared by PSG; and

- *Preliminary Interior Investigation,* September 2017, prepared by PSG.

Salient information presented in these reports is summarized below.

Phase I ESA, GRS (January 2016):

- From 2000 to 2013, Filco Carting utilized a portion of the 111 Gardner Avenue building and adjacent paved area as a truck maintenance garage for routine maintenance and repair of the trucks that are part of Filco Carting. The garage used degreasers, lubricants, hydraulic oils, and antifreeze and all were stored in tanks, 55-gallon drums and other assorted containers. Housekeeping was noted to be poor. Based on the observed conditions, there is the potential for the related use and disposal of these hazardous materials to have impacted environmental conditions at the property.

- Historical activities included a chemical company/liquid bleach manufacturer that operated from at least 1933 to 1992. Based on the review of Sanborn Maps, the manufacturing operations were conducted in a set of connecting buildings on the southeastern portion of this parcel. Regulatory records indicate chemicals were stored in four ASTs and drums; however, data included in the regulatory database only date back to the 1980s. No information is known on the use, storage or disposal of hazardous materials or the chlorine manufacturing operations prior to the 1980s.

Phase II ESA, GRS (February 2, 2016):

- The scope consisted of the installation of 11 soil borings on the property on January 21, 2016. Three soil borings were advanced at the Skorr Steel property at 140 Stewart Avenue to depths between 15 and 20 feet bgs, and one temporary well was constructed. Seven soil borings were advanced at the Filco Carting property at 111 Gardner Avenue to depths of 15 feet bgs, and three temporary wells were constructed. No elevated PID readings above ambient air concentrations (<2.0 ppm) or olfactory/visual indications of contamination were observed in the samples collected. Groundwater was encountered in each of the borings at depths of between 9.0 and 14 feet bgs. Eleven soil samples (one from each boring) and four groundwater samples were analyzed for VOCs, polynuclear aromatic hydrocarbons (PAHs), total petroleum hydrocarbons (TPH) as diesel range organics

(DRO), gasoline range organics (GRO), and oil range organics (ORO), and Resource Conservation Recovery Act (RCRA) 8 metals.

- Soil samples were collected from 9 and 10 feet bgs at 111 Gardner Avenue and from 14 feet bgs at 140 Stewart Avenue
- Evidence of soil and groundwater impact was detected during this investigation:
    - Numerous metals (mercury, arsenic, barium, cadmium, total chromium, lead, and selenium) were detected in one or more soil samples at concentrations above the NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs). Mercury, arsenic, and lead were detected in one or more of the soil samples at concentrations that exceed the NYSDEC Industrial Use SCO (IUSCO). Arsenic was detected at a maximum concentration of 50.3 mg/Kg; barium was detected at a maximum concentration of 4,040 mg/Kg; cadmium was detected at a maximum concentration of 2.5 mg/Kg; chromium was detected at a maximum concentration of 81.4 mg/Kg; lead was detected at a maximum concentration of 5,340 mg/Kg; mercury was detected at a maximum concentration of 429 mg/Kg; and selenium was detected at a maximum concentration of 4.36 mg/Kg.
    - Several PAHs, including benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)pyrene, chrysene, dibenz(a,h)anthracene, and indeno(1,3,4-cd)pyrene were detected in one or more of the soil samples above the NYSDEC UUSCOs, with benzo(a)pyrene detected in one soil sample above the NYSDEC IUSCO. Benzo(a)anthracene was detected at a maximum concentration of 4.05 mg/Kg; benzo(b)fluoranthene was detected at a maximum concentration of 0.849 mg/Kg; benzo(k)pyrene was detected at a maximum concentration of 3.44 mg/Kg; chrysene was detected at a maximum concentration of 3.68 mg/Kg; dibenz(a,h)anthracene was detected at a maximum concentration of 0.605 mg/Kg; and indeno(1,3,4-cd)pyrene was detected at a maximum concentration of 1.82 mg/Kg.
    - Dissolved arsenic (maximum concentration of 225 micrograms per liter (µg/L)), mercury (maximum concentration of 7.35 µg/L), and lead (maximum concentration of

1,610 µg/L) were detected in one or more of the groundwater samples at concentrations above the NYSDEC AWQS.

- PAHs including benzo(b)fluoranthene (maximum concentration of 0.625 µg/L), benzo(k)fluoranthene (maximum concentration of 0.259 µg/L), chrysene (maximum concentration of 0.87 µg/L), and indeno(1,3,4-cd)pyrene (maximum concentration of 0.204 µg/L) were also detected in one or more of the groundwater samples above the AWQS.
- CVOCs including PCE, TCE, c12-DCE, and vinyl chloride were detected in two groundwater samples above the AWQS. PCE was detected at a maximum concentration of 46.1 µg/L, TCE was detected at a maximum concentration of 9.65 µg/L, c12-DCE was detected at a maximum concentration of 124 µg/L, and vinyl chloride was detected at a maximum concentration of 17.8 µg/L.

Phase III Investigation, GRS (March 11, 2016):

- Twenty-two (22) soil borings were advanced on the property on February 24-26, 2016. Each soil boring was advanced to a depth of 10 bgs. Continuous soil samples were collected from the borings to the terminal depths. Soil samples were collected at intervals at 3, 6, and 9 feet bgs. In order to evaluate groundwater quality, four monitoring wells were installed at depths of 18 feet bgs.
- Soil encountered at the property consisted mainly of dark brown and black sand.
- The laboratory report indicated that numerous metals (arsenic, barium, cadmium, chromium, lead, mercury, and silver) were detected in one or more soil samples at concentrations above the UUSCOs. Mercury, arsenic, barium, and lead were detected in one or more of the soil samples at concentrations that exceeded the Commercial Use (CU) SCOs. Arsenic was detected at a maximum concentration of 263 mg/Kg; barium was detected at a maximum concentration of 5,570 mg/Kg; cadmium was detected at a maximum concentration of 4.45 mg/Kg; chromium was detected at a maximum concentration of 457 mg/Kg; lead was detected at a maximum concentration of 5,670

mg/Kg; mercury was detected at a maximum concentration of 52.3 mg/Kg; silver was detected in one soil sample at a concentration of 3.61 mg/Kg.

- The VOCs c12-DCE and TCE were detected in two soil samples above UUSCOs at maximum concentrations of 22.1 mg/Kg and 127 mg/Kg, respectively. TCE was detected in one soil sample above UUSCOs at a concentration of 6.25 mg/Kg and vinyl chloride was detected in the same soil sample above UUSCOs at 0.0782 mg/Kg.

- SVOCs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,3,4-cd)pyrene, naphthalene, phenanthrene, and pyrene were detected in one or more of the soil samples above the UUSCOs. Benzo(a)anthracene, benoz(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene were detected above CUSCOs in multiple soil samples. Benzo(a)anthracene was detected at a maximum concentration of 223 mg/Kg; benzo(a)pyrene was detected at a maximum concentration of 196 mg/Kg; benzo(b)fluoranthene was detected at a maximum concentration of 217 mg/Kg; benzo(g,h,i)perylene was detected at a maximum concentration of 115 mg/Kg; benzo(k)fluoranthene was detected at a maximum concentration of 71.7 mg/Kg; chrysene was detected at a maximum concentration of 165 mg/Kg; dibenz(a,h)anthracene was detected at a maximum concentration of 29.5 mg/Kg; fluoranthene was detected at a maximum concentration of 589 mg/Kg; fluorene was detected at a maximum concentration of 146 mg/Kg; indeno(1,3,4-cd)pyrene was detected at a maximum concentration of 93.6 mg/Kg; naphthalene was detected at a maximum concentration of 283 mg/Kg; phenanthrene was detected at a maximum concentration of 877 mg/Kg; and pyrene was detected at a maximum concentration of 555 mg/Kg.

- Dissolved arsenic (maximum concentration of 166 µg/L), chromium (maximum concentration of 697 µg/L), lead (maximum concentration of 672 µg/L), and mercury (maximum concentration of 0.884 µg/L) were detected in one or more of the groundwater samples at concentrations above the AWQS.

- SVOCs including benzo(a)pyrene (maximum concentration of 0.493 µg/L), benzo(b)fluoranthene (maximum concentration of 0.647 µg/L), benzo(k)fluoranthene (maximum concentration of 0.212 µg/L), chrysene (maximum concentration of 0.526 µg/L), and indeno(1,3,4-cd)pyrene (maximum concentration of 0.275 µg/L) were detected in two groundwater samples above the AWQS.

- VOCs including 1,2-dichlorobenzene, 1,1-trichloroethene, p-isopropyltoluene, PCE, TCE, toluene, 1,2,4-trimethylbenzene, 1,2,3-trimethylbenzene, 1,2,5-trimethylbenzene, and total xylenes were detected in one or more groundwater samples above the AWQS. 1,2-dichlorobenzenw was detected at 19.9 µg/L; 1,1,-dichloroethene was detected at 10.8 µg/L; p-isopropyltoluene was detected at 7.91 µg/L; PCE was detected at a maximum concentration of 34,900 µg/L; toluene was detected at 7.05 µg/L; TCE was detected at 3,360 µg/L; 1,2,4-trimethylbenzne was detected at 15.8 µg/L; 1,2,3-trimethylbenzene was detected at 8.41 µg/L; vinyl chloride was detected at 650 µg/L; 1,3,5-trimethylbenzene was detected at 7.86 µg/L; and total xylenes were detected at 10.3 µg/L.

Sub-Slab Depressurization System (SSDS) Letter Report, NYCO, May 20, 2016:

- This letter report indicated that a SSDS was installed in the 140 Stewart building and activated on May 16, 2016.

- NYCO collected vacuum readings on May 18, 2016, and sub-slab soil gas samples on May 19, 2021, which confirmed the operational effectiveness of the SSDS.

Confirmatory indoor air sampling was conducted on May 8, 2017, December 28, 2017, and December 31, 2017. The results were provided to the NYSDEC and NYSDOH on January 31, 2018.

Limited Site Investigation, GCE (February 2017):

- In February 2017, GCE collected six soil, 15 groundwater, four soil vapor, and one indoor air sample at the Site.

- PAHs were detected and metals were detected in soils above UUSCOs but below restricted residential SCOs (RRSCOs). Mercury, benzo(a)pyrene, and arsenic were detected above

RRSCOs.

- VOCs, including PCE, acetone and methyl ethyl ketone, were detected above the UUSCOs but below RRSCOs.
- Groundwater samples identified numerous metals and SVOCs above their respective AWQS. In addition, VOCs c12-DCE, PCE, TCE, vinyl chloride, total xylenes, p-isopropyl toluene, benzene, naphthalene, and toluene were detected above the AWQS.
- Carbon tetrachloride was detected in each of the air soil vapor samples, with a maximum concentration of 0.77 micrograms per cubic meter ($\mu g/m^3$). 1,1,1-trichloroethane (111-TCA) was detected in two air samples, with a maximum concentration of 2.43 $\mu g/m^3$. PCE was detected in each of the air samples, with a maximum concentration of 4,490 $\mu g/m^3$. Finally, TCE was detected in each of the air samples, with a maximum concentration of 1,440 $\mu g/m^3$.

In summary, previous environmental investigations have determined that the Site contains VOC, SVOC, and metal impacts above applicable NYSDEC standards and guidance values in both, soil, and groundwater. In addition, VOCs were detected in soil vapor below the building slabs. Following PSG's review of the previous environmental reports, PSG completed additional investigations, as summarized below.

Copies of the previous reports are included as Appendix A of the *Remedial Investigation Report* (RIR), prepared by PSG, dated March 2023. A Sample Location Map depicting historical sampling locations is provided as **Figure 3**. Historical soil and groundwater analytical data from previous reports are summarized in **Tables 1 and 2** and depicted on **Figures 4.1 through 4.9.**

PSG Interior Vapor Intrusion Investigation

On May 8, 2017, PSG collected four (4) indoor air samples from inside the 111 Gardner Avenue building and an ambient air sample from the western side of the building in the parking lot area. Samples were collected in 6-liter Summa canisters over an 8-hour period. One indoor air sample was collected from the men's restroom, one from the women's restroom, one from the

storage/office space, and one from the bar area. Samples were analyzed for VOCs via the United States Environmental Protection Agency (EPA) Method TO-15.

Additionally, on May 19, 2017, PSG collected three (3) indoor air samples and two (2) sub-slab soil gas samples from inside the 111 Gardner Avenue building, and an ambient air sample from the western side of the building in the parking lot area. Samples were collected in 6-liter Summa canisters over an 8-hour period. One indoor air sample was collected from the men's restroom, one from the women's restroom, and one from the bar area. Samples were analyzed for VOCs via EPA Method TO-15. The levels for TCE and PCE, when inputted into the NYSDOH air guideline values Matrices A and Matrix B respectively, require mitigation regardless of the indoor air concentrations.

On December 28, 2017, during the heating season, PSG collected four (4) indoor air samples (IA-A through IA-D) from inside the 140 Stewart Avenue building, two (2) indoor air samples (IA-E and IA-F) from inside the 111 Gardner Avenue building, and an ambient air sample (AA-1) from the western side of the 140 Stewart Avenue building. Samples were collected in 6-liter Summa canisters over an 8-hour period. One indoor air sample was collected from each approximate quarter of the indoor area. Samples were analyzed for VOCs via the TO-15 method. Benzene was detected in all indoor air samples (IA-B through IA-F). However, during the time of sampling, numerous generators and construction machines were operating and running inside the 140 Stewart Avenue and 111 Gardner Avenue buildings.

On December 31, 2017, PSG collected four (4) additional indoor air samples (DIA-1 through DIA-4) from inside the 140 Stewart Avenue building, two (2) additional indoor air samples (DIA-5 and DIA-6) from inside the 111 Gardner Avenue building, and an additional ambient air sample (DAA) from the eastern side of the 140 Stewart Avenue building in the open courtyard area. Samples were collected in 6-liter Summa canisters over an 8-hour period. One indoor air sample was collected from each approximate quarter of the indoor area. Samples were analyzed for VOCs via the TO-15 method. No indoor air or ambient air samples had compounds detected above the NYSDOH air guideline values Matrices A and Matrix B respectively.

PSG Preliminary Interior Investigation

Between September 1, 2017, to September 9, 2017, PSG conducted a MIP screening within the 140 Stewart Avenue and 111 Gardner Avenue buildings. MIP allows for the real-time monitoring of soil and groundwater components with depth. A total of five individual detectors mounted on a single direct push drill rod connected to an on-site laboratory quality analytical system provide real time subsurface physical and chemical data. The detectors utilized for this investigation include electrical conductivity (EC), hydraulic profile (HPT), along with relative magnitude of contamination as detected by a PID, FID, and XSD. The preliminary MIP logs were used to determine the locations and depths best suited for follow up soil, groundwater, and soil gas sample collection, for further delineation of impacted subsurface media.

In addition, PSG advanced six (6) soil borings within the 140 Stewart Avenue building for the collection of soil and groundwater samples, and advanced shallow borings for the collection of soil gas samples. Soil and groundwater samples were analyzed for VOCs, SVOCs, and metals. Numerous VOCs, SVOCs, and metals were detected above the UUSCOs. Arsenic was detected above the CUSCO in soil sample F4-SOIL. PCE and TCE were detected above the AWQS in groundwater samples A1-DEEP and F4-DEEP. TCE was detected above the AWQS in groundwater sample B6-DEEP. Numerous VOCs, SVOCs, and metals were detected above the AWQS in groundwater samples B6, B6 (lab filtered) F4-GW, and F4-GW (lab filtered). Finally, soil gas sample results identified numerous VOCs above laboratory reporting limits in soil gas.

Between September 20, 2017, to September 21, 2017, PSG advanced three (3) soil borings within the 111 Gardner Avenue building for the collection of six soil samples and two groundwater samples, and advanced shallow borings for the collection of soil gas samples. Soil and groundwater samples were analyzed for VOCs, SVOCs and metals. Numerous metals were detected above the UUSCOs, CUSCOs, and Protection of Groundwater (PW) SCOs. Vinyl chloride was detected above the AWQS in groundwater sample I1. Numerous metals were detected above the AWQS in groundwater samples I1 and I1 (lab filtered). Soil gas sample results identified numerous VOCs above laboratory reporting limits in soil gas samples SG-G1 and SG-I2. 1,3-Butadiene was detected at a concentration of 7.17 ug/m^3. 1,1-dichloroethane (DCA) was detected at a

concentration of 215 ug/m^3. Chloroform was detected in soil gas samples SG-G1 at a concentration of 100 ug/m^3 and in SG-I2 at a concentration of 591 mg/m^3.

1.4.3.1 BCP Reports

The following environmental work plans and reports were prepared for the Site after the Site's entry into the BCP on October 30, 2017.

- *Exterior MIP Investigation Work Plan*, April 2019, prepared by PSG
- *Exterior MIP Investigation Report*, September 2020, prepared by PSG
- *Remedial Investigation Work Plan,* April 2019, prepared by PSG
- *Remedial Investigation Report,* March 2023, prepared by PSG

PSG Exterior MIP Investigation

Between May 4, 2019, and January 31, 2020, PSG completed a MIP investigation on the exterior portions of the Site to identify AOCs that could require additional investigation and sampling. MIP allows for the real-time monitoring of soil and groundwater components with depth. A total of 34 exterior MIP borings were advanced during this portion of the investigation. The detectors utilized for this investigation included EC, HPT and relative magnitude of contamination as detected by a PID, FID, and XSD. The PID, FID, and XSD were installed in series so that the gas stream was analyzed for soil conditions, including the presence of groundwater, soil permeability, relative concentration of VOCs, relative concentration of flammable compounds, and relative concentrations of halogenated compounds. The terminal depth of the MIP borings varied based on the depths that no XSD, PID, or FID readings were registered, boring refusal, or the equipment capacity which was approximately 98 ft. bgs.

The majority of all MIP samples indicated the absence of a shallow/surface source area for vertical chlorinated soil solvent migration but the potential presence of petroleum compounds between 5 to 7 feet bgs and between 13 to 36 feet bgs. AOC numbers 1, 2, 4, 5, 6, and 9 were identified as a result of these MIP results.

MIP-02, MIP-04, MIP-05, MIP-06, MIP-07, MIP-08, MIP-09, MIP-10, MIP-11, MIP-12, MIP-21, MIP-25, MIP-26, MIP-27, MIP-28, MIP-29, MIP-30, MIP-31, MIP-32, MIP-33, and

MIP-34 indicated the potential for methane accumulation between 4 and 50 feet bgs, with the highest levels recorded between 10 and 26 feet bgs. AOC-10 was identified as a result of these MIP results.

The data indicate surficial chlorinated impacts surrounding the MIP-06 location (AOC 7) beginning at 9 feet bgs with vertical migration to 26 feet bgs; however, it does not appear to be the cause of the deeper interval groundwater impact that has been observed at the Site as no significant smear zone or vertical migration path was identified. The potential presence of a shallow/surface soil area for vertical chlorinated solvent migration was identified in MIP-15 at 3 to 4 feet bgs. The potential presence of a mixed chlorinated solvent and petroleum compounds impact was identified in MIP-13, MIP-14, MIP-15, MIP-17, MIP-18, MIP-27, MIP-28, MIP-29, MIP-31, MIP-32, MIP-33 and MIP-34 between 5 to 6 feet bgs and 16 to 30 feet bgs. AOC numbers 3, 7, and 8 were identified as a result of these MIP results.

In addition, an apparent confining layer of organic material is present within the saturated zone at approximately 15 ft bgs, which is evidenced by higher FID response/methane accumulation observed across the Site. PID response indicated potential shallow hot spot areas (MIP-20, F4, and surrounding I-2); however, the vertical migration pathway does not appear to be complete.

Based on the MIP data, PSG divided the Site into ten AOCs, as depicted on **Figure 5.1.** A cross-sectional plan of the AOC MIP data is provided as **Figure 5.2**.

2.0 DESCRIPTION OF REMEDIAL INVESTIGATION FINDINGS

The Site was investigated in accordance with the scope of work presented in the NYSDEC-approved Remedial Investigation Work (RIWP) dated April 2, 2019. The RI was conducted between May 2021 and June 2021, with additional RI work in April 2022 and in June 2023. The RI was initially submitted to NYSDEC in November 2021. The RIR was resubmitted in September 2022 to address NYSDEC and NYSDOH comments issued January 18, 2022. The RIR was resubmitted again in March 2023 to address additional NYSDEC and NYSDOH comments issued February 3, 2023, and January 23, 2023, respectively. The NYSDEC approved the RIR via correspondence dated May 2, 2023. Approval of the RIR was contingent upon the collection of additional groundwater samples to assess whether the heavy metal impacted soil in the middle

portion of the Site (AOC-8) is a source of groundwater contamination and whether remediation of the heavy metal impacted soil is warranted. The results of this additional assessment are provided in Section 2.1.3 of this RAWP.

2.1 SUMMARY REMEDIAL INVESTIGATIONS PERFORMED

The scope of RI was developed based on previous investigations by GRS in 2016, MIP logs and 3-D MIP model, the approved RIWP, and subsequent conversations with NYSDEC and NYSDOH.

2.1.1 Remedial Investigation – 2021-2022

The 2021-2022 RI activities consisted of the following:

- 21 soil borings - The advancement of 21 soil borings focusing on specific AOCs, to confirm the MIP results and further delineate areas where impacted soils were identified. Select borings were advanced to 35 feet bgs or to refusal to field-observe for the presence of dense non-aqueous-phase liquid (DNAPL).
- 16 temporary well points - Groundwater sampling via temporary well points was conducted, focusing on specific AOCs identified during the MIP investigation. At select locations, groundwater samples were collected at multiple depth intervals to evaluate the potential for vertical migration of cVOCs in groundwater, and at offsite locations in the sidewalks east and northeast of the property to evaluate the potential for an off-site source in deeper intervals.
- 6 permanent monitoring wells – To augment the temporary groundwater sampling plan, four permanent shallow-interval monitoring wells were installed to correspond with higher shallow-zone MIP responses. In addition, two additional shallow-interval monitoring wells were installed in the sidewalks east and northeast of the Site to evaluate the potential for an offsite source of cVOCs in the shallow interval.
- 6 soil vapor points – Six soil vapor points were advanced, focusing the perimeter of the Site for evaluation the potential for offsite migration of VOCs and methane in soil vapor.

On April 7 and 8, 2022, PSG directed the advancement of four additional borings at AOC-7, denoted as 7-TW4 through 7-TW7, and collected sixteen additional groundwater samples. The groundwater samples were collected to provide additional vertical profiling data in order to evaluate whether vertical migration of VOCs has occurred in the vicinity of monitoring well MW-2, where the highest concentrations of PCE were identified during the RI.

Refer to **Table 3** for summary of all RI boring locations, sample depths, matrices, analytes, and samples numbers. RI sample locations are depicted on **Figure 3.**

2.1.2 Summary of RI Findings

Subsurface soils at the Site include non-native fill with bricks, concrete, gravel, metal, and wood to depths as great as 18 feet bgs, which are underlain by native silty sand, sand, and clay to depths of up to 35 feet bgs. A noncontinuous peat layer was identified in several of the soil borings at various depths ranging approximately between 13 and 25 feet. Groundwater at the Site is present at a depth of approximately 5 to 10 feet bgs and generally flows in an east to west direction. Newtown Creek is located approximately 1,190 feet west of the Site.

Sampling data suggest that cVOC soil hot spots in the vicinity of boring 7-B1 and 10-B6, where PCE concentrations of 2,200 mg/Kg and 200 mg/Kg, respectively, were identified, may be source areas with the potential to contribute to additional groundwater impacts. Based on the soil analytical data obtained during this RI and the previous investigations, the remaining VOC exceedances do not appear to have resulted in significant impacts to Site groundwater. Remedial action is warranted to address cVOC impacted soils identified in AOC-7 and AOC-10.

Sitewide historic fill-related impacts are also present in shallow soils. However, these exceedances do not appear to have had a significant impact on groundwater quality at the Site. Additionally, site soils are capped by the existing buildings and pavement.

Vertical groundwater profiling data collected by PSG in April 2022 identified increasing cVOC concentrations with depth in temporary well point 7-TW4. Remedial action is warranted to address cVOC impacted groundwater in AOC-7.

Subsurface investigations conducted at the Site between 2016 and 2021 also identified SVOCs, metals, dissolved metals, PCBs, PFOA, and PFOS in shallow zone groundwater samples, at concentration marginally above the AWQG. These exceedances are likely a result of urban fill material at the Site.

Benzene was identified in a soil vapor sample collected at the northwestern property boundary. In addition, cVOCs, including c1,2-DCE, PCE, and TCE, were identified in a soil vapor sample collected along the southern boundary in the vicinity of AOC-7. These findings are consistent with data identified during the previous AKRF, GCE, and PSG investigations. No sensitive receptors are present in close proximity to the elevated soil vapor concentrations identified at the Site, with the exception of potentially occupied commercial properties located across the unpaved railroad tracks. The reported concentrations of VOCs identified near the southern Site boundary represent a low risk, and PSG recommends further investigation of soil vapor following the completion of remedial activities at AOC-7 to determine if mitigation is warranted.

RI soil, groundwater, and soil vapor analytical data are summarized in **Tables 4 through 7. Figures 6.1 through 6.7** depict exceedances of VOCs, SVOCs, metals (total and dissolved), PCBs, pesticides, and emerging contaminants in subsurface media at the Site. **Figures 7.1 through 7.7** depict VOC isoconcentrations.

2.1.3 Pre-Design Investigation – 2023

Pursuant to the NYSDEC RIR conditional approval letter, dated May 2, 2023, PSG collected additional soil and groundwater samples on June 20, 2023, to assess whether the heavy metal impacted soil in the middle portion of the Site (AOC-8) is a source of groundwater contamination, and whether remediation of the heavy metal impacted soil is warranted. PSG also conducted additional delineation of cVOC impacted soils above the water table at AOC-7 and AOC-10 to attempt to determine the limits constituents of concern in soil at concentrations above the Protection of Groundwater (PGW) SCOs that will require removal.

<u>AOC-7 and AOC-10</u>

On June 20, 2023, Coastal Environmental Solutions, Inc. (Coastal), under the direction of PSG, advanced six (6) borings in the vicinity of RI boring 7-B1 and six (6) borings in the vicinity of RI boring 10-B6 using Geoprobe direct-push equipment. The borings were advanced to a depth of approximately 5 feet below the soil/groundwater interface, or to a maximum depth of 15 feet bgs. Continuous soil samples were collected from each boring at 5-foot intervals using a MacroCore sampler. Each soil sample was inspected for visual and olfactory evidence of contamination and field-screened for volatile organic vapors using a PID. Depending on soil recovery, up to three (3) soil samples were collected from each boring; specifically, one near-surface soil sample was collected from shallow soils (1-2 feet bgs), one sample was collected from intermediate soils (4-6 feet bgs), and one sample was collected from the 6-inch interval immediately above the soil/groundwater interface.

Soil samples collected were placed in a laboratory-supplied cooler on ice and delivered under proper chain of custody to an Environmental Laboratory Approval Program (ELAP)-certified laboratory for analysis for analysis of VOCs via EPA Method 8260.

The following VOCs were detected in soil samples above the regulatory criteria in AOC-7:

- PCE was identified in soil samples 7-B1W (4.5-5) and 7-B1WW (1-1.5) above the above the CUSCO. PCE was identified in soil samples 7-B1W (1.5-2), 7-B1WW (4-4.5), 7-B1E (4-4.5), 7-B1E (5.5-6), and 7-B1S (4-4.5) above the PGWSCO and UUSCO.
- TCE was identified in soil samples 7-B1W (4.5-5), 7-B1WW (1-1.5), 7-B1WW (4-4.5), 7-B1E (4-4.5), and 7-B1S (4-4.5) above the PGWSCO and UUSCO.
- Cis-1,2-dichloroethene was identified in soil samples 7-B1W (1.5-2), 7-B1W (4.5-5), 7-B1WW (1-1.5), 7-B1WW (4-4.5), 7-B1E (4-4.5), 7-B1E (5.5-6), 7-B1S (4-4.5), and 7-B1S (5.5-6) above the PGWSCO and UUSCO.
- Vinyl chloride was identified in soil samples 7-B1E (4-4.5), 7-B1E (5.5-6), and 7-B1S (5.5-6) above the PGWSCO and UUSCO.
- Trans-1,2-dichloroethene was identified in soil samples 7-B1W (1.5-2) and 7-B1WW (1-1.5) above the PGWSCO and UUSCO.
- 1,1,1-Trichloroethane (1,1,1-TCA) was identified in soil samples 7-B1W (4.5-5) and 7-B1WW (1-1.5) above the PGWSCO and UUSCO.

- 1,2-Dichlorobenzene was identified in soil sample 7-B1WW (4-4.5) above the PGWSCO and UUSCO.
- Benzene was identified in soil sample 7-B1E (5.5-6) above the PGWSCO and UUSCO.
- Acetone was identified in soil samples 7-B1W (6.5-7), 7-B1E (1.5-2), and 7-B1S (1.5-2) above the PGWSCO and UUSCO.
- Chloroform was identified in soil samples 7-B1W (4.5-5), 7-B1WW (1-1.5), and 7-B1E (4-4.5) above the PGWSCO and UUSCO.

The following VOCs were detected in soil samples above the regulatory criteria in AOC-10:

- PCE was identified in soil samples 10-B6W (4.5-5), 10-B6N (4.5-5), and 10-B6E (4.5-5) above the PGWSCO and UUSCO.
- TCE was identified in soil samples 10-B6W (4.5-5) and 10-B6N (4.5-5) above the PGWSCO and UUSCO.
- Cis-1,2-dichloroethene was identified in soil sample 10-B6W (4.5-5) above the PGWSCO and UUSCO.
- Vinyl chloride was identified in soil sample 10-B6W (7.5-8) above the PGWSCO and UUSCO.
- Acetone was identified in soil samples 10-B6W (1.5-2), 10-B6N (9.5-10), 10-B6E (9.5-10), and 10-B6S (9.5-10) above the PGWSCO and UUSCO.

Based on the soil analytical results for AOC-7 and AOC-10, the area of soil containing cVOC constituents of concern above the PGWSCOs is delineated to an approximate 660 sf area on the north, south, and west of RI boring 7-B1 and 330 sf around boring 10-B6. Complete delineation to the PGWSCOs east of boring 7-B1 and north of 10-B6 could not be achieved due to the presence of facility structures that limited access. Soil analytical results for AOC-7 and AOC-10 are summarized in **Table 4.** Sample locations and VOC exceedances in soil are depicted on **Figure 8**.

AOC-8

On June 20, 2023, Coastal under the direction of PSG, advanced seven (7) borings in the vicinity of RI boring 8-B1 using Geoprobe direct-push equipment. The borings were advanced to a depth of approximately 5 feet below the soil/groundwater interface, or to a maximum depth of 15 feet bgs. Continuous soil samples were collected from each boring at 5 foot intervals using a MacroCore sampler. Each soil sample was inspected for visual and olfactory evidence of

contamination and field-screened for volatile organic vapors using a PID. Depending on soil recovery, up to three (3) soil samples were collected from each boring; specifically, one near-surface soil sample was collected from shallow soils (1-2 feet bgs), one sample was collected from intermediate soils (4-6 feet bgs), and one sample was collected from the 6" interval immediately above the soil/groundwater interface.

Following the completion of soil sampling at each boring, a groundwater sample was collected from each boring using via the installation of temporary 1" monitoring wells, which were removed following collection of the sample.

Soil samples collected were be placed in a laboratory-supplied cooler on ice and delivered under proper chain of custody to an ELAP-certified laboratory for analysis for analysis of Target Compound List (TAL) metals by the EPA Method 6010A/7470A. The two (2) samples exhibiting the highest metals concentrations were additionally analyzed for Toxicity Characteristic Leaching Procedure (TCLP) metals. Groundwater samples collected were analyzed for total and dissolved TAL metals.

The following metals were detected in soil samples above the regulatory criteria:

- Arsenic was identified soil samples 8B-1N (5.0-5.5), 8B-1NN (1.5-2.0), 8B-1SS (4.5-5.0), 8B-1W (4.5-5.0), 8B-1W (6.5-7.0), 8B-1WW (4.5-5.0), and 8B-1WW (6.0-6.5) above the PGWSCO. Arsenic was identified in soil sample 8B-1SS (1.5-2.0) above the UUSCO.
- Barium was identified in soil samples 8B-1N (5.0-5.5) and 8B-1W (6.5-7.0) above the CUSCO.
- Cadmium was identified in soil sample 8B-1W (4.5-5.0) above the CUSCO. Cadmium was identified in soil sample 8B-1SS (4.5-5.0) above the UUSCO.
- Copper was identified in soil samples 8B-1N (5.0-5.5), 8B-1SS (4.5-5.0), 8B-1W (4.5-5.0), and 8B-1WW (4.5-5.0) above the CUSCO. Copper was identified in soil samples 8B-1NN (1.5-2.0), 8B-1NN (4.5-5.0), 8B-1NN (6.0-6.5), 8B-1E (6.0-6.5), 8B-1S (1.5-2.0), 8B-1S (6.5-7.0), 8B-1SS (1.5-2.0), 8B-1W (1.5-2.0), 8B-1W (6.5-7.0), 8B-1WW (1.0-1.5), and 8B-1WW (6.0-6.5) above the UUSCO.

- Lead was identified in soil samples 8B-1S (1.5-2.0), 8B-1W (4.5-5.0), and 8B-1WW (6.0-6.5) above the CUSCO. Lead was identified in soil samples 8B-1NN (1.5-2.0), 8B-1NN (4.5-5.0), 8B-1SS (4.5-5.0), and 8B-1W (6.5-7.0) above the PGWSCO. Lead was identified in soil samples 8B-1N (5.0-5.5), 8B-1NN (6.0-6.5), 8B-1E (6.0-6.5), 8B-1S (4.5-5.0), 8B-1S (6.5-7.0), 8B-1SS (1.5-2.0), 8B-1SS (6.5-7.0), 8B-1W (1.5-2.0), 8B-1WW (1.0-1.5), and 8B-1WW (4.5-5.0) above the UUSCO.
- Mercury was identified in soil samples 8B-1S (1.5-2.0), 8B-1S (6.5-7.0), 8B-1SS (4.5-5.0), 8B-1W (1.5-2.0), 8B-1W (4.5-5.0), 8B-1W (6.5-7.0), 8B-1WW (1.0-1.5), and 8B-1WW (4.5-5.0) above the CUSCO. Mercury was identified in soil samples 8B-1N (5.0-5.5), 8B-1NN (1.5-2.0), 8B-1NN (4.5-5.0), 8B-1E (6.0-6.5), 8B-1SS (6.5-7.0), and 8B-1WW (6.0-6.5) above the PGWSCO. Mercury was identified soil samples 8B-1NN (6.0-6.5) and 8B-1SS (1.5-2.0) above the UUSCO.
- Nickel was identified soil samples 8B-1SS (4.5-5.0), 8B-1W (4.5-5.0), 8B-1W (6.5-7.0), and 8B-1WW (1.0-1.5) above the UUSCO.
- Selenium and silver were identified in soil samples 8B-1W (4.5-5.0) above the PGWSCO.
- Zinc was identified in soil sample 8B-1W (4.5-5.0) above the PGWSCO. Zinc was identified in soil samples 8B-1N (5.0-5.5), 8B-1NN (1.5-2.0), 8B-1NN (4.5-5.0), 8B-1NN (6.0-6.5), 8B-1S (1.5-2.0), 8B-1S (4.5-5.0), 8B-1S (6.5-7.0), 8B-1SS (1.5-2.0), 8B-1SS (4.5-5.0), 8B-1SS (6.5-7.0), 8B-1W (1.5-2.0), 8B-1W (6.5-7.0), 8B-1WW (1.0-1.5), 8B-1WW (4.5-5.0), and 8B-1WW (6.0-6.5) above the UUSCO.

The following metals were detected in groundwater samples above the regulatory criteria:

- Antimony was identified in groundwater samples 8B-1N-GW, 8B-1NN-GW, 8B-1E-GW, 8B-1S-GW, 8B-1SS-GW, 8B-1W-GW, and 8B-1WW-GW above the AWQS.
- Dissolved antimony was identified in groundwater samples 8B-1N-GW, 8B-1NN-GW, 8B-1E-GW, 8B-1S-GW, 8B-1SS-GW, 8B-1W-GW, and 8B-1WW-GW above the AWQS.
- Arsenic was identified in groundwater samples 8B-1NN-GW, 8B-1E-GW, 8B-1S-GW, 8B-1SS-GW, and 8B-1WW-GW above the AWQS.
- Dissolved arsenic was identified in groundwater sample 8B-1WW-GW above the AWQS.
- Barium was identified in groundwater sample 8B-1NN-GW above the AWQS.

- Chromium was identified in groundwater samples 8B-1N-GW, 8B-1NN-GW, 8B-1E-GW, 8B-1S-GW, and 8B-1SS-GW above the AWQS.
- Copper was identified in groundwater samples 8B-1N-GW, 8B-1NN-GW, 8B-1S-GW, and 8B-1SS-GW above the AWQS.
- Iron, lead, manganese, mercury, and sodium were identified in groundwater samples 8B-1N-GW, 8B-1NN-GW, 8B-1E-GW, 8B-1S-GW, 8B-1SS-GW, 8B-1W-GW, and 8B-1WW-GW above the AWQS.
- Dissolved iron was identified in groundwater samples 8B-1N-GW and 8B-1W-GW above the AWQS. Dissolved manganese was identified in groundwater samples 8B-1N-GW, 8B-1E-GW, 8B-1S-GW, 8B-1SS-GW, 8B-1W-GW, and 8B-1WW-GW above the AWQS. Dissolved sodium was identified in groundwater samples 8B-1N-GW, 8B-1NN-GW, 8B-1E-GW, 8B-1S-GW, 8B-1SS-GW, 8B-1W-GW, and 8B-1WW-GW above the AWQS.
- Nickel was identified in groundwater sample 8B-1NN-GW above the AWQS.
- Thallium was identified in groundwater sample 8B-1NN-GW above the Ambient Water Quality Guidance Value (AWQGV).

PSG selected two samples [8B-1W (4.5-5.0) and 8B-1W (6.5-7.0)], which indicated the highest metal concentrations, to run for TCLP metals. No detectable TCLP metals concentrations were identified.

Based on the soil analytical results for AOC-8, various metals, including arsenic, lead, mercury, selenium, and zinc, are present at concentrations above the PGWSCOs. The metals are likely the result of urban fill and historical commercial/industrial activities at the Site. The distribution of metals was determined to be heterogeneous both aerially and vertically, and no distinct source of metals was identified. TCLP results for select soil samples indicated no detectable concentrations, which indicates that the metals are immobile. Groundwater analytical results for total metals identified similar metals at concentrations above the AWQS; however, no significant dissolved metals concentrations were identified, which suggests that the total metals results were biased high due to suspended sediment in the samples. Based on the soil and groundwater analytical results, remediation of metals impacted soils at AOC-8 is not recommended.

Soil and groundwater analytical results for AOC-8 are summarized in **Tables 4** and **5**, respectively. Sampling locations and Metals exceedances in soil are depicted on **Figure 9.1**. Total metal exceedances in groundwater are depicted on **Figures 9.2**. Dissolved metals exceedances in groundwater are depicted on **Figure 9.3**.

2.1.3.1 Data Usability Summary Reports Discussion

Data validation for the June 20, 2023, sampling event was completed by Mr. Donald Anné of Alpha Geoscience. The data package contained the documentation as required by NYSDEC Analytical Services Protocol (ASP). The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data pack contained the results of volatile analyses for 31 soil samples; the results of TAL metal analyses for 18 soil samples and 1 field duplicate; the results of TCLP metal analyses for 2 soil samples; and the results of total and dissolved TAL metal analyses for 7 ground water samples.

The overall performances of the analyses are acceptable. Alpha Analytical Laboratories did fulfill the requirements of the analytical methods. The data are mostly acceptable with some issues that are identified in the accompanying data validation reviews. The following data were qualified:

- The positive volatile results for 4 compounds were qualified as "estimated, biased high" (J+) for sample 7-B1W (1.5-2) because 1 of 4 surrogate recoveries was above control limits for the sample.
- The positive volatile results for 16 compounds were qualified as "estimated, biased high" (J+) for sample 7-B1W (1.5-2)RE2 because 2 of 4 surrogate recoveries were above control limits for the sample.
- The positive volatile results for 27 compounds were qualified as "estimated, biased high" (J+) for sample 7-B1E (5.5-6) because 1 of 4 surrogate recoveries was above control limits for the sample.
- The positive volatile results for 22 compounds were qualified as "estimated, biased high" (J+) for sample 7-B1S (5.5-6) because 1 of 4 surrogate recoveries was above control limits for the sample.
- The positive volatile results for 23 compounds were qualified as "estimated, biased high" (J+) for sample 7-B1S (5.5-6)RE because 2 of 4 surrogate recoveries were above control limits for the sample.

- The “not detected” volatile results for 14 compounds were qualified as “estimated” (UJ) for sample 7-B1W (1.5-2) because the areas for the internal standard used to quantitate these compounds was below control limits, but not below 25%.
- The “not detected” volatile results for 26 compounds were qualified as “rejected, unusable” (R) for sample 7-B1W (1.5-2) because the area for the internal standard used to quantitate these compounds was below control limits and below 25%.
- The volatile results for tetrachloroethene and cis-1,2-dichloroethene for sample 7-B1W (1.5-2)RE were quantitated using data that were extrapolated beyond the highest calibration standard and flagged “E” by the laboratory. The results for compounds marked “E” were qualified as estimated (J).
- The volatile results for tetrachloroethene for samples 7-B1W (4.5-5), 7-B1WW (1-1.5), 10-B6N (1.5-2), and 10-B6N (4.5-5) were quantitated using data that were extrapolated beyond the highest calibration standard and flagged “E” by the laboratory. The results for tetrachloroethene marked “E” were qualified as estimated (J).
- The “not detected” volatile results for 1,1,2,2-tetrachloroethane, naphthalene, and 1,2,4,5-tetramethylbenzene were qualified as “estimated” (UJ) for samples 7-B1W (1.5-2)RE2 and 7-B1W (4.5-5) because 1 or 2 percent recoveries for these compounds were below QC limits, but not below 10% in the associated soil LCS/LCSD.
- The “not detected” volatile results for 1,1,2,2-tetrachloroethane and 1,2,4,5-tetramethylbenzene were qualified as “estimated” (UJ) for samples 7-B1W (6.5-7), 7-B1S (4-4.5), 10-B6W (4.5-5), and 10-B6W (7.5-8) because 1 of 2 percent recoveries for these compounds were below QC limits, but not below 10% in the associated soil LCS/LCSDs.
- The “not detected” volatile results for 1,1,2,2-tetrachloroethane were qualified as “estimated” (UJ) for the following samples because 1 or 2 percent recoveries for 1,1,2,2-tetrachloroethane were below QC limits, but not below 10% in the associated soil LCS/LCSDs.
    - 7-B1E (1.5-2), 7-B1E (5.5-6), 7-B1N (1.5-2), 7-B1S (1.5-2), 7-B1S (5.5-6), 7-B1S (5.5-6)RE, 10-B6W (1.5-2)
- The positive volatile results for 1,2,4,5-tetramethylbenzene were qualified as “estimated, biased low” (J-) for samples 7-B1E (1.5-2), 7-B1N (1.5-2), 7-B1S (1.5-2), and 10-B6W (1.5-2) because 1 of 2 percent recoveries for 1,2,4,5-tetramethylbenzene were below QC limits, but not below 10% in the associated soil LCS/LCSDs.
- The “not detected” volatile results for vinyl acetate were qualified as “estimated” (UJ) for samples 7-B1WW (4-4.5), 7-B1WW (4.5-5), 7-B1SS (5-5.5), 10-B6WW (4.5-5), and

10-B6EE (1.5-2) because 1 of 2 percent recoveries for vinyl acetate was below QC limits, but not below 10% in the associated soil LCS/LCSDs.

- The positive total metal results for arsenic were qualified as estimated, biased high (J+) for all 17 soil samples and the field duplicate because 2 of 2 percent recoveries for arsenic were above control limits in the associated soil MS/MSD sample.
- The positive metal results for antimony were qualified as estimated, biased high (J+) for all 17 soil samples and the field duplicate because 1 of 2 percent recoveries for antimony was above control limits in the associated soil MS/MSD sample.
- The positive metal results for barium and chromium were qualified as estimated, biased low (J-) for all 17 soil samples and the field duplicate because 1 of 2 percent recoveries for barium and chromium were below control limits, but not below 10% in the associated soil MS/MSD sample.
- The positive metal results for mercury were qualified as estimated, biased high (J+) for the following samples because the percent recovery for mercury was above the control limits in the associated soil spike sample.
    - 8B-1NN (1.5-2.0) 8B-1NN (4.5-5.0) 8B-1NN (6.0-6.5) 8B-1SS (1.5-2.0) 8B-1SS (6.5-7.0) 8B-1WW (1.0-1.5) 8B-1WW (4.5-5.0) 8B-1WW (6.0-6.5)
- The positive metal results for 11 metals were qualified as estimated (J) in samples 8B-1W (6.5-7.0) and 8B-1W (6.5-7.0) DUP because the relative percent differences for these 11 metals were above the allowable maximum in the soil field duplicate pair 8B-1W (6.5-7.0)/8B-1W (6.5-7.0) DUP.
- The positive dissolved metal result for mercury was qualified as estimated (J) for sample 8B-1NN-GW because the relative percent difference for mercury was above the allowable maximum in the associated aqueous dissolved duplicate sample.
- The positive total metal results for magnesium were qualified as estimated, biased low (J) for samples 8B-1NN-GW, 8B-1SS-GW, and 8B-1WW-GW because 1 of 2 percent recoveries for magnesium was below control limits, but not below 30% in the associated aqueous batch total MS/MSD sample.
- The positive total metal results for calcium, potassium, and sodium were qualified as estimated (J) for all 7 ground water samples because %Ds for calcium, potassium, and sodium were above the allowable maximum in the associated aqueous batch total serial dilution sample and results were above the RLs.
- The positive total metal results for magnesium were qualified as estimated (J) for samples 8B-1N-GW, 8B-1E-GW, 8B-1S-GW, and 8B-1W-GW because %D for magnesium was

above the allowable maximum in the associated aqueous batch total serial dilution sample and results were above the RLs.

- The positive dissolved metal result for potassium was qualified as "estimated" (J) in sample 8B-1SS-GW because the dissolved concentration was greater than the total concentrations plus 10%.
- The positive dissolved metal result for sodium was qualified as "estimated" (J) in sample 8B-1E-GW because the dissolved concentration was greater than the total concentrations plus 10%.

All data that are not qualified rejected, unusable (R) are considered usable with estimated (J, J-, J+, or UJ) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.

A copy of the Data Usability Summary Report (DUSR) is included as **Appendix B**.

2.2 SIGNIFICANT THREAT

The NYSDEC and NYSDOH have determined that this Site does not pose a significant threat to human health and the environment. Notice of that determination has been provided for public review. A copy of the notice is included in **Appendix C**.

2.3 GEOLOGICAL CONDITIONS

Based on a review of the United States Geological Survey (USGS) Brooklyn, New York, 2016 Quadrangle topographic map, the Site is situated at an elevation approximately 14-17 feet above mean sea level, and the local topography is sloping gently to the west/southwest.

The Site is situated within the Atlantic Coastal Plain Physiographic Province of the State of New York. According to the New York State Geological Survey (NYSGS), the Atlantic Coastal Plain Province is an extensive plain of marine sands, clays, gravels, and marls that are seaward-sloping. Long Island is underlain by a mass of wedge-shaped unconsolidated geological deposits that overlie southward-sloping consolidated bedrock. According to the USGS, the bedrock underlying the Site consists of the Quaternary age Glacial and Alluvial Deposits.

Subsurface soils at the Site include non-native fill with bricks, concrete, gravel, metal, and wood to depths as great as 18 feet bgs, which are underlain by native silty sand, sand, and clay to depths of up to 35 feet bgs. A noncontinuous peat layer was identified in several of the soil borings at various depths ranging approximately between 13 and 25 feet.

Groundwater at the Site is present at a depth of approximately 5 to 10 feet bgs and generally flows in an east to west direction based on measurements collected for the monitoring wells in February 2022. Newtown Creek is located approximately 1,190 feet west of the Site. Geologic sections are shown in **Figures 7.4 through 7.7.** A groundwater flow map is shown in **Figure 6.1.**

2.4 CONTAMINATION CONDITIONS

2.4.1 Conceptual Model of Site Contamination

A conceptual site model has been developed based on the findings of the site subsurface investigations. The purpose of the conceptual site model is to develop a simplified framework for understanding the distribution of impacted materials, potential migration pathways, and potentially complete exposure pathways, as discussed below.

2.4.2 Description of Areas of Concern

Based on the MIP data, PSG identified ten AOCs, which were the focus of the RI. The AOCs are listed as follows:

- **AOC-1 PID RESPONSE AREA** (approximately 1,250 square feet);
- **AOC-2 PID RESPONSE AREA** (approximately 3,750 square feet);
- **AOC-3 XSD RESPONSE AREA** (approximately 100 square feet);
- **AOC-4 PID RESPONSE AREA** (approximately 1,250 square feet);
- **AOC-5 PID RESPONSE AREA** (approximately 100 square feet);
- **AOC-6 PID RESPONSE AREA** (approximately 625 square feet);
- **AOC-7 XSD RESPONSE AREA** (approximately 1,250 square feet);
- **AOC-8 XSD RESPONSE AREA** (approximately 50 square feet);

- **AOC-9 PID/FID RESPONSE AREA** (approximately 5,000 square feet); and
- **AOC-10 FID RESPONSE AREA** (approximately 51,000 square feet)

Based on the MIP PID data, AOC numbers 1, 2, 4, 5, 6, and 9 were identified as discreet, non-contiguous areas with potential petroleum compound impacts. Generally, these areas appear to be accumulation areas contained within more porous, larger grained sediments, and not the result of surface discharges. With the exception of AOC-2, the PID responses begin at approximately five feet below the surface and do not extend more than 15 feet vertically. AOC-2 PID responses appear to be related to an offsite source migrating toward the west and Stewart Avenue.

AOC numbers 3, 7, and 8 have been identified as discreet, non-contiguous areas with potential chlorinated and petroleum compound impacts based upon XSD response data. These AOCs appear to be more limited in horizontal and vertical extent than the PID-related AOCs.

AOC-10 has been identified as a potential methane accumulation, which appears to be contained in a coarse layer of sediments, possibly a historical stream channel. This AOC is generally situated in a discreet bedding plane between 10 and 20 feet beneath the surface across the majority of the Site.

2.4.3 Identification of Standards, Criteria and Guidance

The following SCGs are applicable to the project and will be used to determine whether the Remedial Action Objectives (RAOs) have been met:

- Soil – 6 New York Codes, Rules, and Regulations (NYCRR) Part 375 Soil Cleanup Objectives (December 2006); 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes; 6 NYCRR Part 376 - Land Disposal Restrictions; and 6 NYCRR Part 360 - Solid Waste Management Facilities.
- Groundwater – 6 NYCRR Parts 700-706 - Water Quality Standards (June 1998), and TOGS 1.1.1 AWQSGV and Groundwater Effluent Limitations.

In addition, the following SCGs are applicable to the remedial program at the Site:

- NYSDEC DER-10 – Technical Guidance for Site Investigation and Remediation (May 2010);
- NYSDOH Generic Community Air Monitoring Plan (CAMP);
- NYSDEC DER-23 – Citizen Participation Handbook for Remedial Programs (January 2010);
- 6 NYCRR Part 372 – Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities (November 1998);
- 6 NYCRR Subpart 374-1 – Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities (November 1998);
- 6 NYCRR Subpart 374-3 – Standards for Universal Waste (November 1998);
- 6 NYCRR Part 375 – Environmental Remediation Programs (December 2006);
- 29 CFR Part 1910.120 – Hazardous Waste Operations and Emergency Response;
- 40 CFR Part 144 – Underground Injection Control Program;

- DAR-1 (formerly Air Guide 1) - Guidelines for the Control of Toxic Ambient Air Contaminants (1997);
- CP-43 – Commissioner Policy on Groundwater Monitoring Well Decommissioning (December 2009); and
- NYSDEC DER-31 – Green Remediation (2010)

Additional regulations and guidance may be applicable, relevant, and appropriate for the remedial actions and will be complied with during implementation of the remedial program. However, the list above is intended to represent the principal SCGs that will be considered in evaluating the remedial alternatives for the Site.

2.4.4 Soil/Fill Contamination

A total of 33 soil samples were collected during the RI from 10 identified AOCs for laboratory analysis of target compound list (TCL) VOCs, SVOCs, and pesticides/PCBs, total analyte list (TAL) metals, TCLP metals, and emerging contaminants. In addition, 47 soil samples were collected in June 2023 for further delineation of VOC-impacted soils at AOC-7 and AOC-10 and metals impacted soils at AOC-8. RI soil analytical results are summarized in **Table 4**. A Sample Location Plan is provided as **Figure 3**. June 2023 sample locations for AOCs 7 and 10 are shown on **Figure 8**. June 2023 sample locations for AOC-8 are shown on **Figures 9.1 through 9.3**.

cVOC constituents above UUSCOs were identified in the central and eastern portions of the Site based on the 2016, 2017, 2020, and 2021 investigations conducted at the Site. Based on the findings of the RI, these exceedances appear to be confined to AOCs 6, 7, and 8, between the 140 Stewart Avenue and 111 Gardner Avenue buildings, and at AOC-10, immediately south of the 111 Gardner building to depths of up to 14.5 feet bgs. The highest cVOC concentrations were identified in the vicinity of the former liquid bleach manufacturing building (AOC-7) at up to three orders of magnitude greater than surrounding areas and above CUSCOs. These data are consistent with results identified during the previous AKRF, GCE, and PSG investigations. No residual product or evidence of DNAPL was observed during advancement of the borings. However, vertical profiling of groundwater conducted by PSG at AOC 7 in April 2022 identified increasing cVOC concentrations in groundwater to a depth of at least 70 feet bgs in temporary well point 7-TW4, which are one to two orders of magnitude greater than the concentrations detected at this depth interval in upgradient and downgradient locations. These data suggest that a cVOC soil hot spot in the vicinity of boring 7-B1, where a PCE concentration of 2,200 mg/Kg was identified, may be a source area with the potential to contribute to additional groundwater impacts in this area of the Site. Based on the soil analytical data obtained during this RI and the previous investigations, the remaining VOC exceedances do not appear to have resulted in significant impacts to Site groundwater.

Sitewide historic fill-related impacts are also present in shallow soils. Subsurface investigations conducted at the Site between 2016 and 2021 have identified exceedances of SVOCs, metals, pesticides, and PCBs above UUSCOs throughout the Site. In addition,

benzo(a)pyrene, benzo(b)fluoranthene, arsenic, copper, lead, and mercury were identified above RRUSCOs and CUSCOs within the historic fill layer during the 2021 investigation. Based on TCLP soil analytical results and groundwater analytical results for dissolved metals, these exceedances are not a source of groundwater contamination.

2.4.4.1 Summary of Soil/Fill Data

Based on the June 2023 soil analytical results for AOC-7, the area of soil containing cVOC constituents of concern above the PGWSCOs is delineated to an approximate 660 sf area on the north, south, and west of RI boring 7-B1, and 330 sf to the east, west, and south of boring 10-B6. Complete delineation to the PGWSCOs east of boring 7-B1 and north of boring 10-B6 could not be achieved due to the presence of facility structures that limited access. Based on the soil analytical results for AOC-8, various metals, including arsenic, lead, mercury, selenium, and zinc, are present at concentrations above the PGWSCOs. The distribution of metals was determined to be heterogeneous both aerially and vertically, and no distinct source of metals was identified. TCLP results for select soil samples indicated no detectable concentrations, which indicates the metals are immobile, and analytical results for dissolved metals did not indicate significant concentrations of metals of concern.

AOC-1 Soil Contamination

PSG advanced two borings in AOC-1 (1-B1 and 1-B2) in the vicinity of a former 550-gallon underground storage tank (UST). At soil boring 1-B1, soil samples were collected from 7.5-8.5 and 24.5-25.0 feet bgs. At soil boring 1-B2, one sample was collected from 7.5-8.5 feet bgs.

Soil sample 1-B1(7.5-8.5) was analyzed for the full Total Compound List (TCL)/ TAL analytes including VOCs, SVOCs, TAL metals, pesticides, PCBs, and emerging contaminants. Soil sample 1-B1(24.5-25.0) was analyzed for VOCs and soil sample 1-B2(7.5-8.5) was analyzed for VOCs and SVOCs.

The VOC acetone was reported above the UUSCO in soil sample 1-B1(24.5-25). However, this result may be attributed to laboratory contamination. PAHs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene,

and indeno(1,2,3-cd)pyrene were reported above the UUSCO in soil samples collected from 7.5-8.5 feet bgs. Benzo(a)pyrene was also found in one sample above the CUSCO. Copper and zinc were reported above the UUSCO in a soil sample collected from 7.5-8.5 feet bgs. Arsenic, lead, and mercury were reported above the UUSCOs in soil samples collected from 7.5-8.5 feet bgs. Arsenic also exceeded the CUSCO in one soil sample. No pesticides or PCBs were reported above the UUSCOs.

AOC-2 Soil Contamination

PSG advanced two borings in AOC-2 (2-B1 and 2-B2). Soil borings 2-B1 and 2-B2 were advanced in the 140 Stewart Avenue building in areas where elevated MIP responses were observed. At boring 2-B1, soil samples were collected from 7.5-8.0 and 24.5-25.0 feet bgs. At soil boring 2-B2, one sample was collected from 9.5-10.0 feet bgs. Soil samples 2-B1(7.5-8.0) and 2-B2(9.5-10.0) were analyzed for VOCs and SVOCs. Soil sample 2-B1(24.5-25) was analyzed for VOCs.

No VOCs were reported above the UUSCOs. SVOC benzo(a)pyrene was reported above the UUSCO and CUSCO in soil sample 2-B1(7.5-8), and indeno(1,2,3-cd)pyrene was reported above the UUSCO. No soil samples from this AOC were analyzed for metals, pesticides, or PCBs.

AOC-3 Soil Contamination

PSG advanced one boring in AOC-3 (3-B1). Soil boring 3-B1 was advanced in the 140 Stewart Avenue building in areas of elevated MIP detection (MIP-F4). At soil boring 3-B1, soil samples were collected from 7.5-8.0 and 17.5-18.0 feet bgs. Soil sample 3-B1(7.5-8) was analyzed for the full TCL/TAL analytes including VOCs, SVOCs, TAL metals, pesticides, PCBs, and emerging contaminants. Soil sample 3-B1(17.5-18) was analyzed for VOCs.

Acetone and xylenes, and metals, lead and mercury, were reported above the UUSCOs in soil sample 3-B1(17.5-18). No SVOCs, pesticides, or PCBs were reported above the UUSCOs.

AOC-4 Soil Contamination

PSG advanced two borings in AOC-4 (4-B1 and 4-B2) in the vicinity of a dry well. At soil boring 4-B1, soil samples were collected from 6.5-7.0 and 24.0-24.5 feet bgs. At soil boring 4-B2,

one sample was collected from 6.5-7.0 feet bgs. Soil sample 4-B1(6.5-7) was analyzed for full TCL/TAL analytes including VOCs, SVOCs, TAL metals, pesticides, PCBs, and ECs. Soil sample 4-B1(24-24.5) was analyzed for VOCs and soil sample 4-B2(6.5-7) was analyzed for VOCs and SVOCs.

Acetone was reported above the UUSCO in soil sample 4-B1(24-24.5) and soil sample 4-B2(6.5-7). SVOCs chrysene and indeno(1,2,3-cd)pyrene were reported above the UUSCOs in soil sample 4-B2(6.5-7). Benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were reported above the UUSCOs in soil sample 4-B2(6.5-7), and benzo(a)pyrene additionally reported above the CUSCO. Metals copper, lead, mercury, and zinc were reported above the UUSCOs in soil sample 4-B1(6.5-7). No pesticides or PCBs were reported above the UUSCOs.

AOC-5 Soil Contamination

PSG advanced one boring in AOC-5 (5-B1). Soil boring 5-B1 was advanced in the vicinity of MIP-25. At soil boring 5-B1, one soil sample was collected from 8.5-9.0 feet bgs. Soil sample 5-B1(8.5-9.0) was analyzed for the VOCs and SVOCs.

Acetone was reported above the UUSCO in soil sample 5-B1(8.5-9). No SVOCs were reported above the UUSCOs. No samples were analyzed for metals, pesticides, or PCBs.

AOC-6 Soil Contamination

PSG advanced one boring in AOC-6 (6-B1) in the vicinity of MIP-09. At soil boring 6-B1, one soil sample was collected from 5.5-6.0 feet bgs. The soil sample 6-B1(5.5-6.0) was analyzed for the VOCs and SVOCs.

PCE, TCE, c1,2-DCE, vinyl chloride, and 2-butanone were reported above the UUSCOs in soil sample 6-B1(5.5-6). No SVOCs were reported above the UUSCOs. No samples were analyzed for metals, pesticides, or PCBs at AOC-5.

AOC-7 Soil Contamination

PSG advanced four borings in AOC-7 (7-B1, 7-B2, 7 -B3, and 7-B4) during the RI. Soil borings 7-B1 and 7-B2 were advanced in the vicinity of MIP-06, soil boring 7-B3 was advanced

in the vicinity of MIP-22, and soil boring 7-B4 was advanced in the vicinity of MIP-01. At soil boring 7-B1, soil samples were collected from 9.0-10.0 and 27.0-27.5 feet bgs. At soil boring 7-B2, soil samples were collected from 6.5-7.0 and 14.0-14.5 feet bgs. At soil boring 7-B3, one sample was collected from 10.5-11.5 feet bgs. At soil boring 7-B4, one sample was collected from 6.0-6.5 feet bgs. Soil samples 7-B1(9-10.0) and 7-B2(6.5-7.0) were analyzed for the full TCL/TAL list including VOCs, SVOCs, TAL metals, pesticides, PCBs, and emerging contaminants. Soil samples 7-B3(10.5-11.5) and 7-B4(6-6.5) were analyzed for VOCs and SVOCs. Soil samples 7-B1(27-27.5) and 7-B2(14-14.5) were analyzed for VOCs.

SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene were reported above the UUSCOs in soil sample 7-B1(9-10). Benzo(a)pyrene was also reported above the CUSCO. Metals copper, mercury, and zinc were reported above the UUSCOs in soil sample 7-B1(9-10). Pesticides 4,4'-DDD and 4,4'-DDE were reported above the UUSCO in soil sample 7-B1(9-10). 4,4'-DDT was reported above the UUSCO in soil sample 7-B2(6.5-7). No PCBs were reported above the UUSCOs.

In June 2023, PSG advanced six (6) soil borings in ACO-7 to further delineate cVOCs around soil boring 7-B1. Soil samples were analyzed for VOCs.

Cis 1,2-DCE, toluene, and 1,2,4-trimethylbenzene were reported above the UUSCO in soil sample 7-B1(9-10). Cis 1,2-DCE was reported above the UUSCO in soil samples 7-B1W (1.5-2), 7-B1W (4.5-5), 7-B1WW (1-1.5), 7-B1WW (4-4.5), 7-B1E (4-4.5), 7-B1E (5.5-6), 7-B1S (4-4.5), and 7-B1S (5.5-6). Vinyl chloride was reported above the UUSCO in soil samples 7-B3(10.5-11.5), 7-B1E(4-4.5), 7-B1E(5.5-6), and 7-B1S(5.5-6). Naphthalene, acetone, and 2-butanone were reported above the UUSCO in soil sample 7-B2(14-14.5). Acetone was reported above the UUSCO in soil samples 7-B1W(6.5-7), 7-B1E(1.5-2), and 7-B1S(1.5-2). Chloroform was reported above the UUSCO in soil samples 7-B1W(4.5-5), 7-B1WW(1-1.5), and 7-B1E(4-4.5). PCE was also reported above the CUSCO in soil samples 7-B1(9-10), 7-B1W (4.5-5), and 7-B1WW(1-1.5). TCE was reported above the UUSCO in soil samples 7-B1W(4.5-5), 7-B1WW(1-1.5), 7-B1WW(4-4.5), 7-B1E(4-4.5), and 7-B1S(4-4.5). PCE was reported above the UUSCO in soil samples 7-B1W(1.5-2), 7-B1WW(4-4.5), 7-B1E(4-4.5), 7-B1E(5.5-6), and 7-B1S(4-4.5). 1,1,1-

TCA was reported above the UUSCO in soil samples 7-B1W(4.5-5) and 7-B1WW(1-1.5). 1,2-Dichlorobenzene was reported above the UUSCO in soil sample 7-B1E(5.5-6). Benzene was reported above the UUSCO in soil sample 7-B1WW(4-4.5). Trans-1,2-dichloroethene was detected above the UUSCO in soil samples 7-B1W(4.5-5) and 7-B1WW(1-1.5).

AOC-8 Soil Contamination

PSG advanced one boring in AOC-8 (8-B1) in the vicinity of MIP-04 during the RI. Soil samples were collected from 2.0-3.0, 7.5-8.0, and 14.0-15.0 feet bgs. Soil sample 8-B1(2-3) was analyzed for full TCL/TAL analytes including VOCs, SVOCs, TAL metals, pesticides, PCBs, and emerging contaminants. Soil sample 8-B1(14-15) was analyzed for VOCs, SVOCs, and TAL metals. Soil sample 8-B1(7.5-8) was analyzed for VOCs and SVOCs.

PCE and 2-butanone were reported above the UUSCOs in soil sample 8-B1(2-3). Acetone was reported above the UUSCO in soil sample 8-B1(14-15). SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were reported above the UUSCOs in soil sample 8-B1(14-15). Benzo(a)pyrene was reported above the CUSCO. Metals arsenic, copper, lead, mercury, nickel, and zinc were reported above the UUSCOs in soil sample 8-B1(14-15) at a concentration of 91.8 mg/Kg. Arsenic and copper were reported above the CUSCOs. Pesticides 4,4'-DDT was reported above the UUSCO in soil sample 8-B1(2-3). No PCBs were reported above the UUSCOs.

In June 2023, PSG advanced seven (7) soil borings in ACO-8 to further delineate metals-impacted soils around soil boring 8-B1. Soil samples were analyzed for TAL metals.

Arsenic was detected above the UUSCO in soil sample 8B-1SS (1.5-2.0). Arsenic was detected above the CUSCO in soil samples 8B-1N (5.0-5.5), 8B-1NN (1.5-2.0), 8B-1SS (4.5-5.0), 8B-1W (4.5-5.0), 8B-1W (6.5-7.0), 8B-1WW (4.5-5.0), and 8B-1WW (6.0-6.5). Barium was detected above the CUSCO in soil samples 8B-1N (5.0-5.5) and 8B-1W (6.5-7.0). Cadmium was detected above the UUSCO in soil sample 8B-1SS (4.5-5.0); and above the CUSCO in soil sample 8B-1W (4.5-5.0). Copper was detected above the UUSCO in soil samples 8B-1NN (1.5-2.0), 8B-1NN (4.5-5.0), 8B-1NN (6.0-6.5), 8B-1E (6.0-6.5), 8B-1S (1.5-2.0), 8B-1S (6.5-7.0), 8B-1SS (1.5-2.0), 8B-1W (1.5-2.0), 8B-1W (6.5-7.0), 8B-1WW (1.0-1.5), and 8B-1WW (6.0-6.5). Copper was

detected above the CUSCO in soil samples 8B-1N (5.0-5.5), 8B-1SS (4.5-5.0), 8B-1W (4.5-5.0), and 8B-1WW (4.5-5.0). Lead was detected above the UUSCO in soil samples 8B-1N (5.0-5.5), 8B-1NN (1.5-2.0), 8B-1NN (4.5-5.0), 8B-1NN (6.0-6.5), 8B-1S (4.5-5.0), 8B-1S (6.5-7.0), 8B-1SS (1.5-2.0), 8B-1SS (4.5-5.0), 8B-1SS (6.5-7.0), 8B-1W (1.5-2.0), 8B-1W (6.5-7.0), 8B-1WW (1.0-1.5), and 8B-1WW (4.5-5.0). Lead was detected above the CUSCO in soil samples 8B-1S (1.5-2.0), 8B-1W (4.5-5.0), and 8B-1WW (6.0-6.5). Mercury was detected above the UUSCO in soil samples 8B-1N (5.0-5.5), 8B-1NN (1.5-2.0), 8B-1NN (4.5-5.0), 8B-1NN (6.0-6.5), 8B-1E (6.0-6.5), 8B-1SS (1.5-2.0), 8B-1SS (6.5-7.0), and 8B-1WW (6.0-6.5). Mercury was detected above the CUSCO in soil samples 8B-1S (1.5-2.0), 8B-1S (6.5-7.0), 8B-1SS (4.5-5.0), 8B-1W (1.5-2.0), 8B-1W (4.5-5.0), 8B-1W (6.5-7.0), 8B-1WW (1.0-1.5), and 8B-1WW (4.5-5.0). Nickel was detected above the UUSCO in soil samples 8B-1SS (4.5-5.0), 8B-1W (4.5-5.0), 8B-1W (6.5-7.0), and 8B-1WW (1.0-1.5). Selenium and silver were both detected above the UUSCO in soil sample 8B-1W (4.5-5.0). Zinc was detected above the UUSCO in soil samples 8B-1N (5.0-5.5), 8B-1NN (1.5-2.0), 8B-1NN (4.5-5.0), 8B-1NN (6.0-6.5), 8B-1S (1.5-2.0), 8B-1S (4.5-5.0), 8B-1S (6.5-7.0), 8B-1SS (1.5-2.0), 8B-1SS (4.5-5.0), 8B-1SS (6.5-7.0), 8B-1W (1.5-2.0), 8B-1W (4.5-5.0), 8B-1W (6.5-7.0), 8B-1WW (1.0-1.5), 8B-1WW (4.5-5.0), and 8B-1WW (6.0-6.5).

AOC-9 Soil Contamination

PSG advanced one boring in AOC-9 (9-B1) in the vicinity of MIP-I2. Soil samples were collected from 6.0-7.0, and 8.5-9.0 feet bgs. Soil sample 9-B1(6.0-7.0) was analyzed for full TCL/TAL analytes including VOCs, SVOCs, TAL metals, pesticides, PCBs, and emerging contaminants. Soil sample 9-B1(8.5-9) was analyzed for VOCs and SVOCs.

Acetone was reported above the UUSCO in soil sample 9-B1(8.5-9). SVOCs indeno(1,2,3-cd)pyrene and 3-Methylphenol/4-Methylphenol were reported above the UUSCOs in soil sample 9-B1(8.5-9). Metal lead and mercury were reported above the UUSCOs in soil sample 9-B1(6-7). No pesticides or PCBs were reported above the UUSCOs at AOC-9.

AOC-10 Soil Contamination

PSG advanced six borings in AOC-10 (10-B1, 10-B2, 10-B3, 10-B4, 10-B5, and 10-B6) during the RI. Soil boring 10-B1 was advanced in the vicinity of MIP-15. Soil boring 10-B2 was

advanced in the vicinity of MIP-34. Soil boring 10-B3 was advanced in the vicinity of MIP-02. Soil boring 10-B4 was advanced in the vicinity of MIP-16. Soil boring 10-B5 was advanced in the vicinity of MIP-09. Soil boring 10-B6 was advanced in the vicinity of MIP-30. Soil samples were collected from soil boring 10-B1 from 8.5-9.0 and 22.0-22.5 feet bgs. At soil boring 10-B2, soil samples were collected from 8.5-9.0 and 34.5-35.0 feet bgs. At soil boring 10-B3, one soil sample was collected from 7.0-8.0 feet bgs. At soil boring 10-B4, soil samples were collected from 7.0-8.0 and 18.0-18.5 feet bgs. At soil boring 10-B5, one soil sample was collected from 6.5-7.0 feet bgs. At soil boring 10-B6, one soil sample was collected from 3.5-4.5 feet bgs.

Soil sample 10-B2(8.5-9.0) was analyzed for full TCL/TAL list including VOCs, SVOCs, TAL metals, pesticides, PCBs, and emerging contaminants. Soil samples 10-B1(8.5-9.0), 10-B3(7.0-8.0), 10-B4(7.0-8.0), 10-B5(6.5-7.0), and 10-B6(3.5-4.5) were analyzed for VOCs and SVOCs. Soil samples 10-B1(22-22.5), 10-B2(34.5-35), and 10-B4(18-18.5) were analyzed for VOCs. In June 2023, PSG advanced soil borings to delineate cVOCs in the vicinity of 10-B6. Soil samples were analyzed for VOCs.

SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were reported above the UUSCOs in soil sample 10-B5(6.5-7). Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were also reported above the RRUSCOs in soil sample 10-B5(6.5-7), and benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were reported above the CUSCOs. Metals arsenic, copper, lead, mercury, and zinc were reported above the UUSCOs in in soil sample 10-B2(8.5-9). Lead was also reported above the CUSCOs. No pesticides were reported above the UUSCOs. PCB Aroclor 1254 was above the UUSCO in soil sample 10-B2(8.5-9).

In June 2023, PSG advanced six (6) soil borings in ACO-8 to further delineate metals-impacted soils around soil boring 8-B1. Soil samples were analyzed for TCL VOCs.

PCE, TCE, cis1,2-DCE, and chloroform were reported above the UUSCOs, and PCE was also reported above the CUSCO in soil sample 10-B6(3.5-4.5). TCE was reported above the UUSCOs in soil samples 10-B6W(4.5-5) and 10-B6N(4.5-5). Acetone and 2-Butanone were reported above

the UUSCO in soil sample 10-B4(18-18.5) at a concentration of 1 mg/Kg. Acetone was reported above the UUSCO in soil samples 10-B6W(1.5-2), 10-B6N(9.5-10), 10-B6E(9.5-10), and 10-B6S(9.5-10). Cis1,2-DCE was reported above the UUSCO in soil sample 10-B6W(4.5-5). Vinyl chloride was reported above the UUSCO in soil sample 10-B6W(7.5-8).

2.4.5 On-Site and Off-Site Groundwater Contamination

Shallow cVOC groundwater exceedances were identified at AOC-7 and at significantly lower concentrations across the remainder of the Site. Specifically, cVOC concentrations were identified in the shallow groundwater zone at AOC-7 at concentrations up to 9,200 µg/L PCE (MW-2); 1,100 µg/L TCE (MW-2); 7,100 µg/L; c1,2-DCE (7-TW3); 1,700 µg/L vinyl chloride (7-TW3); 18 µg/L 1,1-DCA (7-TW-1); 18 µg/L 1,1-DCE (7-TW-3); and 25 µg/L trans 1,2-DCE (7-TW3). The presence of degradation products of PCE and TCE indicate that natural attenuation is occurring. In addition, only two shallow groundwater samples collected downgradient of AOC-7 during the RI indicated the presence of PCE (6.6 µg/L [10-TW-1]) and (5.8 µg/L [MW-4]). PCE, TCE and degradation products were not detected in the remaining downgradient samples collected during the RI. With the exception of a cVOC hot spot in groundwater at AOC-7, in the vicinity of temporary well points 7-TW1 and 7-TW-4 and monitoring well MW-2, relatively consistent cVOC impacts were identified in intermediate and deep groundwater samples across the Site, with similar concentrations identified in offsite, upgradient borings. Additionally, cVOCs were not identified in shallow groundwater in upgradient offsite monitoring wells MW-5 and MW-6. These results suggest that the deep and intermediate zones have been impacted by an offsite plume that has migrating onto the Site, which is also consistent with the findings of the 2021 MIP investigation. However, vertical groundwater profiling data collected by PSG in April 2022 identified increasing cVOC concentrations with depth in temporary well point 7-TW4. Specifically, concentrations of PCE in 7-TW4 were detected at 580 ug/L within the 20’ to 25’ bgs interval, 950 ug/L at 35’ to 40’ bgs, 1,000 ug/L at 50-55’ bgs, and 1,300 ug/L at 65-70’ bgs.

Subsurface investigations conducted at the Site between 2016 and 2021 also identified SVOCs, metals, dissolved metals, PCBs, PFOA, and PFOS in shallow zone groundwater samples, at concentration marginally above NYSDEC AWQGs.

PSG conducted additional groundwater sampling in June 2023 to further assess metals in AOC-8. Total metals results identified various metals above the AWQS or AWQGVs including: antimony, arsenic, barium, chromium, copper, iron, lead, manganese, mercury, nickel, and sodium. However, no significant dissolved metals concentrations were identified, which suggests that the total metals results were biased high due to suspended sediment in the samples. A summary of groundwater data for each AOC is provided as follows:

2.4.5.1 Summary of Groundwater Data

AOC-1 Groundwater Contamination

Temporary well 1-TW1(5-15) was installed to the north-northwest of the former 550-gallon UST. 1-TW1(5-15) was screened from 5 to 15 feet bgs. A groundwater sample was collected from the temporary well and analyzed for VOCs, SVOCs, PCBs, pesticides, filtered/non-filtered metals, and emerging contaminants.

One VOCs, naphthalene was reported above the AWQG groundwater sample 1-TW1(5-15) monitoring well MW-1. PAHs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were reported above the AWQGVs in groundwater samples collected from 5-15 feet bgs. Metals, including antimony, arsenic, iron, lead, manganese, mercury, sodium, and thallium were reported above the AWQGVs in groundwater samples collected at 5-15 feet bgs. Dissolved metals that were reported above the AWQGVs included manganese and sodium. No PCBs and pesticides were detected above the AWQS at this AOC. 1,4-Dioxane was detected in groundwater one groundwater sample at a concentration of 0.242 ug/L.

AOC-2 Groundwater Contamination

Temporary well 2-TW1(10-20) was advanced within the 140 Stewart Avenue building in the vicinity where elevated MIP responses were observed. 2-TW1(10-20) was screened from 10 to 20 feet bgs. One groundwater sample was collected from the temporary well and analyzed for VOCs.

No VOC, SVOCs, metals, PCBs, pesticides, or ECs were reported above the AWQSs or AWQGVs.

AOC-3 Groundwater Contamination

PCE and TCE were detected above the AWQS in previous groundwater sample F4-DEEP (105-109 ft bgs). PSG installed four temporary well points surrounding F4-DEEP. One groundwater sample was collected from each temporary well and was analyzed for VOCs. Specifically, 3-TW1(65-70) and 3-TW1(105-110) were installed at the location of MIP-F4, TW2(20-30) and 3-TW2(65-70) were installed east of MIP-F4, 3-TW3(20-30) and 3-TW3(65-70) were installed north of MIP-F4, 3-TW4(20-30) and 3-TW4(65-70) were installed west of MIP-F4, and 3-TW5(20-30) and 3-TW5(65-70) were installed south of MIP-F4. Temporary well point 3-TW1(65-70) was screened from 65 to 70 feet bgs, 3-TW1(105-110) was screened from 105 to 110 feet bgs, 3-TW2(20-30) was screened from 20 to 30 feet bgs, 3-TW2(65-70) was screened from 65 to 70 feet bgs, 3-TW3(20-30) was screened from 20 to 30 feet bgs, 3-TW3(65-70) was screened from 65 to 70 feet bgs, 3-TW4(20-30) was screened from 20 to 30 feet bgs, 3-TW4(65-70) was screened from 65 to 70 feet bgs, 3-TW5(20-30) was screened from 20 to 30 feet bgs, and 3-TW5(65-70) was screened from 65 to 70 feet bgs.

PCE and TCE were reported above the AWQS in groundwater sample 3-TW1(105-110). C1,2-DCE was reported above the AWQS in groundwater sample 3-TW1(65-70) at a concentration of 10 ug/L. Naphthalene was reported above the AWQGV in groundwater sample 3-TW2(10-20). SVOCs, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene, were reported above the AWQGVs in groundwater sample MW-4. Metals, antimony, iron, lead, manganese, and sodium were reported above the AWQSs, and dissolved metals, antimony, manganese, and sodium, were reported above the AWQSs in groundwater sample MW-4. PCBs and pesticides were not detected above the NYSDEC AWQS at this AOC. Ten PFAS compounds were detected above the NYSDEC AWQGVs in MW-4.

AOC-4 Groundwater Contamination

Temporary well 4-TW1(20-30) was installed to the west of the dry well. 4-TW1(20-30) was screened from 20 to 30 feet bgs. A groundwater sample was collected from the temporary well and analyzed for VOCs and SVOCs.

No VOCs were reported above the AWQS at AOC-4. SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were reported above the AWQGVs in groundwater samples 4-TW1(20-30), and MW-1. Methylphenol, dibenzofuran, and phenol were reported above the AWQSs in groundwater sample MW-1. Metals antimony, arsenic, iron, lead, manganese, mercury, and sodium were reported above the AWQSs in groundwater sample MW-1. Dissolved metals manganese and sodium were reported above the AWQSs in groundwater sample MW-1. PCBs and pesticides were not detected above the AWQS at this AOC. Nine PFAS compounds were detected above the AWQGVs in MW-1.

AOC-5 Groundwater Contamination

No groundwater samples were analyzed for AOC-5.

AOC-6 Groundwater Contamination

No groundwater samples were analyzed for AOC-6.

AOC-7 Groundwater Contamination

MIP results for MIP-06 and MIP-22 indicated the potential presence of chlorinated solvents. To further investigate these areas, temporary well 7-TW1(25-30) was installed in the location of MIP-06, 7-TW2(20-30) was installed west of MIP-06, and 7-TW3(5-15) was installed in the location of MIP-22. Temporary well point 7-TW1(25-30) was screened from 25 to 30 feet bgs, 7-TW2(20-30) was screened from 20 to 30 feet bgs, and 7-TW3(5-15) was screened from 5-15 feet bgs. A groundwater sample was collected from each temporary well and analyzed for VOCs and SVOCs.

PSG directed the advancement of four additional borings at AOC-7, denoted as 7-TW4 through 7-TW7, and collected sixteen additional groundwater samples. The groundwater samples were collected to provide additional vertical profiling data in order to evaluate whether vertical migration of VOCs has occurred in the vicinity of monitoring well MW-2, where the highest concentrations of PCE were identified during the RI. Four groundwater samples were collected from each boring at depths of 25 feet, 40 feet, 55 feet and 70 feet bgs. A groundwater sample was collected from each temporary well point and analyzed for VOCs.

PCE was reported above the AWQS in groundwater sample 7-TW1(25-30) at a concentration of 1,400 ug/L and at a concentration of 9,200 ug/L in groundwater sample MW-2. TCE was reported above the AWQS in groundwater sample 7-TW4-70 at a concentration of 560 ug/L and at a concentration of 1,100 ug/L in groundwater sample MW-2. C1,2-DCE was reported above the AWQS in groundwater sample 7-TW3(5-15) at a concentration of 7,100 ug/L. 1,1-DCA was reported above the AWQS in groundwater sample 7-TW1(25-30) at a concentration of 18 ug/L. 1,1-DCE was reported above the AWQS in groundwater sample 7-TW3(5-15) at a concentration of 16 ug/L. Trans-1,2-DCE was reported above the AWQS in groundwater sample 7-TW3(5-15) at a concentration of 25 ug/L. Vinyl chloride was reported above the AWQS in groundwater sample 7-TW3(5-15) at a concentration of 1,700 ug/L. Benzene was reported above the AWQS in groundwater sample 7-TW4-70 at a concentration of 2.1 ug/L. Toluene was reported above the AWQS in groundwater sample 7-TW6-70 at a concentration of 6.5 ug/L. 1,2-Dichlorobenzene was reported above the AWQS in groundwater sample 7-TW4-70 at a concentration of 7.2 ug/L. Naphthalene was reported above the AWQGV in groundwater sample 7-TW6-55 at a concentration of 200 ug/L. SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were reported above the AWQGVs in groundwater samples 7-TW3(5-15) and MW-2. Metals iron and lead were reported above the AWQS in groundwater sample MW-2. No dissolved metals, PCBs, or pesticides were detected above the NYSDEC AWQS at this AOC. Seven PFAS compounds were detected above the AWQGVs in MW-2.

AOC-8 Groundwater Contamination

In June 2023, temporary wells 8B-1N-GW, 8B-1NN-GW, 8B-1E-GW, 8B-1S-GW, 8B-1SS-GW, 8B-1W-GW, and 8B-1WW-GW were installed in the vicinity of soil boring 8-B1. Temporary well point samples 8B-1N-GW, 8B-1NN-GW, 8B-1E-GW, 8B-1S-GW, 8B-1SS-GW, 8B-1W-GW, and 8B-1WW-GW were analyzed for total and dissolved metals.

Antimony was reported above the AWQS in groundwater samples 8B-1N-GW, 8B-1NN-GW, 8B-1E-GW, 8B-1S-GW, 8B-1SS-GW, 8B-1W-GW, and 8B-1WW-GW. Arsenic was reported above the AWQS in groundwater samples 8B-1NN-GW, 8B-1E-GW, 8B-1S-GW, 8B-1SS-GW, and 8B-1WW-GW. Barium was reported above the AWQS in groundwater sample 8B-

1NN-GW. Chromium was reported above the AWQS in groundwater samples 8B-1N-GW, 8B-1NN-GW, 8B-1E-GW, 8B-1S-GW, and 8B-1SS-GW. Copper was reported above the AWQS in groundwater samples 8B-1N-GW, 8B-1NN-GW, 8B-1S-GW, and 8B-1SS-GW. Iron, lead, manganese, mercury, and sodium were reported above the AWQS in groundwater samples 8B-1N-GW, 8B-1NN-GW, 8B-1E-GW, 8B-1S-GW, 8B-1SS-GW, 8B-1W-GW, and 8B-1WW-GW. Nickel was reported above the AWQS in groundwater sample 8B-1NN-GW. Thallium was reported above the AWQGVs in groundwater sample 8B-1NN-GW.

Dissolved antimony and sodium were reported above the AWQS in groundwater samples 8B-1N-GW, 8B-1NN-GW, 8B-1E-GW, 8B-1S-GW, 8B-1SS-GW, 8B-1W-GW, and 8B-1WW-GW. Dissolved arsenic was reported above the AWQS in groundwater samples 8B-1WW-GW. Dissolved iron was reported above the AWQS in groundwater samples 8B-1N-GW and 8B-1W-GW. Dissolved manganese was reported above the AWQS in groundwater samples 8B-1N-GW, 8B-1E-GW, 8B-1S-GW, 8B-1SS-GW, 8B-1W-GW, and 8B-1WW-GW.

AOC-9 Groundwater Contamination

Temporary well 9-TW1(5-15) and 9-TW1(20-30) was installed in the vicinity of MIP-I2. 9-TW1(5-15) was screened from 5 to 15 feet bgs and 9-TW1(20-30) was screened from 20 to 30 feet bgs. A groundwater sample was collected from 9-TW1(5-15) and analyzed for VOCs, SVOCs, PCBs, pesticides, filtered/non-filtered metals, and emerging contaminants. Temporary well point samples 9-TW1(20-30) was analyzed for VOCs and SVOCs.

PCE, TCE, c1,2-DCE, and vinyl chloride were reported above the AWQS in groundwater sample 9-TW1(20-30). No SVOCs PCBs, or pesticides were detected above the AWQSs or AWQGVs at AOC-9. 1,4-Dioxane was detected in groundwater sample 9-TW1(5-15) at a concentration of 17.1 ug/L. Metals antimony, iron, lead, manganese, mercury, and sodium were reported above the AWQSs in groundwater sample 9-TW1(5-15). Dissolved metals iron, manganese, and sodium were reported above the AWQS in groundwater sample 9-TW1(5-15).

AOC-10 Groundwater Contamination

Temporary wells 10-TW1(5-15) and 10-TW1(20-30) were installed west of MIP-15. 10-TW1(5-15) was screened from 5 to 15 feet bgs and 10-TW1(20-30) was screened from 20 to 30 feet bgs. Temporary wells 10-TW2(65-70) and 10-TW2(105-110) were installed in the vicinity of MIP-34. 10-TW2(65-70) was screened from 65 to 70 feet bgs and 10-TW2(105-110) was screened

from 105 to 110 feet bgs. Temporary well points 10-TW1(5-15) and 10-TW1(20-30) were analyzed for VOCs and SVOCs. Temporary well point samples 10-TW2(65-70) and 10-TW2(105-110) were analyzed for VOCs.

VOCs PCE, TCE, c1,2 DCE, and dichlorodifluoromethane were reported above the AWQS in groundwater sample 10-TW2(65-70). SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were reported above the AWQGVs in groundwater sample 10-TW1(5-15). Metals antimony, chromium, iron, lead, manganese, mercury, and sodium were reported above the AWQS in groundwater sample MW-3. Dissolved metals antimony, iron, lead, and sodium were reported above the AWQSs in groundwater sample MW-3. No pesticides were reported above the AWQS. The PCB, Aroclor 1254, was reported above the AWQS and eight PFAS compounds were detected above the AWQGVs in MW-3.

Off-site Groundwater Contamination

Temporary well points 0-TW1(65-70) and 0-TW1(105-110) were installed offsite, east of the site, in the sidewalk of Gardner Avenue. 0-TW1(65-70) was screened from 65 to 70 feet bgs and 0-TW1(105-110) was screened from 105 to 110 feet bgs. Temporary well point 0-TW2(65-70) was installed offsite, northeast of the site, in the sidewalk of Meserole Street. 0-TW2(65-70) was screened from 65 to 70 feet bgs. PSG made several attempts to advance 0-TW-2 deeper than 70 feet but encountered refusal due to heaving sands. A groundwater sample was collected from each temporary well point and analyzed for VOCs.

VOCs PCE, TCE, cis-1,2-DCE, and dichlorodifluoromethane were reported above the AWQSs in groundwater sample 0-TW1(65-70). SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were reported above the AWQGVs in groundwater sample MW-5. No groundwater samples were analyzed for metals, pesticides, PCBs, or emerging contaminants at offsite locations.

2.4.6 On-Site and Off-Site Soil Vapor Contamination

PSG collected soil vapor samples on the perimeter of the Site in an effort to assess soil vapor quality near the Site boundaries. Soil vapor samples were analyzed for VOCs and methane.

Benzene was identified in a soil vapor sample collected at the northwestern property boundary. In addition, cVOCs, including c1,2-DCE, PCE, and TCE, were identified in a soil vapor sample collected along the southern boundary in the vicinity of AOC-7. These findings are consistent with data identified during the previous AKRF, GCE, and PSG investigations.

Total petroleum related VOCs ranged from 12.7 µg/m^3 in SV-5 to 426.9 µg/m^3 in SV-2. Additional light end petroleum compounds were identified in multiple soil vapor samples. PCE was reported in five soil vapor samples at concentrations ranging from 23.2 µg/m^3 (SV-2) to 4,750 µg/m^3 (SV-5). TCE was reported in three soil vapor samples at concentrations ranging from 16.5 µg/m^3 (SV-6) to 763 µg/m^3 (SV-5). C1,2-DCE was reported in two soil vapor samples at concentrations ranging from 8.76 µg/m^3 (SV-6) to 324 µg/m^3 (SV-5). 111-TCA was reported in two soil vapor samples at concentrations ranging from 0.6 µg/m^3 (SV-2) to 43.2 µg/m^3 (SV-3). Methylene chloride was reported in one soil vapor sample (SV-6) at a concentration of 21.8 µg/m^3. 1,1-dichloroethene, carbon tetrachloride, and vinyl chloride were not identified in any of the collected soil vapor samples.

Methane was not detected in any of the soil vapor samples. Based on the results of the soil vapor sampling, methane vapor is not a significant concern at the Site.

2.4.7 Potential Sources of Contamination

Sources of contamination at the site primarily include contaminants related to historical commercial operations at the Site, and contaminants from documented historic urban fill material (brick fragments, gravel, and rock fragments) which was historically placed at the site to raise the grade for development.

The Site appears to have been undeveloped land in 1888 and developed with an iron and steel works building at 140 Stewart Avenue and a liquid bleach manufacturer by 1933. Available information indicates that several chemical companies, bleach manufacturers, previously occupied the 111 Gardner site from at least 1931 to 1995. No information is known on the use, storage or disposal of hazardous materials or the chlorine manufacturing operations prior to the 1980s. Sanborn maps depict a railroad spur running from the southern property boundary onto the Site between 1933 and 2007.

Before the Site was redeveloped to the current use, Filco Carting and Skoor Steel Co., Inc. occupied the Site. GRS Group identified one 275-gallon, diesel AST, one 275-gallon, waste oil AST, two approximate 275-gallon, hydraulic oil ASTs, and one approximate 275-gallon, antifreeze AST at the Site. Skorr Steel Company was a stainless steel supplier and Filco Carting operated as a rubbish removal service and rented roll-off containers.

2.4.8 Receptor Populations

The human receptors for current site conditions include employees, and visitors. Visitors may be comprised of adult customers and employees. During construction and remediation activities, receptors will include construction and remediation workers. Under future conditions, receptors will likely include employees and visitors.

2.5 ENVIRONMENTAL AND PUBLIC HEALTH ASSESSMENTS

2.5.1 Qualitative Human Health Exposure Assessment

The objective of the QHHEA is to identify potential receptors and pathways for human exposure to the constituents of concern that are present at, or migrating from, the Site. An identified pathway indicates that the potential for exposure exists.

The RI was sufficient to complete a QHHEA, which was performed to determine whether the Site poses an existing or future health hazard to the Site's occupants or surrounding population. The RI was evaluated to determine whether there is a potential health risk by characterizing the exposure setting, identifying exposure pathways, and evaluating contaminant fate and transport. The QHHEA was prepared in accordance with Appendix 3B and Section 3.3 (b) 8 of the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation dated May 2010.

The Site is currently an entertainment/music venue, which is capped by two (2) one-story buildings, one on the northeast corner (111 Gardner Avenue) and one on the southwest corner (140 Stewart Avenue), with asphalt paved areas throughout most of the remaining areas of the Site. Site occupation is limited to public and staff occupancy during events, staff required for setup, ticket

and office areas, operation, and take-down immediately prior to, during and after the scheduled events.

Potential pathways to human receptors include direct contact (dermal absorption), ingestion, and inhalation of identified constituents of concern. An evaluation of potential exposure pathways is provided below.

The pathway for direct contact and ingestion with subsurface soils is incomplete in the current and future condition as contaminated subsurface soils are covered by impervious building structures, asphalt, and concrete, which were observed to be in good condition with minimal fractures, breaks, and open areas. There is no complete pathway for exposure to contaminated groundwater, as groundwater is not used for drinking water in New York City.

Vapor intrusion to indoor air presents a potential exposure pathway in the current and future condition. Active SSDS systems have been installed in the two-permanent on-site structures. The systems' electrical panels have lock-outs to ensure the systems are always active and running. Seasonal tents are generally erected in the Brooklyn Mirage area of the Site to hold public events during winter months. PSG collected indoor air samples within the tents in January 2020 and December 2021. No elevated concentrations of VOCs were identified during either indoor sampling event, which indicates that the vapor intrusion pathway is incomplete. Indoor Air Investigation Summary reports dated February 17, 2020, and December 31, 2021, respectively, were previously provided to the NYSDEC and NYSDOH.

According to the NYC Oasis Map, the Site and surrounding area are located in a Manufacturing District, which is currently zoned "Industrial and Manufacturing Buildings". North of the Site and across Meserole Street is Best Choice Trading Corporation and Alexander Supply, which operate in an industrial building. Oriental Lumber is located east of the Site and across Gardner Avenue. Another industrial building, D&M Lumber Products, is located west of the Site, across Stewart Ave. The southern Site border is an active railroad line, owned by the Long Island Railroad. South of the railroad are the following industrial buildings; Caesarstone Quartz Surfaces, United Rentals, and Montebello Food Corporation. No sensitive receptors were identified within

a 500-foot radius of the Site. Newtown Creek is approximately 1,400-ft northeast of the Site and 1,580-ft to the west. Residential buildings are located approximately 1,460-ft southeast of the Site.

Soil vapor samples collected by PSG at the northern, eastern, and western property boundaries indicated no elevated concentrations of VOCs except benzene in sample SV-2 located near the northwestern property boundary; however, as no significant source of benzene has been identified in soil or groundwater at the Site; the Site does not appear to be the source of the elevated benzene concentration.

The soil vapor along the southern boundary in the vicinity of AOC-7 indicated elevated cVOC concentrations. No sensitive receptors are present in close proximity to the elevated soil vapor concentrations identified at the Site, with the exception of potentially occupied commercial properties located 100 feet south of the site, across the unpaved railroad tracks. These properties appear to be fully developed with asphalt and concrete-paved parking lots and building structures, which would, combined with the presence of the unpaved ground adjacent to the southern property boundary cause the soil vapor intrusion pathway to be incomplete.

Offsite direct contact and ingestion with subsurface soils and groundwater is unlikely to occur since contaminated subsurface soils at the Site are covered by impervious building structures, asphalt, and concrete. In addition, groundwater beneath the Site and surrounding area are not used for drinking purposes and no private potable and non-potable wells exist within ½-mile of the Site.

Remedial excavations are proposed to address cVOC-impacted soils at the Site. Remediation workers engaged in the excavation of impacted and non-impacted historic fill/soil at the Site may be exposed to petroleum and cVOCs, SVOCs, metals, pesticides, and PCBs through inhalation, ingestion, and dermal contact. In addition, workers excavating soil may be exposed to cVOCs in soil vapor through inhalation.

Working in accordance with a HASP and a CAMP, as well as wearing proper personal protective equipment to prevent offsite migration of contaminations during construction, would make this potential migration pathway incomplete and minimized the potential hazards to on-site workers. PSG notes that no public events will take place during remediation activities.

Following remediation activities, occupants of the Site could potentially be exposed to vapor intrusion if remediation of the source area is not completed and if preventive measures are not incorporated to protect against contaminated soil vapor intrusion. However, the two active SSDS systems currently in place at the Site are effectively protecting the buildings from vapor intrusion and rendering the potential vapor intrusion pathway incomplete.

2.6 INTERIM REMEDIAL ACTION

No Interim Remedial Actions (IRMs) are proposed at the Site. Previous IRMs completed at the Site include the installation of the active SSDSs at 140 Stewart Avenue and 111 Gardner Avenue. The SSDS at 140 Stewart Avenue was installed by NYCO in May 2016 and consists of six SSDS gravel pits with a 3" diameter pipe and riser connected to three Model 105 fans located on the rooftop of the building. Following installation, vacuum readings were collected on May 18, 2017 and sub-slab soil gas samples were collected on May 19, 2021, which confirmed the operation effectiveness of the SSDS. The SSDS at 111 Gardner Avenue was installed by NYCO in June 2017 and consists of four SSDS gravel pits with a 3" diameter pipe and riser connected to two Model 106 fans located on the rooftop of the building. The Vapor Phase Carbon units attached to the discharge of the SSDS blowers at 111 Gardner Avenue were replaced on February 6, 2019 when the SSDS blower discharge points were relocated during building renovations. On February 20, 2019, the SSDS at 111 Gardner Avenue was re-tested and confirmed that the SSDS was functioning property and the building sub slab soil continued to be under negative pressure. Each SSDS was equipped with permanently separated circuits and a Bluetooth current sensing device which would alert the Volunteer if the blowers were turned off. The SSDS blower discharge points at both 140 Stewart Avenue and 111 Gardner Avenue are located at least 20 feet from the HVAC rooftop units and their respective fresh air intakes.

According to a SSDS Operation and Maintenance (O&M) Plan prepared by PSG and dated May 2019, the Vapor Phase Carbon units attached the SSDS discharge points were to be changed annually. In addition, the SSDS would be checked annually, and routine monitoring would occur every 12-18 months that that the system was operational. Routine monitoring would consist of visual inspections of the equipment and slab/joint sealing, recording the vacuum gauge reading on

control panels, recoding the sub slab vacuum via magnehelic differential pressure gauges, recording the rise vacuum for all systems, and inspection and testing of the system warning device.

Confirmation indoor air sampling at 140 Stewart Avenue was conducted on May 8, 2017, December 28, 2017, December 31, 2017, June 21, 2021, December 22, 2021, August 30, 2023, and August 26, 2024.

Confirmation indoor air sampling at 111 Gardner Avenue was conducted on December 22, 2021, August 30, 2023, and August 26, 2024.

Copies of the 2016 SSDS Letter Report, 2023 Annual Certifications, and 2024 Annual Certifications are included in **Appendix D**.

2.7 REMEDIAL ACTION OBJECTIVES

Based on the results of the Remedial Investigation, the following RAOs have been identified for this Site.

2.7.1 Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

2.7.2 Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels exceeding the AWQS.

- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer, to the extent practicable, to regional background conditions.
- Remove the source of ground or surface water contamination.

2.7.3 Soil Vapor

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site.

3.0 DESCRIPTION OF REMEDIAL ACTION PLAN

This section presents an analysis of remedial actions that are to achieve compliance with NYCRR Part 375 under a Track 4 cleanup using site-specific SCO. Contamination remaining at the Site following completion of the remedial actions outline in this RAWP will be managed under a Site Management Plan. The proposed Track 4 cleanup includes a combination of techniques to remove or treat chlorinated VOCs in soil, groundwater, and soil vapor, control the spread of contaminants, prevent contact with contaminants, restrict the use of the property, and provide for the proper management of the site into the future.

Track 4 SCOs proposed for the RA will be the PGWSCO for cVOCs and CUSCOs for all remaining contaminants. The remaining sitewide contaminants of concern above CUSCOs will be addresses via engineering and institutional controls including a site cover system, SSDS, EE, and SMP. Contaminants identified above the CUSCOs are summarized in **Table 3**.

3.1 EVALUATION OF REMEDIAL ALTERNATIVES

The following is a detailed description of the alternatives analyzed to address impacted medial at the Site:

Alternative 1 – Track 1 Cleanup:

- Selection of NYSDEC 6NYCRR Part 375 Unrestricted Use (Track 1) SCOs.
- Removal of all soil/fill exceeding Track 1 Unrestricted Use SCOs throughout the Site and confirmation that Track 1 Unrestricted Use SCOs have been achieved with post-excavation endpoint sampling.
    - Based on the results of the Remedial Investigation, it is expected that this alternative would be achieved by excavating the entire Site to 10 feet bgs, with localized excavation to 20 feet bgs at AOC-3, AOC-7, AOC-8, and AOC-10, removing approximately 30,000 cubic yards of contaminated soil.
- Off-site disposal of excavated soil in accordance with all applicable federal, state, and local rules and regulations.
- Import of clean backfill meeting the UUSCOs to replace the excavated soil.
- Treatment of impacted groundwater at the Site, including the injection of Provect-IR® into the subsurface at AOC-7 and the application of Provect-IR® in the open excavation pit at AOC-7 prior to backfilling. Up to nine monitoring wells would be installed at the Site and sampled pre- and post-injection. Groundwater monitoring would continue on a quarterly basis thereafter until NYSDEC AWQG levels are achieved.
- Maintenance of the two active SSDS systems previously installed at the Site.

Alternative 2 – Track 4 Cleanup:

- Selection of Track 4 Site-specific Commercial SCOs.
- Removal of all soil/fill exceeding Commercial SCOs in the upper 1 foot across the Site.
- Removal of soil/fill exceeding Protection of Groundwater SCOs for cVOCs for all depths above the water table.
    - Based on the results of the Remedial Investigation, it is expected that this alternative would be achieved by excavating uncapped areas which currently do not meet Commercial SCOs to 1-foot bgs and excavating AOC-7 to 10 feet bgs and AOC-10 to 8 feet bgs. No uncapped areas exist at the Site and the excavation will be limited to AOC-7 and AOC-10, removing approximately

350 cubic yards of contaminated soil.

- Off-site disposal of excavated soil in accordance with all applicable federal, state, and local rules and regulations.
- Import of clean backfill meeting the lower of PGSCOs and CUSCOs to replace the excavated soil.
- Treatment of impacted groundwater at AOC-7, including the injection of Provect-IR® into the subsurface and the application of Provect-IR® in the open excavation pit prior to backfilling. Up to nine monitoring wells would be installed at the Site and sampled pre- and post-injection. Groundwater monitoring would continue on a quarterly basis thereafter until NYSDEC AWQG levels are achieved.
- Maintenance of the site cover system.
- Maintenance of the two active SSDS systems previously installed at the Site.
- Development of a SMP to operate, monitor and maintain all engineering and institutional controls on the site.
- Establishment of institutional controls including an EE limiting the use of the Site to commercial/industrial activities, restrictions on unauthorized excavation or disturbance of the cover system, and the ensuring implementation of the SMP.

The remedial alternatives were compared to the following criteria:

- Protection of human health and the environment
    - Alternative 1 would be protective of human health and the environment by removing all soil/fill exceeding Track 1 Unrestricted Use SCOs, by treating groundwater, and by maintaining the two active SSDS systems previously installed at the Site, thus eliminating potential for direct contact with contaminated soil/fill and eliminating the risk of contaminants leaching into groundwater and vapor, and to enhance natural attenuation for further reduction of the residual concentrations accelerating the natural attenuation of

groundwater impacts in AOC 7 so they are more consistent with site-wide impacts.

  - Alternative 2 would be protective of human health and the environment by removing cVOC hot spots at the Site and by ensuring that remaining soil/fill meets Track 4 Site-Specific SCOs, by treating groundwater, and by establishing institutional and engineering controls, including a site cover system and SSDS. The site cover system would prevent direct contact with contaminated soil/fill, treating groundwater would enhance natural attenuation for further reduction of the residual concentrations accelerating the natural attenuation of groundwater impacts in AOC 7 so they are more consistent with site-wide impacts, and the institutional controls would ensure that the engineering controls remain intact and protective of public health.

- Compliance with standards, criteria, and guidelines (SCGs)
  - Alternative 1 would achieve compliance with the remedial goals, chemical-specific SCGs and RAOs for soil, groundwater, and vapor through removal of soil to achieve Track 1 Unrestricted Use SCOs, treatment of groundwater, and maintenance of the two existing active SSDS systems at the Site.
  - Alternative 2 would achieve compliance with the remedial goals, chemical-specific SCGs and RAOs for soil, groundwater, and vapor through removal of soil to meet Track 4 Site-specific SCOs, treatment of groundwater, and maintenance of the two active SSDS systems at the Site.
- Short-term effectiveness and impacts
  - Both Alternative 1 and 2 have similar short-term effectiveness as each requires excavation of contaminated soil and historic fill material. Additionally, both Alternative 1 and 2 have similar short-term effectiveness for protecting the surrounding communities by decreasing the risk of contact with on-Site contaminants. However, impacts related to excavation would include short-

term dust generation and increased truck traffic. Alternative 2 is estimated to require the removal of approximately 350 cubic yards of soil. In contrast, Alternative 1 would involve the removal of roughly 30,000 cubic yards of historic fill site-wide. Due to the substantially larger excavation required for Alternative 1, these short-term impacts would be significantly greater compared to Alternative 2.

- Long-term effectiveness and permanence
  - Alternative 1 would achieve long-term effectiveness and permanence related to on-Site contamination by permanently removing all impacted soil/fill above Track 1 Unrestricted Use SCOs, remediating groundwater, and maintaining the active SSDS systems. Removal of on-Site contaminant sources will also prevent future groundwater contamination.
  - Alternative 2 would achieve long-term effectiveness and permanence related to on-Site contamination by removing the cVOC source material, remediating groundwater, utilizing a site cover system across the Site, maintenance of the active SSDS systems, maintaining use restrictions, and placing an EE on the Site.
- Reduction of toxicity, mobility, or volume of contaminated material
  - Alternative 1 will permanently eliminate the toxicity, mobility, and volume of contaminants from on-Site soil, groundwater, and vapor by removing all soil in excess of Track 1 Unrestricted Use SCOs and treating groundwater at the Site. Alternative 1 would remove a greater total mass of contaminants from the Site.

    Exposure to soil would be eliminated through the maintenance of the existing site cover system and active SSDS systems.
  - Alternative 2 will remove the cVOC source material and treat groundwater at the Site. All soil/fill remaining at the Site would meet Track 4 Site-specific

SCOs and exposure to residual soil and vapor would be minimized through the site cover system and maintenance of the existing active SSDS systems.

- Implementability (technical and administrative feasibility):
    - The techniques, materials and equipment to implement both Alternatives 1 and 2 are readily available and have been proven to be effective in remediating the contaminants present on the Site. They use standard equipment and technologies that are well established in the industry. There are no special difficulties associated with any of the activities proposed.
- Cost Effectiveness
    - Historic fill at the site extends to approximately 10 feet below ground surface (bgs). Consequently, the costs associated with Alternative 1 and Alternative 2 are not comparable. The estimated cost for Alternative 2 is approximately $1,250,000, with $138,320 of the total costs directly related to soil removal. . However, to achieve Track 1 Unrestricted Use Soil Cleanup Objectives (SCOs) across the site, the estimate cost for Alternative 1 is approximately $6,435,000, with $3,571,572 of the total costs directly related to soil removal, making it cost-prohibitive. Refer to **Appendix E** for remedial cost estimates for both Alternative 1 and Alternative 2.
    - Additional short-term costs for Alternative 1 would include installation of additional shoring/underpinning, disposal of additional soil, and import of clean soil for backfill.
    - Long-term costs for Alternative 2 would be higher than Alternative 1 based on the need for ongoing site management, and operation and maintenance of engineering controls at the Site.
- Community Acceptance

- This RAWP was subject to a public comment period to provide the community with an opportunity for public input on the remedial alternatives and selected remedy. No public comments were received.
- Under both alternatives, the overall goals of the remedial program (to protect public health and the environment and eliminate potential contaminant exposures) have historically been broadly supported by surrounding communities.

- Green and Sustainable Remediation (including climate resiliency)
  - Remedies for both alternatives would be implemented in a more energy-efficient manner, use cleaner and more energy-efficient equipment and construction techniques, and use more sustainable materials when possible.
  - The remedial plan for both alternatives will take into consideration the shortest trucking routes during off-Site disposal of historic fill and other soils.
  - As Alternative 1 would require significantly more excavation compared to Alternative 2, it would have a higher short-term impact on the climate due to the increased greenhouse gas generation from truck traffic.
- Land use
  - Following remediation, the Site will meet either Track 1 Unrestricted Use or Track 4 Site-Specific SCOs, both of which are protective of public health and the environment for its current and planned commercial use. The proposed use is compliant with the property's zoning and is consistent with recent development patterns.
  - The areas surrounding the Site are urban and consist of predominantly industrial buildings in zoning districts designated for industrial use.

- The Site is not located in an area impacted by comprehensive community master plans, local waterfront revitalization plans, or other applicable land use plans.
- The Site is located in a potential environmental justice area (PEJA); however, the proposed use of the Site will not cause or increase a disproportionate burden on the surrounding community.
- The Site is not in close proximity to important cultural resources, including federal or state historic or heritage sites or Native American religious sites, natural resources, waterways, wildlife refuges, wetlands, or critical habitats of endangered or threatened species.
- The Site does not lie in a Federal Emergency Management Agency (FEMA)-designated flood plain.
- Groundwater in the surrounding area is not used for potable uses and groundwater at the Site will not impact groundwater recharge areas or other areas identified by the NYSDEC groundwater remediation and protection program.

3.2 SUMMARY OF SELECTED REMEDIAL ACTIONS

The preferred remedial action alternative is Alternative 2. The preferred remedial action achieves protection of public health and the environment for the intended use of the property and will achieve all of the remedial action objectives and applicable SCGs established for the project. Further, the preferred remedial action is effective in both the short-term and long-term and reduces mobility, toxicity, and volume of contaminants. The preferred remedial action is cost-effective and implementable in terms of technical and administrative feasibility, will be accepted by the community, and include elements of green and sustainable remediation. Finally, the preferred remedial action is appropriate for the current and proposed land uses of the Site and surrounding area.

Chlorinated VOC source areas in AOC-7 and AOC-10 will be removed to prevent further

impacts to groundwater. A site cover system consisting of the existing concrete building slabs and asphalt pavement on exterior open areas of the Site will prevent exposure to remaining contaminated soils. Groundwater treatment utilizing Provect-IR® will remediate cVOCs in groundwater, while the SSDSs will prevent soil vapor contamination inside the buildings. Proposed institutional controls will include an EE limiting the use of the Site for commercial/industrial activities, restrictions on unauthorized excavation or disturbance of the cover system, and a Site Management Plan.

In addition, due to elevated concentrations of dissolved VOC and PAH constituents in groundwater sitewide, with localized cVOC hot spots to depths of 110 feet bgs, and additional impacts related to a commingled cVOC plume migrating on to the Site from an off-site source, remediation of groundwater to the AWQS/AWQSGVs would not be practical or feasible. The objective of the RA for groundwater will be to treat the cVOC groundwater hot spot in AOC-7, such that dissolved cVOC concentrations are more consistent with upgradient conditions, and residual groundwater impacts will continue to naturally attenuate. Proposed institutional controls include restricting the use of groundwater at the Site.

The RAOs for soil vapor include preventing soil vapor from entering Site buildings or migrating offsite.

The objective of this RAWP is to achieve a Track 4 remedy for commercial use consisting of cVOC soil and groundwater hot spot remediation, engineering controls, and institutional controls to prevent exposure to contaminated media. The components of the RA will include the following:

1. **cVOC Soil Hot Spot Excavation:** PSG will conduct remedial excavations at AOC-7 and AOC-10 to remove all cVOC-impacted soils with PGWSCO exceedances above the water table in order to prevent further impacts to Site groundwater. The proposed excavations will be 44’x15’x10’ at AOC-7 and 22’x15’x8’ at AOC-10. **Figure 10** depicts the estimated limits of the remedial excavations at each AOC. The remedial excavations will include the following tasks:

    - Decommission monitoring well MW-2 in accordance with the NYSDEC *CP-43: Groundwater Monitoring Well Decommissioning Policy*;

- Saw-cut, remove and dispose of asphalt in the areas to be excavated;
- Excavate an approximate 660 sf area at AOC-7 and an approximate 330 sf area at AOC-10 to the soil groundwater interface;
- Excavated soils will be inspected for organoleptic evidence of contamination and field-screened using a PID;
- Soils generated from the remedial excavation will be stockpiled or containerized into roll-off dumpsters for off-site disposal at a pre-approved soil disposal facility. All roll-off containers will be lined and covered at the end of each workday. Prior to conducting the excavations, PSG will complete waste characterization sampling for disposal facility acceptance of the waste. PSG obtained a Contained-In Determination from the NYSDEC on November 20, 2024 which clarified that soil excavated from AOC-10 and soils excavated from AOC-7 except the soil within the area delineated to the west by boring 7-B2; to the south by boring 7-1S; to the north by 7-B1N; and to the east by 7-B1E did not have to be managed as hazardous waste. The Contained-In Determination further stated that a contained-in request could be made for soils from borings 7-B1W, 7-B1WW, and 7B1 after the area was excavated and confirmatory samples were received; until that time, soils from these borings would be characterized as hazardous waste. An estimated 321 cubic yards of non-hazardous soil and up to 22 cubic yards of hazardous soil is expected to be excavated and removed from the Site. A copy of the Contained-In Determined is included as **Appendix F**.
- Confirmation samples will be collected during the remedial excavations for laboratory analysis by an ELAP-certified laboratory for TCL VOCs, to determine whether additional excavation is required. After the limits of the excavation are determined, final confirmation soil samples will be collected for TCL VOCs, TCL SVOCs, TAL metals, pesticides, PCBs, 1,4-dioxane, and PFAS;
- Once the limits of the remedial excavations have been determined, the excavation will be backfilled and compacted in 6-inch to 12-inch lifts, asphalt will be restored in kind with the surround surface. Imported material will consist of clean fill that meets the

UUSCOs or other acceptable fill material such as virgin stone from a quarry or recycled concrete aggregate (RCA). If RCA is imported to the Site, it will come from a NYSDEC-registered facility in compliance with 6 NYCRR Part 360 registration and permitting requirements for the period of RCA acquisition. RCA imported from compliant facilities will not require chemical testing, unless required by NYSDEC under its terms for operation of the facility. Imported RCA will be derived from recognizable and uncontaminated concrete (less than 10% by weight passing through a No. 80 sieve). All material proposed for import will be submitted to NYSDEC for review and approval utilizing the Request to Import/Reuse Fill form (**Appendix M**). No material will be imported to the site until approval is received from NYSDEC.

- Proposed locations of temporary soil stockpiles or roll off containers are depicted on **Figure 12**. Proposed truck routes are shown on **Figure 13**.

2. **In-Situ Chemical Reduction (ISCR):** PSG consulted with Provectus to develop an appropriate chemical injection plan to address the cVOC impacts in soil and groundwater at the Site. Provect-IR® is a unique mixture of reagents that optimizes the in situ reductive dechlorination of chemicals present in soil and groundwater. Following placement of Provect-IR® into the subsurface environment, a number of physical, chemical, and microbiological processes combine to create very strong reducing conditions that stimulate rapid and complete dechlorination of organic solvents and other recalcitrant compounds. Provectus product specifications and dosing calculations are included as **Appendix G**.

   Prior to backfilling the cVOC soil hot spot excavation at AOC-7, Provect-IR® will be applied in the open excavation at 2% of soil mass using a 3-foot vertical target interval at the water table. A total of 1,000 pounds of Provect-IR® is estimated for the excavation.

   In addition, the ISCR program will include injecting Provect-IR® into the subsurface to address the chlorinated solvent groundwater hot spot area at AOC-7. The injections will be performed using a direct push drill rig outfitted with steel injection rods. The ISCR injection activities will include a 3,000 square foot target area with a maximum 110 foot vertical target zone, which is the effective limit of the direct-push equipment at the Site. The Provect-IR® will be applied at an average of 0.30% of soil mass, which will ensure effective

reagent distribution while overcoming the reagent demand for contaminant destruction. The ISCR program also incorporate bioaugmentation with Dehalococcoides (DHC; 29 liters) to ensure efficient cVOC destruction.

The injections will include the application of approximately 34,800 pounds of Provect-IR® which will be mixed with approximately 1,728 gallons of water. Injections will be applied to 23 injection points across the Site. Six of these injection points, which cover a 400 square foot area, will be applied from 15 to 110 feet bgs, where the highest degree of cVOC impacts in groundwater are located. The residual plume target zone is from 15 to 40 feet bgs and will be addressed via seventeen other injection points. Refer to **Figure 11** for a depiction of proposed ISCR direct push injection points. A summary of proposed injection intervals and Provect-IR mass is given in **Table 8**.

With the exception of a cVOC groundwater hot spot in AOC-7, relatively consistent cVOC impacts are present in intermediate and deep groundwater samples across the Site, with similar concentrations identified in offsite, upgradient borings and monitoring wells. These results indicate that the deep and intermediate zones have also been impacted by an offsite regional plume, which has migrating onto the Site. Based on prior measurements, the aquifer exhibits reducing biogeochemical conditions including DO at less than 1 ppm and negative ORP, and neutral pH. The objective of the ISCR program is to reduce the cVOC groundwater concentrations at AOC-7 such that cVOC concentrations are more consistent with sitewide conditions and to enhance natural attenuation for further reduction of the residual concentrations.

For the injection plans, the cVOC areas have been divided into two sections which will be treated with different quantities of Provect-IR® based on the degree of cVOC impacts identified in the RI.

- 15-110 feet bgs: Located in the central area of the cVOC hot spot measuring 400 square feet where high degrees of cVOC impacts are present. This zone will receive approximately 14,400 pounds of Provect-IR®, which will be applied through 6 injection points.

- 15-40 feet bgs: Located in the area surrounding the cVOC hot spot measuring 400 square feet where residual impacts of cVOC impacts are present. This zone will receive approximately 20,400 pounds of Provect-IR®, which will be applied through 17 injection points.

3. **Monitoring Well Installations:** Monitoring wells will be installed at the Site to evaluate the effectiveness of remedial actions. PSG will install monitoring wells around the injection area to ensure that the treatment does not alter groundwater flow and to monitor for potential off-site migration to the south. Proposed monitoring well locations are depicted on **Figure 11**. Up to nine (9) monitoring wells will be installed at the following locations:

    - Four (4) monitoring well clusters at AOC-7, immediately west-northwest (downgradient) of the ISCR treatment area, screened at 5-20 feet bgs, 35-40bgs, 65-70 feet bgs, and 105-110 feet bgs;
    - Four (4) downgradient well clusters in the sidewalk or paved area immediately west-northwest AOC-3, screened at 5-20 feet bgs, 35-40 feet bgs, 65-70 feet bgs, and 105-110 feet bgs;
    - One monitoring well couplet with two monitoring wells, screened at 5-20 feet bgs and 35-40 feet bgs, immediately southeast of the ISCR treatment area in the vicinity of RIR boring 7-B1/7-TW3, where elevated concentrations of cVOC breakdown products cis 1,2-DCE and vinyl chloride were identified, to monitor for potential off-Site migration to the south.
    - The monitoring well borings will be advanced using direct push and/or air rotary drilling equipment. The monitoring wells will be constructed of two-inch diameter schedule 40 polyvinyl chloride (PVC) screen and riser casing to the depths indicated above. The wells will be equipped with 0.02 slotted screen, sand filter packs, cement seals, and flush-mount well covers.
    - Shallow monitoring wells will be constructed with 15 feet of screen, such that the screen interval intersects the water table. Approximately 5 feet of screening will be located above the water table and 10 feet of screening will be located beneath the water table. Deeper wells will be constructed with 5 feet of screen, below the water table.

- The monitoring wells will be developed within one week following installation, using a surging/pumping method with a submersible pump. All purge water and soil drill cuttings will initially be classified as hazardous waste and will be containerized in drums onsite for subsequent waste characterization sampling and disposal. The monitoring wells will be surveyed by a licensed surveyor to calculate groundwater flow direction and rates.

4. Groundwater Sampling:

PSG will conduct pre- and post-remediation groundwater sampling events to establish baseline conditions and monitor the effectiveness of the RA. Groundwater monitoring will include sampling the existing monitoring wells (MW-1, MW-3, MW-4, MW-5, and MW-6) and the newly installed cluster and couplet wells prior to and approximately 60-days after completing the ISCR injections, per the recommendation of the manufacturer and on a quarterly basis thereafter. PSG notes that existing monitoring well MW-2 will be demolished during cVOC hotspot excavation at AOC-7. The residence time of the ISCR injections is a minimum of five years. PSG will conduct the groundwater sampling events in accordance with the procedures presented in the NYSDEC-approved RIWP for the Site. All wells will be sampled in accordance with the EPA low-flow groundwater purging and sampling procedures (revised September 19, 2017). Groundwater samples will be collected from the monitoring wells using the following methodology:

- A headspace reading will be collected using a GEM2000 or similar total gas analyzer;
- Depth to water will be measured using a water level indicator;
- Field parameters including pH, ORP, turbidity, specific conductivity, dissolved oxygen, temperature, and depth to water will be collected for approximately 15 to 30 minutes or until field parameters stabilize;
- Upon stabilization of field parameters, dedicated tubing will be used to obtain each groundwater sample from the approximate middle of the saturated screen zone;

- Sample containers will be placed into a chilled cooler and maintained at low temperatures (below 4-degress Celsius) for transport to the laboratory.
- Samples will be analyzed for total and dissolved methods via EPA Method 6020B/7470A chloride, sulfate, nitrate, and nitrite via EPA Method 300, total organic carbon via EPA Method 9060A, and dissolved gases via EPA Method 3810, and TCL VOCs via EPA Method 8260B.

5. Engineering Controls – Site Cover System: The site currently has an existing cover system consisting of asphalt, concrete, and building slabs. This cover system will be restored following the completion of the excavation outlined in remedy element 1, above, and will be visually inspected to ensure that the engineering control is functioning to prevent direct exposure to remaining contaminated soil. **Figure** 12 depict the different cover systems at the Site.

6. Engineering Controls – Sub-Slab Depressurization Systems: There are two existing SSDSs (one installed beneath 140 Stewart Avenue and one beneath 111 Gardner Avenue buildings). These systems were installed in May 2016 and June 2017, respectively, and have been operating continuously since then to mitigate the potential for vapor intrusion from the subsurface into the Site buildings. The SSDSs will continue to operate until permission is granted from NYSDEC to shut them down.

7. Institutional Controls – Environmental Easement: Proposed institutional controls include the recording of an EE to prevent future exposure to any remaining contamination at the Site; publication of a SMP for long-term management of residual contamination as required by the EE; and use restrictions limiting the use of the Site for commercial/industrial activities, restricting the use of groundwater, and restricting unauthorized excavation or disturbance of the cover system.

8. Institutional Controls – Site Management Plan: An SMP will be developed which will include, but not be limited to: an Institutional and Engineering Control Plan; and Excavation Work Plan; a Monitoring Plan; and an Operation and Maintenance Plan.

3.3 ZONING

According to the New York City Planning Commission Zoning Map and Land Use Map, the Site is located within a M3-1 zoning area. The entire Site is also located in the Manufacturing District (M3). M3 districts are designated for areas with heavy industries that generate noise, traffic or pollutants. Typical uses include power plants, solid waste transfer facilities and recycling plants, and fuel supply depots.

3.3.1 Surrounding Property Uses

The surrounding land uses include commercial and industrial properties. The southern Site border is an active railroad line, owned by the Long Island Railroad.

The current, intended, and reasonably anticipated future land use of the Site and its surroundings are compatible with the selected remedy.

3.3.2 Citizen Participation

The Citizen Participation Plan (CPP) outlines how members of the affected and interested public are provided with information about how NYSDEC will inform and involve them during the investigation and remediation of the Site. Information such as project contacts, document repositories, site contact lists, and community participation activities are provided in the CPP.

3.3.3 Environmental Justice Concerns

The Site is located in an Environmental Justice area. NYSDEC's Office of Environmental Justice acts as an advocate on behalf of these areas, which are disproportionately affected by environmental burdens.

3.3.4 Land Use Designations

There are no federal or state land use designations.

3.3.5 Population Growth Patterns

The population growth patterns and projections support the proposed land use.

3.3.6 Accessibility to Existing Infrastructure

Water and sewer service will be provided by NYC water and sewer utilities, and electric and natural gas services will be supplied by Consolidated Edison and National Grid, respectively. The property is nearby New York City subway and bus routes.

3.3.7 Proximity to Cultural Resources

The only City Landmark located within 0.5 mile of the Site is the Adrian and Ann Wyckoff Onderdonk House, which is located approximately 1,300 feet to the east of the Site on Onderdonk Avenue. The Stockholm Street Historic District is also located approximately 0.58 miles to the southeast of the Site. No State or National Register listed Sites are located within ½-mile of the Site. The proposed remedy is not anticipated to adversely impact these cultural resources.

3.3.8 Proximity to Natural Resources

Potential wetlands on or near the Site were evaluated by reviewing the National Wetlands Inventory and NYSDEC regulated wetlands. Based on these documents no mapped wetlands are listed on the Site.

The Site is located within an industrial area of Brooklyn. The future Site use is commercial with the majority of the site covered by buildings and asphalt pavement, providing little or no wildlife habitat or food value. As such, no unacceptable ecological risks are anticipated under the current or reasonably anticipated future use scenario. The RI demonstrated that constituents of concern were released into the environment at the Site; therefore, the Site can be considered to have been affected by one or more discharges or spill events. The NYSDEC's decision key contained in Appendix 3C of DER-10 was utilized to evaluate whether or not performance of a Fish and Wildlife Resources Impact Analysis was needed. The Site currently contains no ecological resources. The NYSDEC's Environmental Resources Management Resource Mapper indicates that the Site and adjacent properties are not located in any state regulated freshwater

wetlands, water bodies, significant natural communities, rare plants and rare animal areas, or unique geological features areas. Evidence of onsite ecological resources was not observed during the RI. There is no evidence that contamination present at the Site has the potential to migrate to and impact any potential offsite ecological resources. Therefore, a Fish and Wildlife Resources Impact Analysis was not needed based on NYSDEC guidance.

3.3.9 Off-Site Groundwater Impacts

Municipal water supply wells are not present in this area of New York City; therefore, groundwater from the Site cannot affect municipal water supply wells or recharge areas.

3.3.10 Proximity to Floodplains

According to the National Flood Insurance Rate map for the City of New York published by the Federal Emergency Management (FEMA) (Community Panel No. 3604970208F, effective date September 5, 2007), the Site is located in Zone X, which is designated for areas determined to be outside the 0.2% annual chance of flood and in an area of minimal flood hazard.

3.3.11 Geography and Geology of the Site

The Site geography and geology is described in Section 2.2 of this RAWP.

3.3.12 Current Institutional Controls.

There are currently no institutional controls in place at the Site.

4.0 REMEDIAL ACTION PROGRAM

4.1 GOVERNING DOCUMENTS

The primary documents governing the remedial action are summarized in this section. Where referenced, copies of the full plan are provided in the appendices.

4.1.1 Standards, Criteria and Guidance Applicable to Remedial Actions

The following SCGs are applicable to the project and will be used to determine whether the RAOs have been met:

- Soil – 6 NYCRR Part 375 Soil Cleanup Objectives (December 2006); 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes; 6 NYCRR Part 376 - Land Disposal Restrictions; and 6 NYCRR Part 360 - Solid Waste Management Facilities.
- Groundwater – 6 NYCRR Parts 700-706 - Water Quality Standards (June 1998), and TOGS 1.1.1 AWQSGV and Groundwater Effluent Limitations.

In addition, the following SCGs are applicable to the remedial program at the Site:

- NYSDEC DER-10 – Technical Guidance for Site Investigation and Remediation (May 2010);
- NYSDOH Generic Community Air Monitoring Plan (CAMP);
- NYSDEC DER-23 – Citizen Participation Handbook for Remedial Programs (January 2010);
- 6 NYCRR Part 372 – Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities (November 1998);
- 6 NYCRR Subpart 374-1 – Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities (November 1998);
- 6 NYCRR Subpart 374-3 – Standards for Universal Waste (November 1998);
- 6 NYCRR Part 375 – Environmental Remediation Programs (December 2006);
- 29 CFR Part 1910.120 – Hazardous Waste Operations and Emergency Response;
- 40 CFR Part 144 – Underground Injection Control Program;

- DAR-1 (formerly Air Guide 1) - Guidelines for the Control of Toxic Ambient Air Contaminants (1997);
- NYSDEC DER-31 – Green Remediation (2010); and
- CP-43 – Commissioner Policy on Groundwater Monitoring Well Decommissioning (December 2009)

4.1.1.1 Green and Sustainable Remediation and Climate Resiliency

PSG will design and implement green/sustainable elements to be included within the remedy to achieve BMPs which will reduce the environmental footprint of the remedy. The core elements of the BMPs of green remediation are related to energy, air & atmosphere, water, land & ecosystems, and materials & waste. The green/sustainable elements proposed by PSG will be less disruptive to the environment, generate less waste, increase reuse and recycling, and emit fewer pollutants to the atmosphere. A list of proposed green/sustainable elements is as follows:

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- The Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals;
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development; and
- Additionally, to incorporate green remediation principles and techniques to the extent feasible in the future development at this Site, any future on-site buildings shall be constructed, at a minimum, to meet the 2020 Energy Conservation Construction Code of

New York (or most recent edition) to improve energy efficiency as an element of construction.

In addition to the above, PSG will prepare a Green Remediation Implementation Plan to detail procedures and tracking of these items and complete a Climate Screening of the Site to identify potential changes in climate hazards. If the screening identifies potential exposure to climate hazards, a Climate Vulnerability Assessment (CVA) will need to be conducted and will identify adaptation measures to account for projected climate hazard exposures.

4.1.2 Site Specific Health & Safety Plan

All remedial work performed under this plan will be in compliance with governmental requirements, including Site and worker safety requirements mandated by the Federal Occupational Safety and Health Administration (OSHA).

The Volunteer and associated parties preparing the remedial documents submitted to the State and those performing the construction work, are completely responsible for the preparation of an appropriate Health and Safety Plan and for the appropriate performance of work according to that plan and applicable laws.

The HASP and requirements defined in this RAWP pertain to all remedial and invasive work performed at the Site until the issuance of a Certificate of Completion. The Site Safety Coordinator will be David Lent, P.G.

The Remedial Engineer (RE) prepared a Site-specific Construction Health and Safety Plan (CHASP), which is included as **Appendix H**. The CHASP will address Site-specific contaminants and will apply only to remedial and construction-related work on-Site. Contractors operating on the Site are required to adhere to their own plans that, at a minimum, meet the requirements of the CHASP. Remedial work performed under this plan will be in compliance with governmental requirements, including Site and worker safety requirements mandated by OSHA. The CHASP provides a mechanism for establishing on-Site safe working conditions, safety organization, procedures, and PPE requirements during implementation of the remedy. The CHASP meets the

requirements of 29 CFR 1910 and 29 CFR 1926 (which includes 29 CFR 1910.120 and 29 CFR 1926.65). The CHASP includes, but is not limited to, the following components:

- Organization and identification of key personnel
- Training requirements
- Medical surveillance requirements
- List of Site hazards
- Excavation safety
- Work zone descriptions
- Personal safety equipment and protective clothing requirements
- Decontamination requirements
- Standard operating procedures
- Protective measure plan
- CAMP
- Safety Data Sheets

The Volunteer and associated parties preparing the remedial documents submitted to the State and those performing the construction work are responsible for the preparation of an appropriate CHASP and for the appropriate performance of work according to that plan and applicable laws.

The CHASP and requirements defined in this RAWP pertain to all remedial and invasive work performed at the Site until the issuance of a Certificate of Completion. The PSG Site Safety Coordinator will be the onsite field technician. If required for Site workers, confined space entry will comply with all OSHA requirements to address the potential risk posed by combustible and toxic gasses. PSG personnel will not enter confined spaces.

4.1.3 Quality Assurance Project Plan (QAPP)

The RE has prepared a Quality Assurance Project Plan (QAPP) that describes the quality control components that will ensure that the proposed remedy accomplishes the remedial goals, remedial action objectives, and is completed in accordance with the design specifications. The NYSDEC-approved QAPP is provided as **Appendix I** and includes:

- Responsibilities of key personnel and their organizations for the proposed remedy;
- Qualifications of the quality assurance officer;
- Proposed sampling requirements including methodologies, quantity, volume, locations, frequency, acceptance, and rejection criteria and end-point sampling; and
- Description of the reporting requirements for quality assurance activities including weekly quality assurance review reports, periodic quality assurance and quality control audits, and other report and data submissions.

4.1.4 Soil/Materials Management Plan (SMMP)

The RE has prepared a Soil/Materials Management Plan (SMMP), which includes detailed plans for managing soil/materials that are disturbed at the Site, including excavation, handling, storage, transport, and disposal. It also includes controls that will be applied to these efforts to assure effective, nuisance-free performance in compliance with applicable federal, state, and local laws and regulations. The SMMP is further described in Section 5.4.

4.1.5 Community Air Monitoring Plan (CAMP)

A CAMP was prepared for the Site in accordance with the NYSDOH Generic CAMP (**Appendix J**) and is further discussed in Section 5.3.12. PSG notes that, if any ground intrusive or soil handling activities will be conducted within 20 feet of an occupied structure or receptors, then a Special Requirements CAMP will be required and provided to NYSDOH for review and approval.

4.1.6 Contractors Site Operations Plan (SOP)

The RE will review all plans and submittals for this remedial project, including contractor and sub-contractor document submittals, and confirms that they are in compliance with this RAWP. All remedial documents will be submitted to NYSDEC and NYSDOH in a timely manner.

4.1.7 Citizen Participation Plan

A certification of mailing will be sent by the Volunteer to the NYSDEC project manager following the distribution of all Fact Sheets and notices that includes: (1) certification that the Fact Sheets were mailed, (2) the date they were mailed; (3) a copy of the Fact Sheet, (4) a list of recipients (contact list); and (5) a statement that the repository was inspected, including the date of inspection, and that it contained all of applicable project documents.

No changes will be made to approved Fact Sheets authorized for release by NYSDEC without written consent of the NYSDEC. No other information, such as brochures and flyers, will be included with the Fact Sheet mailing.

The approved Citizen Participation Plan for this project is attached in **Appendix K**.

Document repositories have been established at the following locations and contain all applicable project documents:

Bushwick Library
340 Bushwick Avenue, Brooklyn, New York 11206
(718) 602-1348
10:00 AM to 6:00 PM

Brooklyn Community Board 1
435 Grana Avenue, Brooklyn, New York 11211
(718) 389-0009
9:00 AM to 5:00 PM

Additionally, an electronic repository is available through DECinfo Locator:

Index of /data/DecDocs/C224258

4.2 GENERAL REMEDIAL CONSTRUCTION INFORMATION

4.2.1 Project Organization

Key personnel involved in the remedial action will include the following:

- Project Engineer: Kristine McCarthy MacWilliams, P.E.
- Project Manager: David Lent, P.G.
- Environmental Health and Safety Officer and Field Operations Leader: Ally Hassler, Project Geologist
- Field Staff: Robert Hazard, Project Scientist; Peter Cerny, Project Scientist
- DUSR Preparer: Donald Anné, Senior Chemist, Alpha Geoscience

Resumes of key personnel involved in the remedial action are included in **Appendix L**.

4.2.2 Remedial Engineer

The RE for this project will be Kristine McCarthy MacWilliams. The RE is a registered professional engineer licensed by the State of New York. The RE will have primary direct responsibility for implementation of the remedial program for the Site. The RE will certify in the Final Engineering Report (FER) that the remedial activities were observed by qualified environmental professionals under her supervision and that the remediation requirements set forth in the RAWP and any other relevant provisions of ECL 27-1419 have been achieved in full conformance with RAWP.

The RE will coordinate the work of other contractors and subcontractors involved in all aspects of remedial construction, including soil excavation, stockpiling, characterization, removal and disposal, air monitoring, emergency spill response services, import of back fill material, and management of waste transport and disposal. The RE will be responsible for all appropriate communication with NYSDEC and NYSDOH.

The RE will review all pre-remedial plans submitted by contractors for compliance with this RAWP and will certify compliance in the FER.

4.2.3 Remedial Action Construction Schedule

A schedule for performance of the remedial work is provided as **Table 10**. The schedule is broken down into remedial action elements based on elapsed time from approval by NYSDEC. A revised schedule will follow with a submission to NYSDEC of actual dates after the approval has been provided.

4.2.4 Work Hours

The hours for operation of remedial construction will conform to the New York City Department of Buildings construction code requirements or according to specific variances issued by that agency. NYSDEC will be notified by the Volunteer of any variances issued by the Department of Buildings.

4.2.5 Site Security

Site security will be maintained by utilizing and maintaining the existing fence surrounding the property. The fence will be maintained throughout the project and access gates will be maintained during daily operations and closed and locked at other times. Remedial activities will begin when the venue is closed to the general public either before or after the summer entertainment/music season is completed.

4.2.6 Traffic Control

Drivers of trucks leaving the Site with soil/fill will be instructed to proceed without stopping in the vicinity of the Site to prevent neighborhood impacts.

4.2.7 Contingency Plan

If underground tanks or other previously unidentified contaminant sources are found during on-Site remedial excavation or development related construction, sampling will be performed on

product, sediment, and surrounding soils, etc. Chemical analytical work will be for full scan parameters (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs, 1,4-dioxane, and PFAS).

Identification of unknown or unexpected contaminated media identified by screening during invasive Site work will be promptly communicated by phone to NYSDEC's Project Manager. These findings will be also included in daily and periodic electronic media reports.

4.2.8 Worker Training and Monitoring

This should include HAZWOPER, site safety training and medical monitoring for Site workers.

4.2.9 Agency Approvals

No permits or governmental approvals, except this RAWP, will be required for remedy elements.

4.2.11 Pre-Construction Meeting with NYSDEC

This meeting must take place prior to the start of major construction activities and be attended by the Volunteer, RE, consultant, and applicable contractor(s).

4.2.12 Emergency Contact Information

An emergency contact sheet with names and phone numbers is included in **Table 9**. That document will define the specific project contacts for use by NYSDEC and NYSDOH in the case of a day or night emergency.

4.3 SITE PREPARATION

4.3.1 Mobilization

Mobilization will include the delivery of equipment and materials to the Site. Site workers will receive Site orientation and training in accordance with the Site-specific HASP, CAMP, and

established policies and procedures to be followed during the implementation of remedial activities. The remediation contractor and associated subcontractors will each receive a copy of the RAWP, HASP, and CAMP and will be briefed on their contents.

4.3.2 Erosion and Sedimentation Controls

Erosion and sediment controls will be implemented as necessary. Best Management Practices (BMP) for soil erosion will be selected to minimize erosion and sedimentation off Site from the start of the remediation to the completion of development. The existing site cover at the Site, which will be part of the final engineering control, will be protected from potential erosion and sediment via physical barriers, including temporary fencing and polyethylene sheeting. If impacted soils are released to the proposed cover, they will be swept off the cover and placed on a polyethylene sheeting for future characterization and disposal. The cover will then be power-washed and visually inspected to ensure no residual soils remain. Any on-site drains or drywells will be properly sealed and covered. A Stormwater Pollution Prevention Plan (SWPPP) is not necessary because the project will disturb less than one acre, and stormwater discharge, if required, will be to a combined sewer in accordance with the New York City generic sewer discharge permit.

4.3.3 Utility Marker and Easements Layout

The Volunteer and its contractors will be solely responsible for the identification of utilities that might be affected by work under the RAWP and implementation of all required, appropriate, or necessary health and safety measures during performance of work under this RAWP. The Volunteer and its contractors will be solely responsible for safe execution of all invasive and other work performed under this RAWP. The Volunteer and its contractors will obtain any local, State or Federal permits or approvals pertinent to such work that may be required to perform work under this RAWP. PSG understands that approval of this RAWP by NYSDEC does not constitute satisfaction of these requirements.

The presence of utilities and easements on the Site has been investigated by PSG. It has been determined that no risk or impediment to the planned work under this RAWP is posed by utilities or easements on the Site.

4.3.4 Stabilized Construction Entrance(s)

A stabilized construction entrance will be established between the truck wash and stone-based egress path to ensure that trucks do not get re-contaminated prior to departure from the Site.

4.3.5 Equipment and Material Staging

Equipment and materials staging areas will be designated during the remediation activities, in coordination with the facility manager to facilitate remediation work and prevent cross-contamination.

4.3.6 Decontamination Area

A temporary decontamination area lined with polyethylene sheeting will be constructed for steam- cleaning or washing excavation and drilling equipment, when appropriate. The location of the decontamination area will be coordinated with the facility manager. At a minimum, the decontamination pad will have a 30-mil low-permeability liner and be bermed and sloped to a collection sump to contain and collect fluids, and have side walls to mitigate, to the extent practicable, errant overspray, especially when decontaminating large equipment.

4.3.7 Site Fencing

Site security will be maintained by utilizing and maintaining the existing eight-foot-high plywood construction fence surrounding the property. The fence will be maintained throughout the project and the vehicle access gate will be kept closed during daily operations and closed and locked at other times. In addition, safety fencing will be installed around remedial work areas, as needed, to protect facility employees and visitors.

4.3.8 Demobilization

Following the completion of remedial activities at the Site, equipment and remedial structures will be decontaminated and dismantled and removed from the Site. Wastes generated during remedial activities (i.e., polyethylene sheeting and investigation derived waste (IDW)) will be properly disposed.

4.4 REPORTING

All daily and monthly Reports will be included in the Final Engineering Report.

4.4.1 Daily Reports

Daily reports will be submitted to NYSDEC and NYSDOH Project Managers by the end of each day following the reporting period and will include:

- An update of progress made during the reporting day;
- Locations of work and quantities of material imported and exported from the Site;
- References to alpha-numeric map for Site activities;
- A summary of any and all complaints with relevant details (names, phone numbers);
- A summary of CAMP finding, including excursions; and
- An explanation of notable Site conditions.

Daily reports are not intended to be the mode of communication for notification to the NYSDEC of emergencies (accident, spill), requests for changes to the RAWP or other sensitive or time critical information. However, such conditions will also be included in the daily reports. Emergency conditions and changes to the RAWP will be addressed directly to NYSDEC Project Manager via personal communication.

Daily Reports will include a description of daily activities keyed to an alpha-numeric map for the Site that identifies work areas. These reports will include a summary of air sampling results, odor and dust problems and corrective actions, and all complaints received from the public.

A Site map that shows a predefined alpha-numeric grid for use in identifying locations described in reports submitted to NYSDEC will be included in the daily report.

The NYSDEC assigned project number will appear on all reports.

PSG notes that the NYSDEC and NYSDOH will be immediately notified of any CAMP exceedances, including measures on how the CAMP exceedances were addressed.

4.4.2 Monthly Reports

Monthly reports will be submitted to NYSDEC and NYSDOH Project Managers within one week following the end of the month of the reporting period and will include:

- Activities relative to the Site during the previous reporting period and those anticipated for the next reporting period, including a quantitative presentation of work performed (i.e., tons of material exported and imported, etc.);
- Description of approved activity modifications, including changes of work scope and/or schedule;
- Sampling results received following internal data review and validation, as applicable; and,
- An update of the remedial schedule including the percentage of project completion, unresolved delays encountered or anticipated that may affect the future schedule, and efforts made to mitigate such delays.

4.4.3 Other Reporting

Photographs will be taken of all remedial activities and submitted to NYSDEC in digital (JPEG) format. Photos will illustrate all remedial program elements and will be of acceptable quality. Representative photos of the Site prior to any remedial actions will be provided. Representative photos will be provided of each contaminant source, source area and Site structures before, during and after remediation. Photos will be included in the daily reports as needed, and a comprehensive collection of photos will be included in the Final Engineering Report.

Progress with respect to green and sustainable remediation metrics will be tracked during implementation of the remedial action and reported in the FER, including a comparison to the goals established during the remedial program. Regular updates to the metrics used via the EPA SEFA, or other approved method will be included.

Job-site record keeping for all remedial work will be appropriately documented. These records will be maintained on-Site at all times during the project and be available for inspection by NYSDEC and NYSDOH staff.

4.4.4 Complaint Management Plan

Complaints from the public regarding nuisance or other Site conditions will be reported directly to the NYSDEC project manager and included in the daily reports.

4.4.5 Deviations from the Remedial Action Work Plan

PSG will notify the NYSDEC and NYSDOH project managers and request approval for deviations from the approved RAWP. This notification will be provided via email correspondence, and at a minimum, will include a description of RAWP deviation, reasons for deviating from the approved RAWP, and the effect of the deviations on the overall remedy.

5.0 REMEDIAL ACTION: MATERIAL REMOVED FROM THE SITE

PSG will conduct remedial excavations at AOCs 7 and AOC-10 to remove cVOC-impacted soils above the water table in order to prevent further impacts to Site groundwater. **Figure 10** depicts the estimated limits of the remedial excavations at each AOC.

The remedial excavations are expected to encompass an area approximately 660 sf at AOC-7 and 330 sf at AOC-10 and extend from the ground surface to the water table, unless the results of post-excavation soil sampling indicate cVOC concentrations in remaining soils are in compliance with the NYSDEC SCO for the protection of groundwater. The maximum anticipated depth of the remedial excavations is 8 to 10 ft bgs. Approximately 350 cubic yards of material will be removed from the Site.

Excavated soil will be staged on-Site in roll-offs, pending disposal to an approved off-site disposal facility. PSG obtained a Contained-In Determination from the NYSDEC on November 20, 2024 which clarified that soil excavated from AOC-10 and soils excavated from AOC-7 except the soil within the area delineated to the west by boring 7-B2; to the south by boring 7-1S; to the north by 7-B1N; and to the east by 7-B1E did not have to be managed as hazardous waste. The

Contained-In Determination further stated that a contained-in request could be made for soils from borings 7-B1W, 7-B1WW, and 7B1 after the area was excavated and confirmatory samples were received; until that time, soils from these borings would be characterized as hazardous waste. An estimated 321 cubic yards of non-hazardous soil and up to 22 cubic yards of hazardous soil is expected to be excavated and removed from the Site..

Soil and materials management on-Site and off-Site will be conducted in accordance with the Soil Management Plan as described below.

5.1 SOIL CLEANUP OBJECTIVES

The following SCOs are proposed for the Site:

- cVOC-impacted soils at AOCs 7 and 10 will be remediated to the PGWSCOs.
- For all other contaminants, the CUSCOs are applicable. A Track 4 remedy is proposed for soils using site-specific concentrations identified during the RI, which are listed in **Table 4**. Spider maps that depict the exceedances of CUSCOs detected during the RI are included as **Figures 7.1 to 7.4, Figure 8, and Figure 9.1**.

5.2 REMEDIAL PERFORMANCE EVALUATION – POST-EXCAVATION END-POINT SAMPLING

Post-excavation confirmation samples at AOCs 7 and 10 will be collected to confirm that the PWSCOs have been achieved. Post-excavation confirmation soil samples will be collected in accordance with the QAPP. Post-excavation bottom soil samples will be collected at frequency of one sample every 900 sq. ft. as per DER-10, and sidewall samples on each side for every 30 feet of sidewall.

5.2.1 End-Point Sampling Frequency

Hot spots: As hot spots are encountered during excavation, the following end-point sampling protocol will be followed:

- Hot-spot excavations will have a minimum of one bottom sample and, a sidewall sample collected for every 30 linear feet of sidewall from along applicable excavation boundaries, with a minimum of one sample collected from each sidewall.
- For sampling of volatile organics, bottom samples will be taken within 24 hours of excavation and will be taken from the three to six-inch interval below the excavation floor. Samples taken after 24 hours will be taken at six to twelve inches.
- For contaminated soil removal, post-remediation soil samples for laboratory analysis will be collected immediately after contaminated soil removal. If the excavation is enlarged horizontally, additional soil samples will be required.

Post-remediation sample locations and depth will be biased towards the areas and depths of highest contamination identified during previous sampling episodes unless field indicators such as field instrument measurements or visual contamination identified during the remedial action indicate that other locations and depths may be more heavily contaminated. Post-excavation confirmation samples will be biased toward locations and depths of the highest expected contamination. All endpoint sampling will consist of grab samples using EnCore samplers.

NYSDOH ELAP certified labs will be used for confirmation soil sample analyses. Lab results for confirmation soil sample analyses will be reported in the FER. The FER will provide a tabular and map summary of confirmation soil sample results. Confirmation soil samples will be analyzed for analytes utilizing the following methodology:

- TCL VOCs by EPA Method 8260.
- SVOCs by EPA Method 8270.
- TAL metals by EPA Method 6010A/7470A.
- PCBs and pesticides by EPA Method 8082.
- 1,4-dioxane by EPA Method 8270 SIM.
- PFAS by EPA Method 1633.

If either light non-aqueous phase liquid (LNAPL) and/or DNAPL are detected, appropriate samples will be collected for characterization and fingerprint analysis and required regulatory reporting (i.e., spills hotline) will be performed.

5.2.2 Methodology

All post-excavation confirmation soil samples will be collected at the identified locations when the limits of the remediation excavation have been reached. Confirmation soil samples will be collected from the zero to six-inch interval at the excavation floor. Samples taken after 24 hours will be taken at six to twelve inches.

- Samples will be collected utilizing a properly decontaminated stainless steel hand auger, trowel, or equivalent. Samples collected for VOC analysis will be conducted by collecting a grab sample of soil within 24 hours of excavation exposure and placing it into laboratory supplied glassware. Confirmation soil samples will be submitted for laboratory analyses under standard chain of custody protocol to an NYSDOH ELAP accredited laboratory to be determined. Samples will be analyzed for TCL VOCs via EPA Method 8260, SVOCs by EPA Method 8270, TAL metals by EPA Method 6010A/7470A, PCBs and pesticides by EPA Method 8082, 1,4-dioxane by EPA Method 8270 SIM, and PFAS by EPA Method 1633.

5.2.3 Reporting of Results

Data collected during the field investigation will be tabulated and reviewed. The criteria used to identify and quantify the analytes will be those specified for the applicable methods in the EPA SW-846 and subsequent updates. The data package provided by the laboratory will contain items specified in the USEPA SW-846 appropriate for the analyses to be performed and be reported in standard format. Data will also be submitted to NYSDEC's Environmental Information Management System in the standardized electronic data deliverable format. The FER will provide a tabular and map summary of post-excavation confirmation soil sampling results and exceedances of the PGWSCOs.

5.2.4 QA/QC

QA/QC procedures will be used to provide performance information with regard to accuracy, precision, sensitivity, representation, completeness, and comparability associated with the sampling and analysis for this investigation. Field QA/QC procedures will be used (1) to document that samples are representative of actual conditions at the Site and (2) identify possible cross-contamination from field activities or sample transit. Laboratory QA/QC procedures and analyses will be used to demonstrate whether analytical results have been biased either by interfering compounds in the sample matrix, or by laboratory techniques that may have introduced systematic or random errors to the analytical process. All site investigation activities will be conducted in compliance with the Technical Guidance for Site Investigation and Remediation, as per NYS DEC DER-10. A summary of the field and laboratory QA/QC procedures is provided below.

5.2.4.1 Direct Push Drilling

The following procedures will be implemented as QA/QC procedures for boring installation and sampling:

- Disposable PVC Macro Core liners, or similar, will be utilized for the entire length of all boring locations to prevent cross-contamination of soil.
- If drilling in loose or non-cohesive soils, a core catcher will be used to ensure the full soil section is recovered.
- If drilling is in tight soils, a spacer ring or extended shank cutting shoe will be used to ensure full soil recovery.

A disposal slotted PVC screen will be utilized to maintain the integrity of the boring and collect groundwater samples.

5.2.4.2 Field QA/QC

Field QA/QC included the following procedures:

- Calibration of field equipment, including PID, on a daily basis,

- Analysis of trip blank (VOCs only) and duplicate samples,
- Use of dedicated and/or disposal field sampling equipment,
- Proper sampling handling and preservation,
- Proper sample chain of custody documentation, and
- Completion of report logs.

The above procedures will be executed as follows:

- Duplicate samples will be collected at a rate of 1 duplicate per 20 samples to evaluate field sampling precision or reproducibility of measurements of the same parameter under the given set of conditions;
- Matrix Spike (MS)/Matrix Spike Duplicate (MSD) samples will be collected at a rate of 1 duplicate per 20 samples to evaluate the effect of the matrix on sample results;
- Disposable sampling equipment, including acetate sleeves, latex gloves, and disposable bailers (or sample tubing), were used to minimize cross-contamination between samples;
- For each of the parameters analyzed, a sufficient sample volume will be collected to adhere to the specific analytical protocol, and provide sufficient sample for reanalysis if necessary;
- Because plasticizers and other organic compounds inherent in plastic containers may contaminate samples requiring organic analysis, samples will be collected in glass containers, with the exception of the nitrate-preserved groundwater sample for metals analysis;
- Appropriate sample preservation techniques, including cold temperature storage at 4º C, will be utilized to ensure that the analytical parameters concentrations do not change between the time of sample collection and analysis; and
- Samples will be analyzed prior to the expiration of the respective holding time for each analytical parameter to ensure the integrity of the analytical result.

5.2.4.3 Sample Custody

Sample handling in the field will conform to appropriate sample custody procedures. Field custody procedures included proper sample identification, chain-of-custody forms, and packaging and shipping procedures. Sample labels will be attached to all sampling bottles before field activities began to ensure proper sample identification. Each label will identify the site and sample location. Styrofoam or bubble wrap will be used to absorb shock and prevent breakage of sample containers. Ice or ice packs will be placed in between the plastic bags for sample preservation purposes.

After each sample is collected and appropriately identified, the following information will be entered into the chain-of-custody form:

- Site name and address,
- Sampler(s)' name(s) and signature(s);
- Names and signatures of persons involved in the chain of possession of samples;
- Sample number;
- Number of containers;
- Sample location;
- Date and time of collection;
- Type of sample, sample matrix and analyses requested;
- Preservation used (if any); and
- Any pertinent field data collected (pH, temperature, conductivity, Dissolved Oxygen [DO]).

The sampler signed and dated the "Relinquished" blank space prior to removing one copy of the custody form and sealing the remaining copies of the form in a Ziploc plastic bag taped to the underside of the sample cooler lid. The sample cooler will be sealed with tape prior to delivery or shipment to the laboratory.

Each set of samples will be analyzed concurrently with calibration standards, method blanks, MS/MSD or laboratory duplicates, and QC check samples (if required by the protocol). MS/MSD

samples, as applicable, will be designated by the field personnel. QA/QC protocols are further detailed in the QAPP included as **Appendix I.**

5.2.4.4 Report Logs

Field logs and borings logs will be completed during the course of this investigation. A field log will be completed on a daily basis which described all field activities including:

- Project number, name, manager, and address;
- The date and time;
- The weather conditions;
- On-site personnel and associated affiliations;
- Description of field activities; and
- Pertinent sample collection information including sample identification numbers, description of samples, location of sampling points, number of samples taken, method of sample collection and any factors that may affect its quality, time of sample collection, name of collector, and field screening results.

A boring/monitoring well log will be completed for each boring/monitoring well and included the following information:

- Project number, name, manager, and location;
- The date and time;
- Drilling company and method used;
- Boring/Well number;
- Total boring/well depth and water table depths; and
- Pertinent soil sample information including sample number, interval, depth, amount recovered, color, composition, percent moisture, visual and olfactory observations of contamination, and PID readings.

5.2.4.5 Laboratory QA/QC

An ELAP-certified laboratory will be used for all sample analyses. The laboratory will follow the following QA/QC protocols. All samples will be delivered to the laboratory within 24 hours of sample collection. Samples will be received by laboratory personnel, who will inspect the sample cooler(s) to check the integrity of the custody seals. The cooler(s) will then be opened, the samples unpackaged, and the information on the chain-of-custody form examined. If the shipped samples match those described on the chain-of-custody form, the laboratory sample custodian will sign and dated the form on the next "Received" blank and assume responsibility for the samples. If problems were noted with the sample shipment, the laboratory custodian will sign the form and record problems in the "Remarks" box. The custodian will then immediately notify the Project Manager so appropriate follow-up steps can be implemented on a timely basis.

A record of the information detailing the handling of a particular sample through each stage of analysis will be maintained by the laboratory. The record will include:

- Job reference, sample matrix, sample number, and date sampled;
- Date and time received by laboratory, holding conditions, and analytical parameters;
- Extraction date, time, and extractor's initials (if applicable), analysis date, time, and analyst's initials; and
- QA batch number, date reviewed, and reviewer's initials.

5.2.5 Data Usability Summary Report

Per the requirements of section 2.2 of DER-10 a DUSR will be prepared by a qualified data validator who is independent of the laboratory providing the sample analysis. The DUSR will evaluate the data package provided by the laboratory to determine if they ae meet the project quality parameters and represent usable results.

As per requirement of the BCA, all data will be submitted in the NYS EQuiS database. Electronic Data Deliverables (EDDs) will be submitted for all post-excavation soil samples. All RI data were previously submitted in EQuiS. Data collected prior to the Site's enrollment in the BCP were not submitted in EQuis.

5.2.6 Reporting of End-Point Data in FER

Data collected during the field investigation will be tabulated and reviewed. The criteria used to identify and quantify the analytes will be those specified for the applicable methods in the USEPA SW-846 and subsequent updates. The data package provided by the laboratory will contain items specified in the USEPA SW-846 appropriate for the analyses to be performed and be reported in standard format. Data will also be submitted to NYSDEC's Environmental Information Management System in the standardized electronic data deliverable format. The FER will provide a tabular and map summary of post-excavation confirmation soil sampling results and exceedances of UUSCOs and CUSCOs.

Chemical labs used for all end-point sample results and contingency sampling will be NYSDOH ELAP certified.

End point sampling, including bottom and side-wall sampling, will be performed in accordance with DER-10 sample frequency requirements. The FER will provide a tabular and map summary of all end-point sample results and exceedances of SCOs.

5.3 Soil/Materials Management Plan

5.3.1 Soil Screening Methods

Visual, olfactory, and PID soil screening and assessment will be performed during the scope of work for the remedy. A PSG geologist/geotechnical engineer will supervise the site work under the supervision of the RE.

Visual, olfactory and PID soil screening and assessment will be performed by a QEP or experienced field geologist under the direction of the RE during all remedial and development excavations into known or potentially contaminated material. Soil screening will be performed regardless of when the invasive work is done and will include all excavation and invasive work performed during the remedy.

All primary contaminant sources (including but not limited to tanks and hot spots) identified during RI and remedial action will be surveyed by a surveyor licensed to practice in the State of New York. This information will be provided on maps in the Final Engineering Report.

Screening will be performed by QEPs. Resumes will be provided for all personnel responsible for field screening (i.e. those representing the RE) of invasive work for unknown contaminant sources during remediation and development work.

5.3.2 Stockpile Methods

Soil excavated during the hot-spot excavation activities will be segregated (unsaturated versus saturated). Excavated soils will be temporarily stockpiled on, at minimum, double layers of 6-mil minimum poly-sheeting, will be kept covered at all times (except when material is being added or removed) with appropriately anchored polyethylene sheeting surrounded by hay bales, and will be routinely inspected. Broken or ripped sheeting will be promptly replaced. Roll-off containers will be utilized for excavated materials. All roll-off containers will be lined and covered at the end of each workday. Stockpile activities will be compliant with applicable laws and regulations. Stockpiles of excavated soils and other materials will be stored in a secured location onsite.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in the daily field logs and maintained at the Site and available for inspection by NYSDEC.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Absorbent booms will be used as needed near catch basins, surface waters and other discharge points.

Water will be available on-site at suitable supply and pressure for use in dust control.

PSG notes that no stockpiles will be maintained at the Site while the venue is occupied for a public event.

5.3.3 Materials Excavation and Load Out

The Remedial Engineer or a qualified environmental professional under his/her supervision, overseeing the soil removal will:

- Oversee all soil excavation activities completed onsite;
- Oversee the load-out of excavated material, if required;
- Ensure that utilities and easements that may be present on the Site have been investigated and that any identified risks from work proposed under this plan are properly addressed by appropriate parties;
- Ensure that any loaded outbound trucks are inspected and cleaned, if necessary, before leaving the Site; and
- Ensure that all egress points for truck and equipment transport from the Site will be kept clean of Site-derived materials during Site work.

During the excavation and loading of soil, the following specific procedures shall be implemented:

- All trucks will be loaded in a manner to prevent significant dust generation and to prevent spillage of soil on and around the trucks and will be secured with tight-fitting covers. Loose-fitting canvas or mesh truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.
- Locations where vehicles exit the Site will be inspected daily for evidence of soil tracking off premises. If significant soil tracking off-Site is observed or if soil accumulation is observed during truck inspection after loading, pressure washing of the trucks prior to exiting the loading pad shall be conducted to remove residual soil to the extent practicable.

Street sweeping is not a viable option for cleaning contaminated soil tracking on asphalt surfaces as the dust generation is too significant and will cause unnecessary air monitoring detections.

The RE or a QEP under his/her supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The Volunteer and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the Site has been investigated by the RE. It has been determined that no risk or impediment to the planned work under this RAWP is posed by utilities or easements on the Site.

Loaded vehicles leaving the Site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

Vehicles leaving the Site will not be overloaded. The RE's representative will make reasonable efforts to ensure that vehicles are not loaded beyond their NYSDOT weight rating and that all material is secured beneath the truck bed cover.

A truck wash will be operated on-Site. The RE will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the Site until the remedial action is complete.

Locations where vehicles enter or exit the Site shall be inspected daily for evidence of off-Site sediment tracking.

The RE will be responsible for ensuring that all egress points for truck and equipment transport from the Site will be clean of dirt and other materials derived from the Site during Site remediation and development. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site -derived materials.

The Volunteer and associated parties preparing the remedial documents submitted to the State, and parties performing this work, are completely responsible for the safe performance of all invasive work, the structural integrity of excavations, and for structures that may be affected by excavations (such as building foundations and bridge footings).

Each hot spot and structure to be remediated (USTs, vaults and associated piping, transformers, etc.) will be removed and end-point remedial performance sampling completed before excavations related to Site development commence proximal to the hot spot or structure.

Development-related grading cuts and fills will not be performed without NYSDEC approval and will not interfere with, or otherwise impair or compromise, the performance of remediation required by this plan.

5.3.4 Materials Transport Off-Site

Loaded vehicles leaving the Site will comply with all applicable materials transportation requirements (including appropriate covering, manifests, and placards) in accordance with applicable laws and regulations, including use of licensed haulers in accordance with local, state, and federal laws. If loads contain wet material capable of causing leakage from trucks, truck liners will be used. Queuing of trucks will be performed on-Site, when possible, in order to minimize off-Site disturbance. Off-Site queuing will be minimized; if needed, off-site queuing will be completed in a safe manner, utilizing police traffic control if needed/required.

Outbound truck transport routes will be planned before loading activities with a route that takes into account the following factors: (a) limiting transport through residential areas and past sensitive sites; (b) use of mapped truck routes; (c) minimizing off-Site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport. To the extent possible, all trucks loaded with Site materials will travel from the Site using these truck routes. Trucks will not stop or idle in local neighborhoods after leaving the project Site.

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project Site. Egress points for truck and equipment transport from the Site will be kept clean of dirt and other materials during Site remediation and development. Queuing of trucks will be performed on-Site in order to minimize off-Site disturbance.

Material transported by trucks exiting the Site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks will be washed prior to leaving the Site. Truck wash waters will be collected and disposed of off-Site in an appropriate manner.

5.3.5 Materials Disposal Off-Site

Disposal locations will be established at a later date. Prior to disposal location selection, the RE will oversee waste characterization activities to properly characterize all wastes at the Site. All disposal locations will be approved by the RE who will ensure all wastes generated during remediated are properly disposed of.

The total quantity of material expected to be disposed off-Site is approximately 321 cubic yards of non-hazardous soil and up to 22 cubic yards of hazardous soil. According to a Contained-In Determination issued by the NYSDEC on November 20, 2024, all soil excavated from AOC-10 and soils excavated from AOC-7 except the soil within the area delineated to the west by boring 7-B2; to the south by boring 7-1S; to the north by 7-B1N; and to the east by 7-B1E could be managed as non-hazardous waste. Soils from borings 7-B1W, 7-B1WW, and 7B1 will be managed as hazardous waste unless confirmatory samples are collected, and a second contained-in request is submitted to NYSDEC for approval.

All soil/fill/solid waste excavated and removed from the Site will be treated as contaminated and regulated material and will be disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of soil/fill from this Site is proposed for unregulated disposal (i.e., clean soil removed for development purposes), a formal request with an associated plan will be made to NYSDEC's Project Manager. Unregulated off-Site management of materials from this Site is prohibited without formal NYSDEC approval.

Material that does not meet Track 1 unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360.15 Registration Facility).

The following documentation will be obtained and reported by the RE for each disposal location used in this project to fully demonstrate and document that the disposal of material derived from the Site conforms with all applicable laws: (1) a letter from the RE or BCP Volunteer to the receiving facility describing the material to be disposed and requesting formal written acceptance of the material. This letter will state that material to be disposed is contaminated material generated at an environmental remediation Site in New York State. The letter will provide the project identity and the name and phone number of the RE. The letter will include as an attachment a summary of all chemical data for the material being transported (including RI data); and (2) a letter from all receiving facilities stating it is in receipt of the correspondence (above) and is approved to accept the material. These documents will be included in the FER.

Non-hazardous historic fill and contaminated soils taken off-Site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360.2.

Historic fill and contaminated soils from the Site are prohibited from being disposed at Part 360.15 Registration Facilities (also known as Soil Recycling Facilities).

Soils that are contaminated but non-hazardous and are being removed from the Site are considered by the Division of Materials Management (DMM) in NYSDEC to be Construction and Demolition (C/D) materials with contamination not typical of virgin soils. These soils may be sent to a permitted Part 360 landfill. They may be sent to a permitted C/D processing facility without permit modifications only upon prior notification of NYSDEC Region 2 DMM. This material is prohibited from being sent or redirected to a Part 360-15 Registration Facility. In this case, as dictated by DMM, special procedures will include, at a minimum, a letter to the C/D facility that provides a detailed explanation that the material is derived from a DER remediation Site, that the soil material is contaminated and that it must not be redirected to on-Site or off-Site Soil Recycling Facilities. The letter will provide the project identity and the name and phone number of the Remedial Engineer. The letter will include as an attachment a summary of all chemical data for the material being transported.

The FER will include an accounting of the destination of all material removed from the Site during this remedial action, including excavated soil, contaminated soil, historic fill, solid waste,

and hazardous waste, non-regulated material, and fluids. Documentation associated with disposal of all material must also include records and approvals for receipt of the material. This information will also be presented in a tabular form in the FER.

Bill of Lading system or equivalent will be used for off-Site movement of non-hazardous wastes and contaminated soils. This information will be reported in the FER. A manifest system for off-Site transportation of exported materials will be employed.

Hazardous wastes derived from on-Site will be stored, transported, and disposed of in full compliance with applicable local, State, and Federal regulations.

Appropriately licensed haulers will be used for material removed from this Site and will be in full compliance with all applicable local, State and Federal regulations.

Waste characterization will be performed for off-Site disposal in a manner suitable to the receiving facility and in conformance with applicable permits. Sampling and analytical methods, sampling frequency, analytical results and QA/QC will be reported in the FER. All data available for soil/material to be disposed at a given facility will be submitted to the disposal facility with suitable explanation prior to shipment and receipt.

Waste characterization data will be used solely for complying with requirements for off-site disposal. Waste Characterization sampling cannot be utilized for:

- Delineating the extent of contamination required for remediation at a Site.
- Replacing or substituting data collected as part of Site Characterization and/or Remedial Investigation.
- Replacing or substituting confirmation or documentation sampling as described in NYSDEC DER-10, Section 5.4.
- To modify remedial decisions as formalized in a NYSDEC approved Decision Document.

5.3.6 Materials Reuse On-Site

The proposed remedial actions do not anticipate materials reuse on-Site.

5.3.7 Fluids Management

Liquids (if any) to be removed from the Site, including dewatering fluids, will be handled, transported, and disposed in accordance with applicable local, State, and Federal regulations.

The dewatering fluid will be pretreated as necessary to meet the NYSDEC and local authority discharge criteria. All liquids to be removed from the Site, including dewatering fluids, will be handled, transported, and disposed in accordance with applicable local, State, and Federal regulations. Liquids discharged into the New York City sewer system will be addressed through approval by NYCDEP.

Dewatered fluids will not be recharged back to the land surface or subsurface of the Site. Dewatering fluids will be managed off-Site.

Discharge of water generated during remedial construction to surface waters (i.e. a local pond, stream, river and/or storm sewer) is prohibited without a SPDES permit. It is not anticipated that this project will require surface discharge of water or sewer discharge.

5.3.8 Demarcation

After the completion of soil removal and any other invasive remedial activities and prior to backfilling, a land survey will be performed by a New York State licensed surveyor. The survey will define the top elevation of residual contaminated soils. A physical demarcation layer, consisting of orange snow fencing material or equivalent material will be placed on this surface to provide a visual reference. This demarcation layer will constitute the top of the 'Residuals Management Zone', the zone that requires adherence to special conditions for disturbance of contaminated residual soils defined in the Site Management Plan. The survey will measure the grade covered by the demarcation layer before the placement of cover soils, pavement and sub-soils, structures, or other materials. This survey and the demarcation layer placed on this grade surface will constitute the physical and written record of the upper surface of the 'Residuals

Management Zone' in the Site Management Plan. A map showing the survey results will be included in the FER and the SMP.

5.3.9 Backfill from Off-Site Sources

This section presents the requirements for imported fill materials to be used below the cover layer and within the clean soil cover layer. All materials proposed for import onto the Site will be approved by the RE and by the NYSDEC project manager and will be in compliance with provisions in this RAWP prior to receipt at the Site. All imported soil/fill must meet the requirements of 6 NYCRR Part 375-6.7(d). The applicable SCOs for imported material is the lower of PGSCOs and CUSCOs.

A process will be established to evaluate sources of backfill and cover soil to be imported to the Site, and will include an examination of source location, current and historical use(s), and any applicable documentation. Material from industrial sites, spill sites, environmental remediation sites or other potentially contaminated sites shall not be imported to the Site.

The following potential sources may be used pending attainment of backfill and cover soil quality objectives:

- Clean soil from a licensed sand and gravel pit;
- Clean soil from construction projects at non-industrial sites in compliance with NYSDEC regulations;
- Clean soil from roadway or other transportation-related projects in compliance with applicable laws and regulations; and/or
- Clean recycled concrete aggregate (RCA) from facilities permitted or registered by the regulations of NYSDEC.

All materials received for import to the Site will be tested in accordance with NYSDEC DER-10, be approved by the RE and NYSDEC project manager and will be in compliance with provisions in this RAWP. A "Request to Import/Reuse Fill Material" form will be filed with the NYSDEC project manager for review and approval prior to import to the site. A copy of the form

is presented in **Appendix M**. Source Screening and Testing Inspection of imported fill material will include visual, olfactory and PID screening for evidence of contamination. Materials imported to the Site will be subject to inspection by the RE or a qualified environmental professional under his/her supervision, as follows:

- Trucks with imported fill material will be in compliance with NYSDEC and New York City Department of Transportation (NYCDOT) regulations and will enter the Site at designated locations;
- Every truck load of imported material will be inspected for evidence of contamination; and
- Fill material will be free of solid waste including pavement materials, debris, stumps, roots, and other organic matter, as well as ashes, oil, perishables or foreign matter.

, Following approval of the import request, the material will be loaded onto trucks for delivery to the Site.

RCA, if utilized, will be imported from facilities permitted or registered by NYSDEC. A Project Manager is responsible to ensure that the facility is compliant with NYSDEC registration and permitting requirements for the period of acquisition of RCA. RCA will be subject to sieve and/or chemical testing per DER-10. RCA imported to the Site must be derived from recognizable and uncontaminated concrete. RCA material is not acceptable for and will not be used as cover material.

All materials proposed for import onto the Site will be approved by the RE and will be in compliance with provisions in this RAWP prior to receipt at the Site.

Material from industrial sites, spill sites, other environmental remediation sites or other potentially contaminated sites will not be imported to the Site. Solid waste will not be imported onto the Site.

The FER will include the following certification by the RE: “I certify that all import of soils from off-Site, including source evaluation, approval and sampling, has been performed in a manner that is consistent with the methodology defined in the Remedial Action Work Plan”.

All imported soils will meet NYSDEC approved backfill or cover soil quality objectives for this Site. Non-compliant soils will not be imported onto the Site without prior approval by NYSDEC. Nothing in the approved RAWP or its approval by NYSDEC will be construed as an approval for this purpose.

Soils that meet 'general fill' requirements under 6 NYCRR Part 360.13, but do not meet backfill or cover soil objectives for this Site, will not be imported onto the Site without prior approval by NYSDEC. Nothing in this RAWP will be construed as an approval for this purpose.

5.3.10 Stormwater Pollution Prevention

Applicable laws and regulations pertaining to stormwater pollution prevention will be addressed during the excavation work. The need for erosion and sediment control measures are not anticipated during the remedial actions. However, if necessary, the following measures will be implemented:

Silt fences and barriers, and hay bale checks will be installed around the entire perimeter of the remedial action area and inspected once a week and after every storm event to ensure that they are operating appropriately. Discharge locations will be inspected to determine whether erosion control measures are effective in preventing significant impacts to receptors. Necessary repairs shall be made immediately. Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. Undercutting or erosion of the silt fence toe anchor will be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the RAWP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

5.3.11 Contingency Plan

If underground tanks or other previously unidentified contaminant sources are found during on-Site remedial excavation or development related construction, sampling will be performed on product, sediment and surrounding soils, etc. Chemical analytical work will be for full scan parameters (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides, PCBs, and PFAS). Analyses will not be otherwise limited without NYSDEC approval.

Identification of unknown or unexpected contaminated media identified by screening during invasive Site work will be promptly communicated by phone to NYSDEC's Project Manager. These findings will be also included in daily and periodic electronic media reports.

5.3.11.1 Extreme Storm Preparedness and Response Contingency Plan

Damage from flooding or storm surge can include dislocation of soil and stockpiled materials, dislocation of site structures and construction materials and equipment, and dislocation of support of excavation structures. Damage from wind during an extreme storm event can create unsafe or unstable structures, damage safety structures and cause downed power lines creating dangerous site conditions and loss of power. In the event of emergency conditions caused by an extreme storm event, the Volunteer will undertake the following steps for site preparedness prior to the event and response after the event.

5.3.11.2 Storm Preparedness

Preparations in advance of an extreme storm event will include the following: containerized hazardous materials and fuels will be removed from the property; loose materials will be secured

to prevent dislocation and blowing by wind or water; heavy equipment such as excavators and generators will be removed from excavated areas, trenches and depressions on the property to high ground or removed from the property; an inventory of the property with photographs will be performed to establish conditions for the site and equipment prior to the event; stockpile covers for soil and fill will be secured by adding weights such as sandbags for added security and worn or ripped stockpile covers will be replaced with competent covers; stockpiled hazardous wastes will be removed from the property; stormwater management systems will be inspected and fortified, including, as necessary: clean and reposition silt fences, hay bales; clean storm sewer filters and traps; and secure and protect pumps and hosing.

5.3.11.3 Storm Response

At the conclusion of an extreme storm event, as soon as it is safe to access the property, a complete inspection of the property will be performed. A site inspection report will be submitted to NYSDEC at the completion of site inspection and after the site security is assessed. Site conditions will be compared to the inventory of site conditions and material performed prior to the storm event and significant differences will be noted. Damage from storm conditions that result in acute public safety threats, such as downed power lines or imminent collapse of buildings, structures or equipment will be reported to public safety authorities via appropriate means such as calling 911.

Petroleum spills will be reported to NYSDEC within 2 hours of identification and consistent with State regulations. Emergency and spill conditions will also be reported to OER. Public safety structures, such as construction security fences will be repaired promptly to eliminate public safety threats. Debris will be collected and removed.

Dewatering will be performed in compliance with existing laws and regulations and consistent with emergency notifications, if any, from proper authorities. Eroded areas of soil including unsafe slopes will be stabilized and fortified. Dislocated materials will be collected and appropriately managed. Support of excavation structure will be inspected and fortified as necessary. Impacted stockpiles will be contained and damaged stockpile covers will be replaced. Stormwater control systems and structures will be inspected and maintained as necessary.

If soil or fill materials are discharged off site to adjacent properties, property owners and the NYSDEC will be notified, and corrective measure plan designed to remove and clean dislocated material will be submitted to the NYSDEC and implemented following approval by NYSDEC and granting of site access by the property owner. Impacted offsite areas may require characterization based on site conditions, at the discretion of the NYSDEC.

If onsite petroleum spills are identified, a qualified environmental professional will determine the nature and extent of the spill and report to NYSDEC's spill hotline at DEC 800-457-7362 within statutory defined timelines. If the source of the spill is ongoing and can be identified, it should be stopped if this can be done safely. Potential hazards will be addressed immediately, consistent with guidance issued by NYSDEC.

5.3.11.4 Storm Response Reporting

A site inspection report will be submitted to NYSDEC at the completion of site inspection. Site conditions will be compared to the inventory of site conditions and material performed prior to the storm event and significant differences will be noted. The site inspection report will be sent to the NYSDEC project manager and will include the site name, address, tax block and lot, site primary and alternate contact name and phone number.

Damage and soil release assessment will include: whether the project had stockpiles; whether stockpiles were damaged; photographs of damage and notice of plan for repair; report of whether soil from the site was dislocated and whether any of the soil left the site; estimates of the volume of soil that left the site, nature of impact, and photographs; description of erosion damage; description of equipment damage; description of damage to the remedial program or the construction program, such as damage to the support of excavation; presence of onsite or offsite exposure pathways caused by the storm; presence of petroleum or other spills and status of spill reporting to NYS DEC; description of corrective actions; schedule for corrective actions.

This report should be completed and submitted to the NYSDEC project manager with photographs within 24 hours of the time of safe entry to the property after the storm event.

5.3.12 Community Air Monitoring Plan

PSG will provide one (1) OSHA 40-hour HAZWOPER trained field technician who will serve as the Environmental Health and Safety Officer on-site during the soil excavation and soil load out activities who will implement and document the CAMP. Ally Hassler will serve as the Environmental Health and Safety Officer for the remedial actions described in this Work Plan.

The Site-Specific CAMP is provided in **Appendix J**.

5.3.12.1 Air Monitoring Stations

PSG will maintain two (2) air monitoring stations daily at the Site to monitor air conditions during construction work hours. Monitoring will occur during soil excavation and soil loading activities on a standard 8-hour work shift allowing preparation and setup time prior to the work shift and breakdown time after the work shift.

The primary station will be equipped with a DustTrak Air Monitor designed to continuously evaluate dust particles in the air at a location downwind of the excavation area and will be set with a 15-minute high-level alarm; a weather monitoring station and will be equipped with a 5-gas meter with detectors for total VOCs, lower & upper explosive limits, oxygen, carbon dioxide and hydrogen sulfide concentrations.

One additional station will be equipped with a DustTrak Monitor only and will be placed in a location along the perimeter of the work area at an upwind location, which will be determined based on daily published prevailing wind directions provided NOAA (https://www.climate.gov/teaching/resources/wind-map).

On-site duties for the Environmental Health and Safety Officer will include:

- Setting up CAMP equipment daily before the excavation work shift;
- Monitoring CAMP equipment throughout the day to assure levels are within acceptable ranges;
- Monitoring the breathing zone air with a PID to assure levels are within acceptable ranges;

- Monitoring of excavation health and safety onsite to ensure proper procedures are being followed, including familiarizing all onsite subcontractors with environmental health and safety requirements, overseeing proper decontamination procedures as required, and enforcing best practices onsite; and

CAMP equipment break-down, data uploading, and daily report preparation.

5.3.12.2 Community Air Monitoring

Using a nationwide network of monitoring sites, the EPA has developed ambient air quality trends for particle pollution, also called Particulate Matter (PM). PM_{10} describes inhalable particles, with diameters that are generally 10 micrometers and smaller.

5.3.12.3 Community Air Monitoring (CAM) Dust Monitoring Outlier Corrective Action Triggers

The Contractor shall provide a written Emergency Response Plan which includes means and methods to address any elevated fugitive dust particles and CAMP dust monitoring results reported by PSG. All equipment will be calibrated at least daily and be capable of calculating 15-minute running average concentrations.

VOC action levels are specified below:

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 ppm above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion

zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate action levels are summarized below:

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m3 above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m3 of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

5.3.12.4 CAMP Reporting

All data from CAMP and an overall health and safety summary will be provided in a daily report to all applicable parties including construction staff, the Client, and PSG staff. Exceedances

observed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers and included in the Daily Report.

5.3.13 Odor, Dust, and Nuisance Control Plan

The FER will include the following certification by the RE: "I certify that all invasive work during the remediation and all invasive development work were conducted in accordance with dust and odor suppression methodology defined in the RAWP."

5.3.13.1 Dust Control

A dust suppression plan that addresses dust management during invasive on-Site work, will include, at a minimum, the items listed below:

- If needed, dust suppression will be achieved using a dedicated on-Site water truck. The truck will be equipped with water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles, and
- On-Site roads will be limited in total area to minimize the area required for water truck sprinkling.
- Use of properly anchored tarps to cover stockpiles; and
- Exercise extra care during dry and high-wind periods.

This dust control plan is capable of controlling emissions of dust. If nuisance dust emissions are identified, work will be halted, and the source of dust will be identified and remediated. Work will not resume until all nuisance dust emissions have been abated. Implementation of all dust controls, including halt of work, will be the responsibility of a combination of the construction contractor conducting the excavation and loading activities and PSG technicians and Project Manager.

5.3.13.2 Noise Control

Noise control will be exercised during the soil excavation work. Excavation work will conform, at a minimum, to local and state noise control standards.

5.3.13.3 Odor Control Plan

This odor control plan is capable of controlling emissions of nuisance odors off-Site. If nuisance odors are identified, work will be halted, and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of all other complaints about the project. Implementation of all odor controls, including the halt of work, will be the responsibility of the Volunteer's RE, who will be responsible for certifying the FER.

All necessary means will be employed to prevent on- and off-Site nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils; [add other elements as appropriate]. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-Site disposal; (e) use of chemical odorants in spray or misting systems; and (f) use of staff to monitor odors in surrounding neighborhoods.

Where odor nuisances have developed during remedial work and cannot be corrected, or where the release of nuisance odors cannot otherwise be avoided due to on-Site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering excavation and handling areas under tented containment structures equipped with appropriate air venting/filtering systems.

5.3.13.5 Other Nuisances

A plan will be developed and utilized by the contractor for all remedial work and will conform, at a minimum, to NYCDEP noise control standards.

5.4 SITE MANAGEMENT AND ENVIRONMENTAL EASEMENT

An EE will be recorded referencing Institutional Controls (ICs) and Engineering Controls (ECs) that are part of the selected remedy, which will be binding upon all subsequent owners and occupants of the property. The ICs would: 1) restrict the Site's use to commercial and industrial uses, although land use is subject to local zoning laws; 2) restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDEC or NYCDOHMH; 3) require implementation of an NYSDEC-approved SMP; 4) require the completion and submission to the NYSDEC a periodic certification of ICs and ECs in accordance with Part 375; and 5) include notice-of-use restrictions of the Site's soil. The ECs would be the composite cover system and the active vapor mitigation systems in this RAWP.

The SMP will identify all use restrictions and ECs and long-term monitoring and maintenance requirements to ensure the ICs and/or ECs remain in place and are effective. The SMP will include, but may not be limited to:

- An Excavation Work Plan which details the provisions for management of future excavations in areas of remaining contamination;
- Descriptions of the provisions of the EE including any land use, and/or groundwater use restrictions;
- Provision for evaluation of the potential for soil vapor intrusion for any buildings developed on the Site, including provision for data collection and implementing actions recommended to address exposures related to soil vapor intrusion;
- Provisions for the management and inspection of the identified ECs;
- Maintaining Site access controls and NYSDEC notification;
- The steps necessary for the periodic reviews and certification of the ICs and/or ECs; and
- A Monitoring Plan to assess the performance and effectiveness of the remedy. The Monitoring Plan includes, but may not be limited to:

- Monitoring for vapor intrusion for any buildings developed on the Site, as may be required by the Institutional and Engineering Control Plan discussed above, particularly if there are one or more exhaust fans on the ground floor of the building.

- The previously approved SSDS Operations, Maintenance, and Monitoring (OMM).

5.5 RA INVESTIGATION DERIVED WASTE

Soil samples will also be collected via direct-push technology; therefore, little to no IDW will be generated. As permitted in Section 3.3(e) of DER-10, the limited soil cuttings generated by sampling activities will be returned to the borehole to within 12-inches of the surface, followed by clean cohesive soil which will be compacted within the borehole, or bentonite, to allow for restoration of the pavement surface.

Soil cuttings from boreholes that will be converted to temporary monitoring wells, that have free product visible in it, have penetrated an aquitard, or extended into bedrock, will be containerized in DOT-approved shipping containers and stored onsite, within the fenced area, until transportation and disposal are arranged. IDW will not be disposed of within the same borehole if that borehole will be used for the installation of a permanent monitoring well. Soil cuttings will be containerized at the end of each day and will not be stored outside of a container or borehole overnight. Waste profiles, and hazardous waste determination, will be generated based on the site sampling results and the soil cuttings will be disposed of as hazardous or non-hazardous pending the onsite sampling results and the requirements of the disposal facility.

Drilling cuttings, development water, purge water, and other soil generated on-Site during an investigation from the installation of monitoring wells are presumed to be contaminated. These cuttings will be containerized in DOT-approved shipping containers and stored onsite, within the fenced area, until transportation and disposal are arranged.

Soils generated from excavations will be containerized in DOT-approved shipping containers and stored onsite, within the fenced area, until transportation and disposal are arranged. Excavated soils will be containerized at the end of each day and will not be stored outside of a container overnight. Waste profiles, and hazardous waste determination, will be generated based on the Site

sampling results and the soil will be disposed of as hazardous or non-hazardous pending the onsite sampling results and the requirements of the disposal facility.

Liquids derived from the purging of temporary well points and permanent monitoring well development will be containerized in DOT-approved shipping containers and stored onsite, within the fenced area, until laboratory results are received, and transportation and disposal are arranged. Waste profiles and hazardous waste determination will be generated based on the sample results derived from the wells and the requirements of the disposal facility. All waste will be managed per the requirements of 6 NYCRR Part 360, 364, and 370 as applicable. IDW shall be handled only by licensed waste haulers and will only be transported to permitted, authorized disposal facilities once a waste profile has been created and approved. PSG will provide the NYSDEC the disposal facility's information and the waste hauler's permits once they are secured and will provide copies of disposal manifests in subsequent reporting.

No public events will occur onsite when there are uncovered soil boring locations, excavated materials, staged soil, or containerized wastes on site. If any ground intrusive activities are to occur an onsite cover system as defined by DER-10 will be in place prior to occupancy or use by the public.

Disposable sampling equipment including, spoons, gloves, bags, paper towels, etc. that came in contact with environmental media were double bagged and disposed as municipal trash in a facility trash dumpster as non-hazardous trash.

6.0 RESIDUAL CONTAMINATION TO REMAIN ON-SITE

Since residual contaminated soil and groundwater/soil vapor will exist beneath the Site after the remedy is complete, ECs and ICs are required to protect human health and the environment. These ECs and ICs are described hereafter. Long-term management of EC/ICs and of residual contamination will be executed under a Site specific SMP that will be developed and included in the FER.

ECs will be implemented to protect public health and the environment by appropriately managing residual contamination. The Site will have EC systems. These are: the SSDSs in the two

buildings, and a composite cover system consisting of asphalt paved areas, concrete covered walkways, and concrete building slabs.

7.0 ENGINEERING CONTROLS: SITE COVER SYSTEM

Exposure to residual contaminated soils will be prevented by the existing site cover system on the Site. This site cover system is comprised of asphalt paved areas, concrete covered walkways, and concrete building slabs. Should Site redevelopment occur in the future, green remediation BMPs for designing and installing a conventional cover system will be considered. Green remediation BMPs for designing and installing a conventional cover system include:

- Design in ways that mimic rather than alter the site's natural setting, to improve the cover's long-term performance and protect ecosystem services;
- Design a cover accounting for potential effects of climate change, which could involve changes in onsite soil development or increased vulnerability to flooding;
- Use of uncontaminated soil or sediment from onsite excavation instead of imported soil/sediment for the cover's frost prevention and erosion control layers; similarly, uncontaminated sand, gravel, and rocks from onsite instead of offsite areas may be used for drainage;
- Application of low impact development strategies such as installing earthen berms to manage stormwater;
- Selection of geotextile fabric or drainage tubing composed of 100% recycled materials rather than virgin materials for lining, erosion control, and drainage;
- Selection of materials with biobased content for daily activities during cover construction;
- Use of clean fuel and emission control technologies for routine field vehicles and machinery such as backhoes and bulldozers to reduce fuel consumption and emission of air pollutants such as GHGs and particulate matter; and
- Consideration of onsite solar and wind resources to power equipment.

For alternative cover designs

- Consideration of asphalt rubber (containing recycled tires) where the cover system includes a layer of asphalt.

- Substitute concrete with high albedo pavement, which reflects sunlight and heat away from the cover surface and may aid growth of nearby vegetation; and
- Consideration of concrete containing a high percentage of industrial waste by-products as a substitute for cement, if tests show no contaminant leaching.

An Excavation Plan will be included in the SMP and will outline the procedures to be followed if the Site cover system and underlying residual contamination are disturbed after the remedial action is complete.

The components of the site cover system will be documented in the FER. Maintenance of this site cover system will be described in the SMP.

8.0 ENGINEERING CONTROLS: SSDS

Each building onsite is already equipped with an active SSDS. These SSDSs will continue to serve as engineering controls to mitigate the risk of soil vapor intrusion into the buildings on-Site.

9.0 CRITERIA FOR COMPLETION OF REMEDIATION/TERMINATION OF REMEDIAL SYSTEMS

9.1 Site Cover System

The site cover system is a permanent control, and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity.

The site cover system will consist of the two concrete buildings and concrete and asphalt hardscape throughout the Site. The cover system would serve for the protection of human health by preventing contact with residual contaminated Site soil.

9.2 Sub-Slab Depressurization System (SSDS)

The active SSDSs will not be discontinued without written approval by NYSDEC and NYSDOH. A proposal to discontinue the active SSDS may be submitted by the property owner based on confirmatory data that justifies such request. Systems will remain in place and operational until permission to discontinue use is granted in writing by NYSDEC and NYSDOH.

9.3 Groundwater Monitoring

Groundwater monitoring activities to assess the performance of the remedy, or natural attenuation following the removal of contaminant sources, will continue, as determined by NYSDOH and NYSDEC, until residual groundwater concentrations are found to be below NYSDEC standards or have become asymptotic over an extended period. Monitoring will continue until permission to discontinue is granted in writing by NYSDEC and NYSDOH. Monitoring activities will be outlined in the Monitoring Plan of the SMP. It is anticipated that, following remediation, a minimum of eight quarterly monitoring events will be performed.

10.0 INSTITUTIONAL CONTROLS

After the remedy is complete, the Site will have residual contamination remaining in place. ECs for the residual contamination have been incorporated into the remedy to render the overall Site remedy protective of public health and the environment. Two elements have been designed to ensure continual and proper management of residual contamination in perpetuity: an EE and a Site Management Plan.

All as-built drawings, diagrams, calculation and manufacturer documentation for treatment systems will be presented in the FER. A Site -specific EE will be recorded with Kings County to provide an enforceable means of ensuring the continual and proper management of residual contamination and protection of public health and the environment in perpetuity or until released in writing by NYSDEC. It requires that the grantor of the EE and the grantor's successors and assigns adhere to all ECs/ICs placed on this Site by this NYSDEC-approved remedy. ICs provide restrictions on Site usage and mandate operation, maintenance, monitoring and reporting measures for all ECs and ICs. The SMP describes appropriate methods and procedures to ensure compliance with all ECs and ICs that are required by the EE. Once the SMP has been approved by the NYSDEC, compliance with the SMP is required by the grantor of the EE and grantor's successors and assigns.

10.1 ENVIRONMENTAL EASEMENT

An EE, as defined in Article 71 Title 36 of the Environmental Conservation Law, is required when residual contamination is left on-Site after the remedial actions Action is complete. As part

of this remedy, an EE approved by NYSDEC will be filed and recorded with the Kings County Office of the City Register. The EE will be submitted as part of the FER.

The EE renders the Site a Controlled Property. The EE must be recorded with the Kings County Office of the City Register before the Certificate of Completion can be issued by NYSDEC. A series of ICs are required under this remedy to implement, maintain, and monitor these EC systems, prevent future exposure to residual contamination by controlling disturbances of the subsurface soil and restricting the use of the Site to commercial use only. These ICs are requirements or restrictions placed on the Site that are listed in, and required by, the EE. ICs can, generally, be subdivided between controls that support ECs, and those that place general restrictions on Site usage or other requirements. ICs in both of these groups are closely integrated with the SMP, which provides all of the methods and procedures to be followed to comply with this remedy.

Compliance with all elements of the Site Management Plan is required by the Grantor of the EE, and the Grantor's successors and assigns.

- Compliance with the EE by the Grantee and the Grantee's successors and adherence of all elements of the SMP is required;
- All ECs will be operated and maintained as specified in the SMP;
- A composite cover system consisting of asphalt covered roads, concrete covered sidewalks, and concrete building slabs will be inspected, certified and maintained as required in the SMP;
- A soil vapor mitigation system consisting of a SSDS under all building structures will be inspected, certified, operated and maintained as required by the SMP;
- All ECs on the Controlled Property will be inspected and certified at a frequency and in a manner defined in the SMP;
- Groundwater, soil vapor, and other environmental or public health monitoring will be performed as defined in the SMP;

- Data and information pertinent to site management for the Site will be reported at the frequency and in a manner defined in the SMP;
- On-Site environmental monitoring devices, including but not limited to, [groundwater monitor wells and soil vapor probes], will be protected and replaced as necessary to ensure proper functioning in the manner specified in the SMP; and
- ECs will not be discontinued without an amendment or extinguishment of the EE.

Note: Institutional Controls may be modified, added or deleted from this list as warranted by Site conditions and deemed necessary by NYSDEC.

Adherence to these ICs for the Site is mandated by the EE and will be implemented under the SMP (discussed in the next section). The Controlled Property (Site) will also have a series of ICs in the form of Site restrictions and requirements. The Site restrictions that apply to the Controlled Property are:

- Vegetable gardens and farming on the Controlled Property are prohibited;
- Use of groundwater underlying the Controlled Property is prohibited without treatment rendering it safe for intended purpose;
- All future activities on the Controlled Property that will disturb residual contaminated material are prohibited unless they are conducted in accordance with the soil management provisions in the SMP;
- The Controlled Property may be used for restricted commercial use only, provided the long-term ECs/ICs included in the SMP are employed;
- The Controlled Property may not be used for a higher level of use, such as restricted residential use without an amendment or extinguishment of the EE;
- Grantor agrees to submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health

and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow. This [time period] statement must be certified by an expert that the NYSDEC finds acceptable.

10.2 SITE MANAGEMENT PLAN

Site management is the last phase of remediation and begins with the approval of the FER and issuance of the Certificate of Completion for the remedial action. The SMP is submitted as part of the FER but will be written in a manner that allows its removal and use as a complete and independent document. Site management continues in perpetuity or until released in writing by NYSDEC. The property owner is responsible to ensure that all Site management responsibilities defined in the EE and the SMP are performed.

The SMP is intended to provide a detailed description of the procedures required to manage residual contamination left in place at the Site following completion of the remedial action in accordance with the BCA with the NYSDEC. This includes: (1) development, implementation, and management of all Engineering and Institutional Controls; (2) development and implementation of monitoring systems and a Monitoring Plan; (3) development of a plan to operate and maintain any treatment, collection, containment, or recovery systems (including, where appropriate, preparation of an Operation and Maintenance Manual); (4) submittal of Site Management Reports, performance of inspections and certification of results, and demonstration of proper communication of Site information to NYSDEC; and (5) defining criteria for termination of treatment system operation.

To address these needs, this SMP will include five plans: (1) an Engineering and Institutional Control Plan for implementation and management of EC/ICs; (2) a Monitoring Plan for implementation of Site Monitoring; (3) an Operation and Maintenance Plan for implementation of remedial collection, containment, treatment, and recovery systems; (4) a Site Management Reporting Plan for submittal of data, information, recommendations, and certifications to NYSDEC; and (5) Excavation Work Plan for requirements related to any future excavation at the

Site. The SMP will be prepared in accordance with the requirements in NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation and the guidelines provided by NYSDEC.

Site management activities, reporting, and EC/IC certification will be scheduled on a certification period basis. The certification period will be annually. The Site Management Plan will be based on the certifying period relative to the date of issuance of the Certificate of Completion. The first submission will be due 16 months after the issuance of the Certificate of Completion, and annually (or at another frequency as approved by NYSDEC) thereafter.

The SMP in the FER will include a monitoring plan for groundwater at the down-gradient Site perimeter to evaluate Site -wide performance of the remedy. Appropriately placed groundwater monitor wells will also be installed immediately down-gradient of all VOC remediation areas for the purpose of evaluation of the effectiveness of the remedy that is implemented.

No exclusions for handling of residual contaminated soils will be provided in the SMP. All handling of residual contaminated material will be subject to provisions contained in the SMP.

11.0 FINAL ENGINEERING REPORT

A FER will be submitted to NYSDEC following implementation of the RA defined in this RAWP. The FER provides the documentation that the remedial work required under this RAWP has been completed and has been performed in compliance with this plan. The FER will provide a comprehensive account of the locations and characteristics of all material removed from the Site including the surveyed map(s) of all sources. The FER will include as-built drawings for all constructed elements, calculation and manufacturer documentation for treatment systems, certifications, manifests, bills of lading as well as the complete SMP (formerly the Operation and Maintenance Plan). The FER will provide a description of the changes in the remedial action from the elements provided in the RAWP and associated design documents. The FER will provide a tabular summary of all performance evaluation sampling results and all material characterization results and other sampling, and chemical analysis performed as part of the remedial action. The FER will provide test results demonstrating that all mitigation and remedial systems are functioning properly. The FER will be prepared in conformance with DER-10.

Where determined to be necessary by NYSDEC, a Financial Assurance Plan will be required to ensure the sufficiency of revenue to perform long-term operations, maintenance and monitoring tasks defined in the SMP and EE. This determination will be made by NYSDEC in the context of the FER review.

The FER will include written and photographic documentation of all remedial work performed under this remedy.

The FER will include an itemized tabular description of actual costs incurred during all aspects of the Remedial Action.

The FER will provide a thorough summary of all residual contamination left on the Site after the remedy is complete. Residual contamination includes all contamination that exceeds the Track 1 Unrestricted Use SCO in 6NYCRR Part 375-6. A table that shows exceedances from Track 1 Unrestricted SCOs for all soil/fill remaining at the Site after the Remedial Action and a map that shows the location and summarizes exceedances from Track 1 Unrestricted SCOs for all soil/fill remaining at the Site after the remedial action will be included in the FER.

The FER will provide a thorough summary of all residual contamination that exceeds the SCOs defined for the Site in the RAWP and must provide an explanation for why the material was not removed as part of the remedial action. A table that shows residual contamination in excess of Site SCOs and a map that shows residual contamination in excess of Site SCOs will be included in the FER.

The FER will include an accounting of the destination of all material removed from the Site, including excavated contaminated soil, historic fill, solid waste, hazardous waste, non-regulated material, and fluids. Documentation associated with disposal of all material must also include records and approvals for receipt of the material. It will provide an accounting of the origin and chemical quality of all material imported onto the Site.

The FER will include a discussion of the green remediation practices/technologies employed throughout the remedial program. A final footprint analysis using a DER accepted model, and any tracking methods used through the construction including restoration activities will be included in the FER.

Before approval of a FER and issuance of a Certificate of Completion, all project reports will be submitted in digital form on electronic media (PDF).

11.1 CERTIFICATIONS

The following certification will appear in front of the Executive Summary of the FER. The certification will be signed by the RE Kristine McCarthy MacWilliams who is a Professional Engineer registered in New York State. This certification will be appropriately signed and stamped. The certification will include the following statements:

I, Kristine McCarthy MacWilliams, am currently a registered professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the remedial program for the Avant Gardner Site (NYSDEC BCA Index No. C224258-12-17 Site No. C224258). I certify that the Remedial Action Work Plan (RAWP) was implemented and that all construction activities were completed in substantial conformance with the NYSDEC-approved RAWP.

I certify that the Site description presented in this FER is identical to the Site descriptions presented in the EE, the Site Management Plan, and the Brownfield Cleanup Agreement for Avant Gardner and related amendments.

I certify that the data submitted to NYSDEC with this Final Engineering Report demonstrates that the remediation requirements set forth in the RAWP and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an Environmental Easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site,

including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the NYSDEC.

I certify that the export of all contaminated soil, fill, water or other material from the property was performed in accordance with the Remedial Action Work Plan and were taken to facilities licensed to accept this material in full compliance with all Federal, State and local laws.

I certify that all import of soils from off-Site, including source approval and sampling, has been performed in a manner that is consistent with the methodology defined in the Remedial Action Work Plan.

I certify that all invasive work during the remediation and all invasive development work were conducted in accordance with dust and odor suppression methodology and soil screening methodology defined in the Remedial Action Work Plan.

I certify that all data generated in support of this report have been submitted in accordance with NYSDEC's electronic data deliverable and have been accepted by NYSDEC.

I certify that all information and statements in this certification are true. I understand that a false statement made herein is punishable as Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

12.0 SCHEDULE

The Remedial Action field work is anticipated to start in March 2025 and be completed in April 2025. Post-remediation groundwater monitoring is expected to continue through June 2026. **Table 10** depicts an estimated project schedule.

TABLES

PSG

Table 1
HISTORICAL SOIL ANALYTICAL RESULTS
VOCs - Hits Only
NYSDEC BCP Site C224258 - AVANT GARDNER
111 Gardner and 140 Stewart Avenue
BROOKLYN, NEW YORK

Information			Volatiles (SW846 8260C)																																
Sample No.	Date Collected	Sample Depth (ft.)	1,2-Dichloroethane	Acetone	Benzene	sec-butylbenzene	Carbon Tetrachloride	Chloroform	2-Chlorotoluene	1,2-dichloro benzene	1,4-dichloro benzene	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	p-Isopropyltoluene	Methyl Ethyl Ketone	Methyl Tert-Butyl Ether	Naphthalene	n-propyl benzene	PCE	Toluene	1,2,3-Trichloro benzene	1,1,1-TCE	TCE	1,2,4-Trimethyl benzene	1,2,3-Trimethyl benzene	Vinyl chloride	1,3,5-Trimethyl benzene	Xylenes	Isopropybenzene	2-Butanone	n-butylbenzene	tert-butylbenzene	4-chlorotoluene
NY-UUSCO			0.2 mg/kg	0.05 mg/kg	0.06 mg/kg	-	0.76 mg/kg	0.37 mg/kg	-	1.1 mg/kg	1.8 mg/kg	0.27 mg/kg	0.33 mg/kg	0.25 mg/kg	0.19 mg/kg	1 mg/kg	-	0.12 mg/kg	0.93 mg/kg	12 mg/kg	3.9 mg/kg	1.3 mg/kg	0.7 mg/kg	-	0.68 mg/kg	0.47 mg/kg	3.6 mg/kg	0.1 mg/kg	0.02 mg/kg	8.4 mg/kg	0.26 mg/kg	-	0.12 mg/kg		-	-
NY-CSCO			30 mg/kg	500 mg/kg	44 mg/kg	-	22 mg/kg	350 mg/kg	-	500 mg/kg	130 mg/kg	240 mg/kg	500 mg/kg	500 mg/kg	500 mg/kg	390 mg/kg	-	500 mg/kg	500 mg/kg	500 mg/kg	500 mg/kg	150 mg/kg	500 mg/kg	-	500 mg/kg	200 mg/kg	190 mg/kg	130 mg/kg	13 mg/kg	190 mg/kg	500 mg/kg	-	500 mg/kg	-	-	-
S-1	1/21/2016	10-14	-	ND	ND	ND	-	-	-	-	-	ND	-	ND	-	ND	ND	-	-	-	-	ND	-	-	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND
S-2	1/21/2016	12-14	-	ND	ND	ND	-	-	-	-	-	ND	-	ND	-	ND	0.00138	-	-	-	-	ND	-	-	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND
S-3	1/21/2016	8-10	-	ND	ND	ND	-	-	-	-	-	ND	-	ND	-	ND	ND	-	-	-	-	ND	-	-	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND
S-4	1/21/2016	5-10	-	ND	ND	ND	-	-	-	-	-	ND	-	0.00619	-	ND	ND	-	-	-	-	0.0261	-	-	-	0.00308	ND	ND	-	ND	ND	ND	ND	ND	ND
S-5	1/21/2016	8-10	-	ND	ND	ND	-	-	-	-	-	ND	-	ND	-	ND	ND	-	-	-	-	ND	-	-	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND
S-6	1/21/2016	6-9	-	ND	ND	ND	-	-	-	-	-	ND	-	ND	-	ND	ND	-	-	-	-	ND	-	-	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND
S-7	1/21/2016	8-10	-	ND	ND	ND	-	-	-	-	-	ND	-	ND	-	ND	ND	-	-	-	-	ND	-	-	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND
S-8	1/21/2016	8-10	-	ND	ND	ND	-	-	-	-	-	ND	-	0.0013	-	ND	ND	-	-	-	-	0.00459	-	-	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND
S-9	1/21/2016	8-10	-	0.0748	0.00124	0.0152	-	-	-	-	-	0.00142	-	0.00387	-	0.00134	0.00642	-	-	-	-	0.00135	-	-	-	0.00215	0.0615	0.0394	-	0.00824	0.00482	0.0104	0.0214	0.0208	0.00186	0.0015
S-10	1/21/2016	5-9	-	ND	ND	ND	-	-	-	-	-	ND	-	ND	-	ND	ND	-	-	-	-	ND	-	-	-	ND	ND	ND	-	ND	ND	ND	ND	ND	ND
S-11	1/21/2016	5-10	-	ND	0.0104	ND	-	-	-	-	-	0.00895	-	ND	-	ND	ND	-	-	-	-	ND	-	-	-	ND	ND	0.00129	-	ND	ND	0.00226	ND	ND	ND	ND
DS-1A	2/24-26/2016	3	-	ND	ND	ND	ND	0.0922	ND	ND	ND	ND	ND	0.016	ND	ND	ND	ND	ND	ND	ND	0.0411	ND	ND	ND	0.0182	ND	ND	ND	ND	ND	-	-	-	-	-
DS-1B	2/24-26/2016	6	-	0.0592	0.00159	ND	ND	ND	0.00178	0.00709	ND	ND	ND	0.00178	ND	ND	ND	ND	ND	ND	ND	0.00133	ND	ND	ND	ND	ND	ND	0.00135	ND	ND	-	-	-	-	-
DS-1C	2/24-26/2016	9	-	0.34	0.00222	ND	ND	ND	ND	0.00452	ND	ND	ND	0.00353	ND	ND	0.00325	0.0604	ND	0.136	ND	ND	ND	ND	ND	ND	0.00217	0.00498	ND	ND	ND	-	-	-	-	-
DS-2A	2/24-26/2016	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-2B	2/24-26/2016	9	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00258	ND	ND	ND	ND	ND	ND	ND	0.00711	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
DS-3A	2/24-26/2016	3	-	ND	ND	ND	0.00517	0.0459	ND	ND	ND	ND	ND	0.0195	ND	ND	ND	ND	ND	ND	ND	0.122	ND	0.00126	ND	0.011	ND	ND	ND	ND	ND	ND	-	-	-	-
DS-3B	2/24-26/2016	6	-	ND	ND	ND	ND	0.0358	ND	0.0116	0.00151	ND	ND	0.0832	ND	ND	ND	ND	ND	ND	ND	0.111	ND	ND	ND	0.0215	ND	ND	0.00302	ND	ND	ND	-	-	-	-
DS-3C	2/24-26/2016	9	-	ND	ND	ND	ND	ND	ND	0.00122	ND	ND	ND	0.00459	ND	ND	ND	ND	ND	ND	ND	0.00324	ND	ND	ND	0.00264	ND	ND	ND	ND	ND	-	-	-	-	-
DS-4A	2/24-26/2016	3	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0205	ND	ND	ND	ND	ND	ND	ND	0.0318	ND	ND	ND	0.00627	ND	ND	ND	ND	ND	-	-	-	-	-
DS-4C	2/24-26/2016	6	-	ND	ND	ND	ND	0.00729	ND	0.00575	ND	ND	ND	0.0158	0.00207	ND	ND	ND	ND	ND	ND	0.00642	ND	ND	ND	0.0034	ND	ND	0.0118	ND	ND	-	-	-	-	-
DS-5A	2/24-26/2016	3	-	ND	ND	ND	ND	0.0134	ND	ND	ND	ND	ND	0.0306	ND	ND	ND	ND	ND	ND	ND	0.0142	ND	ND	ND	0.0178	ND	ND	0.0136	ND	ND	-	-	-	-	-
DS-5B	2/24-26/2016	6	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00122	0.00289	ND	ND	ND	ND	ND	ND	0.00219	ND	ND	ND	0.00331	ND	ND	ND	ND	ND	-	-	-	-	-
DS-5C	2/24-26/2016	9	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-
DS-6A	2/24-26/2016	3	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-
DS-6B	2/24-26/2016	6	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-
DS-7A	2/24-26/2016	3	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-
DS-7B	2/24-26/2016	6	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-
DS-8A	2/24-26/2016	3	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.1	ND	ND	ND	ND	ND	ND	ND	127	ND	ND	ND	0.0507	ND	ND	0.00487	ND	ND	-	-	-	-	-
DS-8B	2/24-26/2016	6	-	ND	ND	ND	0.327	ND	ND	ND	ND	ND	ND	15	0.0531	ND	ND	ND	ND	ND	ND	102	ND	ND	0.189	6.29	ND	ND	0.0782	ND	ND	-	-	-	-	-
DS-8C	2/24-26/2016	9	-	0.0889	ND	ND	ND	ND	ND	0.00278	ND	ND	ND	0.00901	ND	ND	ND	ND	ND	ND	ND	0.0194	ND	ND	ND	0.00183	ND	ND	0.00137	ND	ND	-	-	-	-	-
DS-9A	2/24-26/2016	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-9B	2/24-26/2016	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-9C	2/24-26/2016	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-10A	2/24-26/2016	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-10B	2/24-26/2016	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-10C	2/24-26/2016	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-11A	2/24-26/2016	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-11B	2/24-26/2016	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-12A	2/24-26/2016	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-12B	2/24-26/2016	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-12C	2/24-26/2016	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-13A	2/24-26/2016	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-13B	2/24-26/2016	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-13C	2/24-26/2016	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-14A	2/24-26/2016	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-14B	2/24-26/2016	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-14C	2/24-26/2016	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-15A	2/24-26/2016	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-15B	2/24-26/2016	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-15C	2/24-26/2016	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-16A	2/24-26/2016	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-16B	2/24-26/2016	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-16C	2/24-26/2016	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-17A	2/24-26/2016	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-17B	2/24-26/2016	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-17C	2/24-26/2016	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-18A	2/24-26/2016	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-18B	2/24-26/2016	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-18C	2/24-26/2016	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-19A	2/24-26/2016	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-19B	2/24-26/2016	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-19C	2/24-26/2016	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-20A	2/24-26/2016	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-20B	2/24-26/2016	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-20C	2/24-26/2016	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-21A	2/24-26/2016	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-21B	2/24-26/2016	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-21C	2/24-26/2016	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-22A	2/24-26/2016	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DS-22B	2/24-26/2016	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB-1	2/13/2017	3-5	ND	ND	ND	ND	-	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	-	-	-
SB-2	2/13/2017	3-5	ND	ND	ND	ND	-	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	-	ND	-	5.1	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	-	-	-
SB-3	2/13/2017	3-5	ND	ND	ND	ND	-	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	-	-	-
SB-4	2/13/2017	3-5	ND	0.37	ND	ND	-	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	-	0.13	-	ND	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	-	-	-
SB-5	2/13/2017	3-5	ND	0.15	ND	ND	-	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	-	-	-
SB-6	2/13/2017	3-5	ND	0.086	ND	ND	-	ND	-	-	-	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	-	-	ND	ND	ND	ND	ND	ND	-	-	-	-	-
A3	9/2/2017	22-22.5	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B6	9/6/2017	21-21.5	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E4	9/1/2017	19.5-20	-	0.161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F2-A	9/5/2017	19.5-20	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F2-B	9/5/2017	27.5-28	-	0.0862	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F3	9/1/2017	4.5-5	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F4-Soil	9/6/2017	20-20.5	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G2-A	9/21/2017	14.5-15	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
H1	9/20/2017	7.5-8	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I2	9/20/2017	6.5-7	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tank Sidewall #1	10/20/2017	NA	-	-	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	-	0.74	-	-	-	37	-	-	12	1.2	-	-	-	-
Tank Sidewall #1A	1/29/2018	NA	-	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	0.003	-	-	-	0.003	-	-	0.003	0.0091	-	-	-	-
Tank Sidewall #2	10/20/2017	NA	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	ND	-	-	-	ND	-	-	ND	0.89	-	-	-	-
Tank Sidewall #4	10/20/2017	NA	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	ND	-	-	-	ND	-	-	ND	0.89	-	-	-	-
Tank Bottom	10/20/2017	NA	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	ND	-	-	-	18	-	-	ND	5.5	-	-	-	-
Tank Bottom A	1/29/2018	NA	-	-	0.004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.004	-	-	ND	-	-	-	0.005	-	-	ND	0.012	-	-	-	-

Legend:

mg/Kg: milligrams per kilogram, ppm
NY-UUSCO: New York Unrestricted Use SCO
NY-CSOC: New York Commercial SCO
ND Not Detected
- Not Sampled/Analyzed
4.2 Concentration in excess of NY-UNRES
200 Concentration in excess of NY-COM
PCE: Tetrachloroethene
TCE: Trichloroethene

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
SVOCs - Hits Only
NYSDEC BCP Site C224258 - AVANT GARDNER
111 Gardner and 140 Stewart Avenue
BROOKLYN, NEW YORK

Information																						
Sample No.	Date Collected	Sample Depth (ft.)	Anthracene	Acenapthene	Acenaphthylene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(ghi) pyrene	Bnezo(k) flouranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Indenp(1,2,3-cd)-pyrene	Naphthalene	Phenanthrene	Phenol	Pyrene	1-Methyl naphtalene	2-Methyl naphtalene	2-Methylphenol	3-Methylphenol/4-Methylphenol
NY-UUSCO (mg/kg)			1 mg/kg	20 mg/kg	100 mg/kg	1 mg/kg	1 mg/kg	1 mg/kg	100 mg/kg	0.8 mg/kg	1 mg/kg	0.33 mg/kg	100 mg/kg	30 mg/kg	0.5 mg/kg	12 mg/kg	100 mg/kg	0.33 mg/kg	100 mg/kg	-	-	0.33 mg/kg	0.33 mg/kg
NY-CSCO (mg/kg)			5.6 mg/kg	500 mg/kg	500 mg/kg	5.6 mg/kg	1 mg/kg	5.6 mg/kg	500 mg/kg	56 mg/kg	56 mg/kg	0.56 mg/kg	500 mg/kg	500 mg/kg	5.6 mg/kg	500 mg/kg	500 mg/kg	500 mg/kg	500 mg/kg	-	-	500 mg/kg	500 mg/kg
S-1	1/21/2016	10-14	0.0758	0.03651	ND	0.326	0.327	0.377	0.228	0.107	0.275	0.0554	0.61	0.037	0.189	0.075	0.357	0.646	ND	-	-	-	-
S-2	1/21/2016	12-14	0.49	0.365	ND	1.03	0.982	1.25	0.839	0.282	0.942	0.169	2.43	0.393	0.598	0.707	2.36	2.15	ND	-	-	-	-
S-3	1/21/2016	8-10	0.0171	ND	ND	0.0739	0.0713	0.0909	0.0446	0.0242	0.0651	0.0147	0.142	ND	0.0404	ND	0.0738	0.129	ND	-	-	-	-
S-4	1/21/2016	5-10	0.377	0.0938	ND	0.943	0.768	0.956	0.488	0.276	0.756	0.143	2.02	0.187	0.42	0.00705	1.49	1.69	ND	-	-	-	-
S-5	1/21/2016	8-10	0.0565	0.031	ND	0.0968	0.076	0.0939	0.0443	0.0258	0.0797	0.0139	0.228	0.0372	0.394	0.0411	0.239	0.194	ND	-	-	-	-
S-6	1/21/2016	6-9	0.0092	0.00694	ND	0.0346	0.0355	0.0047	0.0278	0.0126	0.031	0.00712	0.0644	ND	0.0234	ND	0.0415	0.0693	ND	-	-	-	-
S-7	1/21/2016	8-10	0.555	0.0406	0.0322	0.94	0.691	0.808	0.329	0.214	0.738	0.124	2.29	0.346	0.324	0.0404	3.02	ND	1.94	-	-	-	-
S-8	1/21/2016	8-10	ND	ND	ND	0.00924	0.0117	0.0153	0.00971	ND	0.0105	ND	0.0252	ND	0.00821	ND	0.0153	ND	0.0217	-	-	-	-
S-9	1/21/2016	8-10	0.0204	0.0152	ND	0.105	0.126	0.15	0.0895	0.0391	0.1	0.0225	0.18	0.0121	0.0693	0.0253	0.0825	ND	0.195	-	-	-	-
S-10	1/21/2016	5-9	0.201	0.112	ND	0.519	0.513	0.572	0.373	0.247	0.502	0.102	1.12	0.146	0.299	0.993	0.911	ND	1.09	-	-	-	-
S-11	1/21/2016	5-10	2.41	1.34	ND	4.05	3.44	4.35	2.24	0.849	3.68	0.605	10.2	1.54	1.82	1.42	11.6	ND	9.53	-	-	-	-
DS-1A	2/24-26/2016	3	1.18	ND	ND	1.99	1.45	1.85	0.839	0.638	1.87	ND	5.05	0.778	0.698	ND	5.52	-	4.4	ND	ND	-	-
DS-1B	2/24-26/2016	6	0.123	0.044	ND	0.32	0.312	0.372	0.187	0.0997	0.281	0.0457	0.713	0.0484	0.153	0.0483	0.475	-	0.776	ND	ND	-	-
DS-1C	2/24-26/2016	9	39	8.42	7.88	59	43.3	53.3	21.9	17.7	44.1	7.38	141	33.5	214.4	17.7	220	-	123	8.67	9.93	-	-
DS-2A	2/24-26/2016	3	0.0569	ND	ND	0.149	0.145	0.176	0.1	0.0621	0.139	ND	0.327	ND	0.0801	ND	0.176	-	0.31	ND	ND	-	-
DS-2B	2/24-26/2016	9	0.0171	0.00769	ND	0.0667	0.0723	0.0809	0.0439	0.0239	0.0625	0.0141	0.105	0.0089	0.0378	0.0543	0.0561	-	0.127	ND	ND	-	-
DS-3A	2/24-26/2016	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	-	-
DS-3B	2/24-26/2016	6	0.166	0.0406	ND	0.276	0.231	0.321	0.148	0.107	0.248	0.0429	0.837	0.0507	0.125	0.0387	0.507	-	0.459	ND	ND	-	-
DS-3C	2/24-26/2016	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0116	ND	ND	ND	0.00962	-	0.0119	ND	ND	-	-
DS-4A	2/24-26/2016	3	0.136	0.0553	ND	0.331	0.326	0.304	0.231	0.12	0.301	0.0549	0.495	0.0373	0.145	0.0252	0.462	-	0.71	ND	ND	-	-
DS-4C	2/24-26/2016	6	2.01	0.771	ND	4.64	4.32	5.42	2.71	1.58	4.49	0.686	11.3	0.997	2.16	ND	10.6	-	10.9	ND	ND	-	-
DS-5A	2/24-26/2016	3	0.198	ND	ND	0.699	0.645	0.788	0.697	0.203	0.655	0.104	1.39	ND	0.323	ND	0.676	-	1.42	ND	ND	-	-
DS-5B	2/24-26/2016	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.116	ND	ND	ND	0.0742	-	0.111	ND	ND	-	-
DS-5C	2/24-26/2016	9	0.0288	0.0101	0.0109	0.157	0.154	0.179	0.0685	0.0526	0.143	0.029	0.202	0.0102	0.0698	ND	0.0944	-	0.222	ND	ND	-	-
DS-6A	2/24-26/2016	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	-	-
DS-6B	2/24-26/2016	6	0.0538	ND	ND	0.0864	0.0786	0.0874	0.0454	ND	0.0819	ND	0.198	ND	ND	ND	0.136	-	0.205	ND	ND	-	-
DS-7A	2/24-26/2016	3	0.0205	0.0133	0.0104	0.116	0.109	0.129	0.056	0.0413	0.101	0.0204	0.185	0.0104	0.0549	0.0417	0.0717	-	0.198	ND	ND	-	-
DS-7B	2/24-26/2016	6	3.02	0.221	0.197	3.58	2.3	2.74	1.05	0.995	2.48	0.396	8.55	1.95	0.987	ND	15	-	7.74	ND	ND	-	-
DS-8A	2/24-26/2016	3	ND	ND	ND	0.139	ND	ND	ND	ND	ND	ND	0.221	ND	ND	ND	ND	-	0.225	ND	ND	-	-
DS-8B	2/24-26/2016	6	0.11	ND	ND	0.244	0.253	0.311	0.177	0.088	0.231	ND	0.562	ND	0.141	ND	0.306	-	0.535	ND	ND	-	-
DS-8C	2/24-26/2016	9	0.00723	ND	ND	0.0148	0.0136	0.0201	0.0105	ND	0.0159	ND	0.0335	ND	0.00791	ND	0.0169	-	0.0352	ND	ND	-	-
DS-9A	2/24-26/2016	3	0.35	0.106	ND	1.11	1.01	1.35	0.64	0.413	1.16	0.177	2.32	0.185	0.515	0.29	1.39	-	2.2	ND	ND	-	-
DS-9B	2/24-26/2016	6	ND	ND	ND	ND	ND	0.944	ND	ND	0.734	ND	1.17	ND	ND	ND	1.04	-	1.3	ND	ND	-	-
DS-9C	2/24-26/2016	9	0.139	0.053	ND	0.194	0.161	0.167	0.0885	0.0528	0.152	0.0221	0.395	0.0673	0.0722	ND	0.509	-	0.456	ND	0.0232	-	-
DS-10A	2/24-26/2016	3	0.386	0.284	ND	1.29	1.21	1.43	0.753	0.419	1.13	0.198	2.44	0.235	0.582	0.158	1.18	-	2.86	ND	ND	-	-
DS-10B	2/24-26/2016	6	ND	0.272	ND	0.147	0.241	0.189	0.2	ND	0.18	ND	0.18	ND	ND	ND	0.199	-	0.231	ND	ND	-	-
DS-10C	2/24-26/2016	9	0.696	0.319	ND	1.72	1.53	1.62	0.919	0.514	1.49	0.21	3.19	0.324	0.656	0.341	2.47	-	4.1	ND	ND	-	-
DS-11A	2/24-26/2016	3	0.24	0.114	ND	0.664	0.555	0.671	0.338	0.216	0.553	0.088	1.28	0.0956	0.273	0.0958	0.995	-	1.37	ND	ND	-	-
DS-11B	2/24-26/2016	9	0.957	0.389	ND	1.72	1.41	1.84	0.855	0.559	1.48	0.222	3.61	0.339	0.721	ND	3.03	-	3.56	ND	ND	-	-
DS-12A	2/24-26/2016	3	0.323	ND	ND	1.18	1.16	1.94	0.76	0.449	1.56	0.338	2.22	0.152	0.599	0.598	1.21	-	2.06	ND	ND	-	-
DS-12B	2/24-26/2016	6	0.115	0.0408	ND	0.2688	0.237	0.346	0.17	0.108	0.336	0.0505	0.456	0.0646	0.134	0.222	0.489	-	0.579	ND	0.234	-	-
DS-12C	2/24-26/2016	9	1.12	0.586	ND	1.63	1.3	1.59	0.745	0.448	1.65	0.189	2.82	0.779	0.581	0.751	4.01	-	4.15	ND	ND	-	-
DS-13A	2/24-26/2016	3	0.0366	0.013	ND	0.0306	0.0211	0.0446	0.0213	ND	0.117	0.0105	0.0443	0.0164	0.0119	ND	0.102	-	0.0634	ND	0.0348	-	-
DS-13B	2/24-26/2016	6	0.0555	0.0196	ND	0.181	0.169	0.209	0.114	0.056	0.176	0.0295	0.355	0.0177	0.0874	ND	0.233	-	0.398	ND	ND	-	-
DS-13C	2/24-26/2016	9	0.0158	0.00839	ND	0.0374	0.035	0.0402	0.025	0.0128	0.0341	ND	0.0779	0.00751	0.0194	ND	0.0654	-	0.0858	ND	ND	-	-
DS-14A	2/24-26/2016	3	2.15	0.685	ND	4.69	4.44	5.21	2.95	1.55	4.12	0.723	9.49	0.752	2.34	0.429	7.26	-	9.58	ND	ND	-	-
DS-14B	2/24-26/2016	6	0.673	0.218	ND	1.32	1.11	1.56	0.688	0.387	1.19	0.195	3.4	0.262	0.57	ND	2.43	-	2.64	ND	ND	-	-
DS-14C	2/24-26/2016	9	0.103	0.0467	ND	0.28	0.249	0.275	0.148	0.0782	0.232	0.0362	0.599	0.034	0.113	ND	0.449	-	0.646	ND	ND	-	-
DS-15A	2/24-26/2016	3	195	128	13.8	223	196	217	115	71.7	165	29.5	597	146	93.6	283	877	-	555	59.6	86.6	-	-
DS-15B	2/24-26/2016	6	0.865	0.318	ND	3.6	3.6	4.64	2.4	1.4	3.03	0.711	6.45	0.401	2.09	0.293	3.34	-	6.39	ND	ND	-	-
DS-15C	2/24-26/2016	9	0.144	0.0916	0.0183	0.194	0.161	0.199	0.11	0.0614	0.179	0.0269	0.548	0.107	0.0827	0.232	0.623	-	0.511	0.0789	0.111	-	-
DS-16A	2/24-26/2016	3	0.708	0.29	ND	2.4	2.32	2.66	1.53	0.953	2.01	0.394	4.67	0.312	1.27	0.716	2.71	-	4.83	0.11	0.483	-	-
DS-16B	2/24-26/2016	6	0.0679	0.0354	ND	0.231	0.228	0.295	0.159	0.0781	0.215	0.0423	0.432	0.0352	0.126	0.108	0.328	-	0.748	ND	0.0345	-	-
DS-16C	2/24-26/2016	9	49.9	30.8	ND	54.5	47	54	28	15.9	41.9	6.6	137	35.4	22.2	69.3	189	-	132	ND	ND	-	-
DS-17A	2/24-26/2016	3	1.67	0.579	ND	4.45	4.03	4.77	2.59	1.2	3.62	0.65	8.24	0.762	2.09	0.9	5.95	-	8.98	ND	ND	-	-
DS-17B	2/24-26/2016	6	0.0119	0.00966	ND	0.0274	0.0255	0.0314	0.019	0.00794	0.023	ND	0.054	0.00834	0.0148	ND	0.046	-	0.0592	ND	ND	-	-
DS-17C	2/24-26/2016	9	0.167	0.111	0.0139	0.317	0.284	0.339	0.186	0.101	0.293	0.0481	0.713	0.115	0.144	0.389	0.811	-	0.789	0.078	0.131	-	-
DS-18A	2/24-26/2016	3	0.0427	0.0357	ND	0.179	0.205	0.253	0.164	0.0732	0.158	0.0407	0.297	0.264	0.127	0.039	0.205	-	0.303	ND	ND	-	-
DS-18B	2/24-26/2016	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	-	-
DS-18C	2/24-26/2016	9	0.0662	0.0289	ND	0.156	0.135	0.148	0.082	0.0398	0.144	0.0215	0.309	0.0321	0.0612	0.0812	0.284	-	0.374	0.0263	0.0394	-	-
DS-19A	2/24-26/2016	3	ND	ND	ND	0.0138	0.0162	0.0165	0.0103	ND	0.0125	ND	0.0189	ND	ND	ND	ND	-	0.034	ND	ND	-	-
DS-19B	2/24-26/2016	6	0.174	0.085	ND	0.44	0.655	0.415	0.198	0.113	0.348	0.0594	0.753	0.076	0.158	ND	0.684	-	0.813	ND	ND	-	-
DS-19C	2/24-26/2016	9	0.124	0.051	ND	0.264	0.228	0.266	0.14	0.0672	0.226	0.0354	0.555	0.0601	0.109	0.0955	0.509	-	0.636	0.0485	0.0704	-	-
DS-20A	2/24-26/2016	3	0.16	0.112	0.0391	0.224	0.19	0.195	0.0727	0.0606	0.171	0.027	0.49	0.143	0.0694	0.0524	0.633	-	0.5454	0.528	0.424	-	-
DS-20B	2/24-26/2016	6	0.92	0.915	0.172	1.52	1.39	1.45	0.815	0.454	1.38	0.213	2.53	1.09	0.637	1.33	3.79	-	3.32	7.44	11.1	-	-
DS-20C	2/24-26/2016	9	4.14	1.76	0.087	6.33	5.3	6.08	2.78	1.77	5.03	0.797	16.9	2.11	2.31	0.895	16.1	-	13.2	0.484	0.458	-	-
DS-21A	2/24-26/2016	3	1.04	0.432	ND	2.66	2.43	2.97	1.51	0.753	2.15	0.389	4.92	0.544	1.25	ND	4.38	-	5.27	ND	ND	-	-
DS-21B	2/24-26/2016	6	0.0511	0.0772	ND	0.129	0.131	0.158	0.0881	0.0432	0.113	0.0242	0.287	0.072	0.0728	1.12	0.271	-	0.298	ND	ND	-	-

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
SVOCs - Hits Only
NYSDEC BCP Site C224258 - AVANT GARDNER
111 Gardner and 140 Stewart Avenue
BROOKLYN, NEW YORK

Information																						
Sample No.	Date Collected	Sample Depth (ft.)	Anthracene	Acenapthene	Acenaphthylene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(ghi) pyrene	Bnezo(k) flouranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Indenp(1,2,3-cd)-pyrene	Naphthalene	Phenanthrene	Phenol	Pyrene	1-Methyl naphtalene	2-Methyl naphtalene	2-Methylphenol	3-Methylphenol/4-Methylphenol
NY-UUSCO (mg/kg)			1 mg/kg	20 mg/kg	100 mg/kg	1 mg/kg	1 mg/kg	1 mg/kg	100 mg/kg	0.8 mg/kg	1 mg/kg	0.33 mg/kg	100 mg/kg	30 mg/kg	0.5 mg/kg	12 mg/kg	100 mg/kg	0.33 mg/kg	100 mg/kg	-	-	0.33 mg/kg	0.33 mg/kg
NY-CSCO (mg/kg)			5.6 mg/kg	500 mg/kg	500 mg/kg	5.6 mg/kg	1 mg/kg	5.6 mg/kg	500 mg/kg	56 mg/kg	56 mg/kg	0.56 mg/kg	500 mg/kg	500 mg/kg	5.6 mg/kg	500 mg/kg	500 mg/kg	500 mg/kg	500 mg/kg	-	-	500 mg/kg	500 mg/kg
DS-21C	2/24-26/2016	9	0.0593	0.0383	ND	0.164	0.19	0.201	0.128	0.0747	0.163	0.0301	0.292	0.0343	0.101	0.172	0.243	-	0.341	ND	ND	-	-
DS-22A	2/24-26/2016	3	6.46	2.38	ND	9.73	8.46	8.84	4.85	2.79	9.27	1.21	18.9	3.09	4.07	2.3	25.7	-	24.4	1.8	1.77	-	-
DS-22B	2/24-26/2016	9	1.47	0.912	ND	2.39	2.04	2.2	1.08	0.648	2.05	0.302	4.56	0.927	0.945	0.513	5.68	-	5.47	0.303	0.358	-	-
SB-1	2/13/2017	3-5	ND	ND	ND	1.8	1.7	1.4	ND	1.3	1.8	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
SB-2	2/13/2017	3-5	ND	ND	ND	1.3	1.4	1.3	ND	1.1	1.5	ND	ND	ND	1.1	ND	ND	-	-	-	-	-	-
SB-3	2/13/2017	3-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
SB-4	2/13/2017	3-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
SB-5	2/13/2017	3-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
SB-6	2/13/2017	3-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-
A3	9/2/2017	22-22.5	-	-	-	ND	ND	ND	-	ND	ND	ND	-	-	ND	-	-	0.439	-	-	-	-	-
B6	9/6/2017	21-21.5	-	-	-	2.21	2.12	2.16	-	ND	2.16	ND	-	-	1.38	-	-	ND	-	-	-	-	-
E4	9/1/2017	19.5-20	-	-	-	ND	ND	ND	-	ND	ND	ND	-	-	ND	-	-	4.49	-	-	-	-	-
F2-A	9/5/2017	19.5-20	-	-	-	ND	ND	ND	-	ND	ND	ND	-	-	ND	-	-	ND	-	-	-	-	-
F2-B	9/5/2017	27.5-28	-	-	-	ND	ND	ND	-	ND	ND	ND	-	-	ND	-	-	ND	-	-	-	-	-
F3	9/1/2017	4.5-5	-	-	-	ND	ND	ND	-	ND	ND	ND	-	-	ND	-	-	ND	-	-	-	-	-
F4-Soil	9/6/2017	20-20.5	-	-	-	3.58	3.24	3.47	-	1.36	3.73	0.506	-	-	2.09	-	-	1.78	-	-	-	-	-
G2-A	9/21/2017	14.5-15	-	-	-	ND	ND	ND	-	ND	ND	ND	-	-	ND	-	-	ND	-	-	-	-	-
H1	9/20/2017	7.5-8	-	-	-	ND	ND	ND	-	ND	ND	ND	-	-	ND	-	-	ND	-	-	-	-	-
I2	9/20/2017	6.5-7	-	-	-	ND	ND	ND	-	ND	ND	ND	-	-	ND	-	-	ND	-	-	-	-	-
Tank Sidewall #1	10/20/2017	NA	-	-	-	16	17	14	-	14	18	3,700	-	-	8,500	-	-	-	-	-	-	-	-
Tank Sidewall #1A	1/29/2018	NA	-	-	-	0.79	0.82	0.7	-	0.65	0.85	0.23	-	-	0.47	-	-	-	-	-	-	-	-
Tank Sidewall #2	10/20/2017	NA	-	-	-	3.7	2.6	2.2	-	2.4	3.1	0.49	-	-	1.1	-	-	-	-	-	-	-	-
Tank Sidewall #4	10/20/2017	NA	-	-	-	2.1	1.6	1.4	-	1.5	2	0.33	-	-	0.78	-	-	-	-	-	-	-	-
Tank Bottom	10/20/2017	NA	-	-	-	1.7	1.7	1.4	-	1.7	1.9	0.46	-	-	1.1	-	-	-	-	-	-	-	-
Tank Bottom A	1/29/2018	NA	-	-	-	2.5	2.1	1.9	-	1.7	2.4	0.43	-	-	1	-	-	-	-	-	-	-	-

Legend:

mg/Kg:	milligrams per kilogram, ppm
NY-UUSCO:	New York Unrestricted Use SCO
NY-CSOC:	New York Commercial SCO
ND	Not Detected
-	Not Sampled/Analyzed
4.2	Concentration in excess of NY-UNRES
200	Concentration in excess of NY-COM

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
Metals - Hits Only
NYSDEC BCP Site C224258 - AVANT GARDNER
111 Gardner and 140 Stewart Avenue
BROOKLYN, NEW YORK

Information			Metals Analysis												Other		
Sample No.	Date Collected	Sample Depth (ft.)	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Zinc	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics
NY-UUSCO			13 mg/kg	350 mg/kg	2.5 mg/kg	30 mg/kg	50 mg/kg	63 mg/kg	1,600 mg/kg	0.18 mg/kg	30 mg/kg	3.9 mg/kg	2 mg/kg	109 mg/kg	-	-	-
NY-USCO			16 mg/kg	400 mg/kg	9.3 mg/kg	1,500 mg/kg	270 mg/kg	1,000 mg/kg	10,000 mg/kg	2.8 mg/kg	310 mg/kg	1,500 mg/kg	1,500 mg/kg	10,000 mg/kg	-	-	-
S-1	1/21/2016	10-14	21.5	334	3.37	37.2	-	1,970	-	0.419	-	2.3	-	-	ND	27.5	15.2
S-2	1/21/2016	12-14	26.5	209	ND	39.9	-	246	-	ND	-	4.36	-	-	0.223	93.1	49.4
S-3	1/21/2016	8-10	14.8	70.3	ND	14.3	-	115	-	ND	-	ND	-	-	ND	ND	ND
S-4	1/21/2016	5-10	5.23	4,040	0.986	34.4	-	5,340	-	0.464	-	ND	-	-	ND	ND	51.1
S-5	1/21/2016	8-10	3.99	58.5	ND	20.3	-	43.1	-	0.635	-	ND	-	-	ND	55	36.8
S-6	1/21/2016	6-9	2.71	45.8	ND	19.1	-	12.9	-	0.226	-	ND	-	-	ND	13	7.38
S-7	1/21/2016	8-10	3.92	49.5	ND	21.2	-	34.6	-	0.225	-	ND	-	-	ND	184	103
S-8	1/21/2016	8-10	8.96	60.6	ND	17.5	-	34.1	-	0.65	-	ND	-	-	ND	7.68	6.17
S-9	1/21/2016	8-10	2.98	67.3	ND	17.5	-	26.4	-	0.0634	-	ND	-	-	0.281	ND	4.49
S-10	1/21/2016	5-9	50.3	285	ND	81.4	-	666	-	429	-	ND	-	-	0.775	95.4	98.9
S-11	1/21/2016	5-10	4.22	34.2	1.14	15	-	57	-	4.13	-	ND	-	-	2.31	ND	1,410
DS-1A	2/24-26/2016	3	24.1	423	4.45	44.4	-	933	-	1.31	-	ND	ND	-	NS	NS	NS
DS-1B	2/24-26/2016	6	31.9	116	ND	38.3	-	173	-	0.638	-	ND	ND	-	NS	NS	NS
DS-1C	2/24-26/2016	9	263	2,140	1.57	64.8	-	4,400	-	5.67	-	ND	ND	-	NS	NS	NS
DS-2A	2/24-26/2016	3	8.53	1,790	0.776	48.2	-	287	-	0.266	-	ND	ND	-	NS	NS	NS
DS-2B	2/24-26/2016	9	25.3	95.8	ND	41.6	-	88.9	-	0.316	-	ND	ND	-	NS	NS	NS
DS-3A	2/24-26/2016	3	2.56	127	0.833	18.1	-	339	-	0.435	-	ND	ND	-	NS	NS	NS
DS-3B	2/24-26/2016	6	5.75	173	0.657	457	-	343	-	1.71	-	ND	ND	-	NS	NS	NS
DS-3C	2/24-26/2016	9	ND	33.3	ND	24.5	-	22.1	-	0.416	-	ND	ND	-	NS	NS	NS
DS-4A	2/24-26/2016	3	5.55	59	ND	15.1	-	90.6	-	0.18	-	ND	ND	-	NS	NS	NS
DS-4C	2/24-26/2016	6	32.9	514	ND	41.2	-	587	-	0.936	-	ND	ND	-	NS	NS	NS
DS-5A	2/24-26/2016	3	3.07	91.6	ND	47.6	-	69.5	-	1.95	-	ND	ND	-	NS	NS	NS
DS-5B	2/24-26/2016	6	6.19	51.8	ND	69.3	-	41.1	-	4.05	-	ND	ND	-	NS	NS	NS
DS-5C	2/24-26/2016	9	4.28	55.7	ND	14	-	117	-	0.749	-	ND	ND	-	NS	NS	NS
DS-6A	2/24-26/2016	3	ND	64.7	ND	8.83	-	54	-	0.0671	-	ND	ND	-	NS	NS	NS
DS-6B	2/24-26/2016	6	4.44	63.7	ND	23.4	-	46	-	0.11	-	ND	ND	-	NS	NS	NS
DS-7A	2/24-26/2016	3	4.71	62.8	ND	18.2	-	583	-	0.53	-	ND	ND	-	NS	NS	NS
DS-7B	2/24-26/2016	6	2.65	48.8	ND	17.2	-	47.8	-	0.449	-	ND	ND	-	NS	NS	NS
DS-8A	2/24-26/2016	3	4.28	75.5	ND	19.8	-	247	-	0.252	-	ND	ND	-	NS	NS	NS
DS-8B	2/24-26/2016	6	10.5	983	1.94	37.8	-	984	-	2.59	-	ND	ND	-	NS	NS	NS
DS-8C	2/24-26/2016	9	2.71	5,570	ND	91.7	-	69.1	-	0.204	-	2.42	ND	-	NS	NS	NS
DS-9A	2/24-26/2016	3	10	189	0.718	25.2	-	3,900	-	2.08	-	ND	ND	-	NS	NS	NS
DS-9B	2/24-26/2016	6	2.41	54.5	ND	13.6	-	60.8	-	0.51	-	ND	ND	-	NS	NS	NS
DS-9C	2/24-26/2016	9	ND	63.7	ND	26.7	-	36.6	-	1.13	-	ND	ND	-	NS	NS	NS
DS-10A	2/24-26/2016	3	22.8	289	2.06	32.2	-	506	-	0.651	-	ND	ND	-	NS	NS	NS
DS-10B	2/24-26/2016	6	11.3	67.2	ND	14.8	-	94.6	-	3.53	-	ND	ND	-	NS	NS	NS
DS-10C	2/24-26/2016	9	ND	230	ND	39.1	-	615	-	52.3	-	ND	ND	-	NS	NS	NS
DS-11A	2/24-26/2016	3	ND	702	ND	37.2	-	565	-	0.99	-	ND	ND	-	NS	NS	NS
DS-11B	2/24-26/2016	9	5.06	718	1.4	47.4	-	310	-	0.68	-	ND	ND	-	NS	NS	NS
DS-12A	2/24-26/2016	3	20.8	244	1.5	27.3	-	331	-	0.331	-	ND	ND	-	NS	NS	NS
DS-12B	2/24-26/2016	6	33.4	435	ND	46.3	-	1,100	-	1.06	-	ND	ND	-	NS	NS	NS
DS-12C	2/24-26/2016	9	15.1	98.5	ND	62.1	-	286	-	95	-	ND	3.61	-	NS	NS	NS
DS-13A	2/24-26/2016	3	11.3	147	ND	13.3	-	364	-	0.249	-	ND	ND	-	NS	NS	NS
DS-13B	2/24-26/2016	6	9.91	152	1.2	17.7	-	380	-	0.477	-	ND	ND	-	NS	NS	NS
DS-13C	2/24-26/2016	9	5.63	77.2	ND	21	-	279	-	0.201	-	ND	ND	-	NS	NS	NS
DS-14A	2/24-26/2016	3	2.61	38.8	ND	13.4	-	12.3	-	6.24	-	ND	ND	-	NS	NS	NS
DS-14B	2/24-26/2016	6	9.97	127	1.26	94.3	-	411	-	0.933	-	ND	ND	-	NS	NS	NS
DS-14C	2/24-26/2016	9	8.94	119	1.54	14.4	-	311	-	1.97	-	ND	ND	-	NS	NS	NS
DS-15A	2/24-26/2016	3	12.1	139	ND	11.3	-	873	-	7.47	-	ND	ND	-	NS	NS	NS

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
Metals - Hits Only
NYSDEC BCP Site C224258 - AVANT GARDNER
111 Gardner and 140 Stewart Avenue
BROOKLYN, NEW YORK

Information			Metals Analysis												Other		
Sample No.	Date Collected	Sample Depth (ft.)	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Zinc	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics
NY-UUSCO			13 mg/kg	350 mg/kg	2.5 mg/kg	30 mg/kg	50 mg/kg	63 mg/kg	1,600 mg/kg	0.18 mg/kg	30 mg/kg	3.9 mg/kg	2 mg/kg	109 mg/kg	-	-	-
NY-USCO			16 mg/kg	400 mg/kg	9.3 mg/kg	1,500 mg/kg	270 mg/kg	1,000 mg/kg	10,000 mg/kg	2.8 mg/kg	310 mg/kg	1,500 mg/kg	1,500 mg/kg	10,000 mg/kg	-	-	-
DS-15B	2/24-26/2016	6	5.75	48.3	ND	32.7	-	108	-	0.988	-	ND	ND	-	NS	NS	NS
DS-15C	2/24-26/2016	9	23.5	136	1.2	74.8	-	1,350	-	0.13	-	ND	ND	-	NS	NS	NS
DS-16A	2/24-26/2016	3	20.7	171	ND	16.8	-	700	-	13	-	ND	ND	-	NS	NS	NS
DS-16B	2/24-26/2016	6	6.71	60	1.87	252	-	124	-	0.654	-	ND	ND	-	NS	NS	NS
DS-16C	2/24-26/2016	9	6.22	309	ND	14.2	-	3,720	-	ND	-	ND	ND	-	NS	NS	NS
DS-17A	2/24-26/2016	3	11.4	231	1.41	19.9	-	792	-	2.41	-	ND	ND	-	NS	NS	NS
DS-17B	2/24-26/2016	6	12.7	50.4	ND	29.5	-	35.3	-	0.172	-	ND	ND	-	NS	NS	NS
DS-17C	2/24-26/2016	9	13.8	384	ND	20.6	-	578	-	3.56	-	4.03	ND	-	NS	NS	NS
DS-18A	2/24-26/2016	3	7.72	290	1.51	23.4	-	817	-	0.178	-	ND	ND	-	NS	NS	NS
DS-18B	2/24-26/2016	6	3	45.8	ND	17.3	-	41.1	-	0.246	-	ND	ND	-	NS	NS	NS
DS-18C	2/24-26/2016	9	5.01	191	ND	14.6	-	119	-	0.419	-	ND	ND	-	NS	NS	NS
DS-19A	2/24-26/2016	3	10.5	165	ND	18.8	-	332	-	0.0377	-	ND	ND	-	NS	NS	NS
DS-19B	2/24-26/2016	6	7.81	43.9	ND	17.1	-	67.2	-	0.0439	-	ND	ND	-	NS	NS	NS
DS-19C	2/24-26/2016	9	8.39	134	0.706	14	-	198	-	0.283	-	2.53	ND	-	NS	NS	NS
DS-20A	2/24-26/2016	3	3.87	37.2	ND	14.8	-	12.1	-	0.036	-	ND	ND	-	NS	NS	NS
DS-20B	2/24-26/2016	6	10.7	85.8	ND	28.7	-	129	-	0.513	-	ND	ND	-	NS	NS	NS
DS-20C	2/24-26/2016	9	24.5	195	ND	18.4	-	84.7	-	0.0536	-	5.95	ND	-	NS	NS	NS
DS-21A	2/24-26/2016	3	12.3	130	1.68	25.8	-	553	-	0.252	-	ND	ND	-	NS	NS	NS
DS-21B	2/24-26/2016	6	8.56	97.4	ND	24.9	-	149	-	0.272	-	ND	ND	-	NS	NS	NS
DS-21C	2/24-26/2016	9	30.3	3,920	2.46	27.9	-	5,670	-	3.09	-	ND	ND	-	NS	NS	NS
DS-22A	2/24-26/2016	3	9.36	356	1.24	14.1	-	973	-	2.07	-	ND	ND	-	NS	NS	NS
DS-22B	2/24-26/2016	9	15.5	695	8.49	24	-	2,710	-	1.32	-	ND	ND	-	NS	NS	NS
SB-1	2/13/2017	3-5	ND	ND	ND	ND	53.5	145	-	1.04	-	ND	ND	126	NS	NS	NS
SB-2	2/13/2017	3-5	ND	398	ND	ND	147	588	-	5.52	-	ND	ND	702	NS	NS	NS
SB-3	2/13/2017	3-5	ND	ND	ND	39.1	ND	132	-	ND	-	ND	ND	ND	NS	NS	NS
SB-4	2/13/2017	3-5	17	ND	ND	ND	170	238	-	1.07	-	ND	ND	237	NS	NS	NS
SB-5	2/13/2017	3-5	ND	ND	ND	ND	ND	87.6	-	ND	-	ND	ND	ND	NS	NS	NS
SB-6	2/13/2017	3-5	ND	ND	ND	ND	ND	122	-	0.29	-	ND	ND	ND	NS	NS	NS
A3	9/2/2017	22-22.5	ND	-	-	-	ND	ND	ND	ND	ND	-	-	ND	NS	NS	NS
B6	9/6/2017	21-21.5	ND	-	-	-	ND	ND	ND	ND	ND	-	-	113	NS	NS	NS
E4	9/1/2017	19.5-20	ND	-	-	-	ND	ND	ND	ND	ND	-	-	ND	NS	NS	NS
F2-A	9/5/2017	19.5-20	15.5	-	-	-	510	1,100	ND	6.5	ND	-	-	435	NS	NS	NS
F2-B	9/5/2017	27.5-28	ND	-	-	-	ND	ND	ND	ND	ND	-	-	ND	NS	NS	NS
F3	9/1/2017	4.5-5	ND	-	-	-	ND	ND	ND	0.36	ND	-	-	ND	NS	NS	NS
F4-Soil	9/6/2017	20-20.5	20.7	-	-	-	54.7	946	1,790	1	60	-	-	264	NS	NS	NS
G2-A	9/21/2017	14.5-15	23.8	-	-	-	94.4	1,420	ND	1.5	ND	-	-	248	NS	NS	NS
H1	9/20/2017	7.5-8	ND	-	-	-	ND	ND	ND	0.37	ND	-	-	ND	NS	NS	NS
I2	9/20/2017	6.5-7	ND	-	-	-	ND	ND	ND	1.1	ND	-	-	ND	NS	NS	NS

Legend:

mg/Kg:	milligrams per kilogram, ppm
NY-UUSCO:	New York Unrestricted Use SCO
NY-CSOC:	New York Commercial SCO
ND	Not Detected
-	Not Sampled/Analyzed
4.2	Concentration in excess of NY-UNRES
200	Concentration in excess of NY-COM

TABLE 2
Historical Groundwater Analytical Results
VOCs - Hits Only
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue and 140 Stewart Avenue
BROOKLYN, NEW YORK

Information			Volatiles																		
Sample No.	Date Collected	Sample Depth (ft.)	1,1-DCA	1,1-DCE	1,2,4-Trimethyl benzene	1,2,3-Trimbethyl benzene	1,3,5-Trimethyl benzene	1,2-Dichloro benzene	1,4-Dichloro benzene	Benzene	cis-1,2-DCE	Ethyl benzene	Naphthalene	p-Isopropyl toluene	Methyl Tert-Butyl Ether	sec-butyl benzene	PCE	Toluene	trans-1,2-DCE	TCE	Vinyl chloride	Total Xylenes
NY AMBIENT WATER QUALITY STANDARDS VALUES			5 ug/L	5 ug/L	5 ug/L	5 ug/L	5 ug/L	5 ug/L	5 ug/L	1 ug/L	5 ug/L	5 ug/L	-	5 ug/L	10 ug/L	5 ug/L	5 ug/L	5 ug/L	5 ug/L	5 ug/L	2 ug/L	5 ug/L
NY AMBIENT WATER QUALITY GUIDANCE VALUES			-	-	-	-	-	-	-	-			10 ug/L	-	-	-	-	-	-	-	-	-
GW-1	1/21/2016	14	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	ND	-	ND	ND	ND	-
GW-2	1/21/2016	9	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	ND	-	ND	ND	ND	-
GW-3	1/21/2016	11	-	-	-	-	-	-	-	-	124	-	-	-	-	-	46.1	-	3.91	9.65	17.8	-
GW-4	1/21/2016	10	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	ND	-	ND	ND	ND	-
MGW-1	2/24-26/2016	18	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	1.12	ND	ND	ND	-	ND	ND	ND
MGW-2	2/24-26/2016	18	1.38	10.8	15.8	8.41	7.86	19.9	2.3	-	ND	2.01	4.74	7.91	ND	1.22	34,900	7.05	-	3,360	650	10.3
MGW-3	2/24-26/2016	18	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND
MGW-4	2/24-26/2016	18	ND	ND	ND	ND	ND	ND	ND	-	1.11	ND	0.646	3.91	ND	ND	12.2	ND	-	0.0215	0.00302	ND
GW-1 (13-15)	2/8/2017	13-15	NE	NE	NE	-	-	NE	-	NE	21	-	NE	NE	-	-	20	NE	NE	NE	6.1	10
GW-1 (28-30)	2/8/2017	28-30	9.2	NE	NE	-	-	NE	-	NE	NE	-	NE	NE	-	-	NE	NE	NE	NE	NE	NE
GW-1 (43-45)	2/8/2017	43-45	7.8	NE	NE	-	-	NE	-	NE	NE	-	NE	NE	-	-	7.1	NE	NE	NE	NE	NE
GW-2 (13-15)	2/13/2017	13-15	NE	NE	NE	-	-	NE	-	NE	NE	-	NE	NE	-	-	NE	NE	NE	NE	NE	NE
GW-2 (28-30)	2/13/2017	28-30	7	NE	NE	-	-	NE	-	NE	12	-	NE	NE	-	-	NE	NE	NE	NE	NE	NE
GW-2 (43-45)	2/13/2017	43-45	NE	NE	NE	-	-	NE	-	NE	29	-	NE	7	-	-	NE	NE	NE	22	3.1	NE
GW-3 (13-15)	2/13/2017	13-15	NE	NE	NE	-	-	NE	-	NE	ND	-	NE	NE	-	-	NE	NE	NE	NE	NE	NE
GW-3 (28-30)	2/13/2017	28-30	NE	NE	NE	-	-	NE	-	NE	ND	-	NE	NE	-	-	NE	NE	NE	NE	NE	NE
GW-3 (43-45)	2/13/2017	43-45	NE	NE	NE	-	-	NE	-	NE	ND	-	NE	NE	-	-	NE	NE	NE	28	NE	NE
GW-4 (13-15)	2/13/2017	13-15	NE	NE	NE	-	-	NE	-	NE	ND	-	NE	NE	-	-	NE	NE	NE	NE	NE	NE
GW-4 (28-30)	2/13/2017	28-30	6.6	NE	NE	-	-	NE	-	NE	ND	-	NE	NE	-	-	NE	NE	NE	NE	NE	NE
GW-4 (43-45)	2/13/2017	43-45	15	NE	NE	-	-	NE	-	NE	9.8	-	NE	NE	-	-	NE	NE	NE	NE	NE	NE
GW-5 (13-15)	2/8/2017	13-15	NE	NE	NE	-	-	NE	-	2.5	910	-	210	NE	-	-	27	5.3	6	5.5	6.4	5.7
GW-5 (28-30)	2/8/2017	28-30	NE	13	7.6	-	-	4.8	-	2	490	-	92	NE	-	-	12,000	NE	NE	330	NE	5.5
GW-5 (43-45)	2/8/2017	43-45	NE	NE	NE	-	-	NE	-	ND	29	-	12	NE	-	-	1,400	NE	NE	29	2.6	NE
A1-Deep	9/5/2017	78-83	-	-	-	-	-	-	-	NE	-	-	-	-	-	-	13.4	-	-	12.7	NE	NE
B6	9/7/2017	25-30	-	-	-	-	-	-	-	3.9	-	-	-	-	-	-	NE	-	-	NE	NE	NE
B6 (Lab Filtered)	9/7/2017	25-30	-	-	-	-	-	-	-	NS	-	-	-	-	-	-	NE	-	-	NE	NE	NE
B6-Deep	9/7/2017	100-104	-	-	-	-	-	-	-	NE	-	-	-	-	-	-	NE	-	-	6.9	NE	NE
F4-GW	9/6/2017	20-25	-	-	-	-	-	-	-	NE	-	-	-	-	-	-	NE	-	-	NE	NE	12.2
F4-GW (Lab Filtered)	9/6/2017	20-25	-	-	-	-	-	-	-	NE	-	-	-	-	-	-	NE	-	-	NE	NE	NS
F4-Deep	9/6/2017	105-109	-	-	-	-	-	-	-	NE	-	-	-	-	-	-	134	-	-	96.3	NE	NE
I1	9/20/2017	15-20	-	-	-	-	-	-	-	NE	-	-	-	-	-	-	NE	-	-	NE	8.8	NE

Legend:

ug/L Micrograms per Liter
ND Not Detected
NE Not Exceeded
25 Concentration in excess of most stringent criteria
26 Concentration in excess of the guidance value
PCE Tetrachloroethene
TCE Trichloroethene
cis-1,2-DCE cis-1,2-Dichloroethene
1,1-DCA 1,1-Dichloroethane
1,1-DCE 1,1-Dichloroethene
trans-1,2-DCE trans-1,2-Dichloroethene

TABLE 3
Remedial Investigation Site Sampling Summary
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

AOC	MATRIX	MIP LOG	Sample ID	SAMPLE DEPTH*	ANALYTCAL PARAMETERS (EPA method)	TOTAL DEPTH
1	SOIL	MIP-20	**1-B1(7.5-8.5)**	7.5-8.5	VOCs (8260), SVOCs (8270), TAL metals (6010), PCBs (8082), pesticides (8081), and ECs (537/8270SIM)	35'
			1-B1 (24.5-25)	24.5-25.0	VOCs (8260)	
1	SOIL	MIP-20	**1-B2(7.5-8.5)**	7.5-8.5	VOCs (8260) and SVOCs (8270)	15'
2	SOIL	MIP-E3	**2-B2 (9.5-10)**	9.5-10.0	VOCs (8260) and SVOCs (8270)	15'
2	SOIL	MIP-C3	**2-B1 (7.5-8)**	7.5-8.0	VOCs (8260) and SVOCs (8270)	35'
			2-B1 (24.5-25)	24.5-25.0	VOCs (8260)	
3	SOIL	MIP-F4	**3-B1 (7.5-8)**	7.5-8.0	VOCs (8260), SVOCs (8270), TAL metals (6010), PCBs (8082), pesticides (8081), and ECs (537/8270SIM)	35'
			3-B1 (17.5-18)	17.5-18.0	VOCs (8260)	
4	SOIL	MIP-17	**4-B2 (6.5-7)**	6.5-7.0	VOCs (8260) and SVOCs (8270)	15'
4	SOIL	MIP-18	**4-B1 (6.5-7)**	6.5-7.0	VOCs (8260), SVOCs (8270), TAL metals (6010), PCBs (8082), pesticides (8081), and ECs (537/8270SIM)	35'
			4-B1 (24-24.5)	24.0-24.5	VOCs (8260)	
5	SOIL	MIP-25	**5-B1 (8.5-9)**	8.5-9.0	VOCs (8260) and SVOCs (8270)	15'
6	SOIL	MIP-09	**6-B1 (5.5-6)**	5.5-6.0	VOCs (8260) and SVOCs (8270)	15'
7	SOIL	MIP-01	**7-B4 (6-6.5)**	6.0-6.5	VOCs (8260) and SVOCs (8270)	15'
7	SOIL	MIP-06	**7-B1 (9-10)**	9-10	VOCs (8260), SVOCs (8270), TAL metals (6010), PCBs (8082), pesticides (8081), and ECs (537/8270SIM)	35'
			7-B1 (27-27.5)	27.0-27.5	VOCs (8260)	
7	SOIL	West of MIP-06	**7-B1W (1.5-2)**	1.5-2.0	VOCs (8260)	15'
			7-B1W (4.5-5)	4.5-5.0	VOCs (8260)	15'
			7-B1W (6.5-7)	6.5-7.0	VOCs (8260)	15'
7	SOIL	West of MIP-06	**7-B1WW (1-1.5)**	1.0-1.5	VOCs (8260)	15'
			7-B1WW (4-4.5)	4.0-4.5	VOCs (8260)	15'
			7-B1WW (4.5-5)	4.5-5.0	VOCs (8260)	15'
7	SOIL	East of MIP-06	**7-B1E (1.5-2)**	1.5-2.0	VOCs (8260)	15'
			7-B1E (4-4.5)	4.0-4.5	VOCs (8260)	15'
			7-B1E (4.5-5)	4.5-5.0	VOCs (8260)	15'
7	SOIL	North of MIP-06	**7-B1N (1.5-2)**	1.5-2.0	VOCs (8260)	15'
			7-B1N (4-4.5)	4.0-4.5	VOCs (8260)	15'
7	SOIL	South of MIP-06	**7-B1S (1.5-2)**	1.5-2.0	VOCs (8260)	15'
			7-B1S (4-4.5)	4.0-4.5	VOCs (8260)	15'
			7-B1S (5.5-6)	5.5-6.0	VOCs (8260)	15'
7	SOIL	South of MIP-06	**7-B1SS (5-5.5)**	5.0-5.5	VOCs (8260)	15'
7	SOIL	West of MIP-06	**7-B2 (6.5-7)**	6.5-7.0	VOCs (8260), SVOCs (8270), TAL metals (6010), PCBs (8082), pesticides (8081), and ECs (537/8270SIM)	35'
			7-B2 (14-14.5)	14.0-14.5	VOCs (8260)	
7	SOIL	MIP-22	**7-B3(10.5-11.5)**	10.5-11.5	VOCs (8260) and SVOCs (8270)	15'
8	SOIL	MIP-04	**8-B1(2-3)**	2-3	VOCs (8260), SVOCs (8270), TAL metals (6010), PCBs (8082), pesticides (8081), and ECs (537/8270SIM)	15'
			8-B1 (7.5-8)	7.5-8.0	VOCs (8260) and SVOCs (8270)	
			8-B1 (14-15)	14.0-15.0	VOCs (8260), SVOCs (8270), and TAL metals (6010)	
8	SOIL	North of MIP-04	**8B-1N (5.0-5.5)**	5.0-5.5	TAL metals (6010)	15'
8	SOIL	North of MIP-04	**8B-1NN (1.5-2.0)**	1.5-2.0	TAL metals (6010)	15'
			8B-1NN (4.5-5.0)	4.5-5.0	TAL metals (6010)	
			8B-1NN (6.0-6.5)	6.0-6.5	TAL metals (6010)	
8	SOIL	East of MIP-04	**8B-1E (6.0-6.5)**	6.0-6.5	TAL metals (6010)	15'
8	SOIL	South of MIP-04	**8B-1S (1.5-2)**	1.5-2.0	TAL metals (6010)	15'
			8B-1S (4.5-5)	4.5-5.0	TAL metals (6010)	
			8B-1S (6.5-7)	6.5-7.0	TAL metals (6010)	
8	SOIL	South of MIP-04	**8B-1SS (1.5-2)**	1.5-2.0	TAL metals (6010)	15'
			8B-1SS (4.5-5)	4.5-5.0	TAL metals (6010)	
			8B-1SS (6.5-7)	6.5-7.0	TAL metals (6010)	

TABLE 3
Remedial Investigation Site Sampling Summary
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

AOC	MATRIX	MIP LOG	Sample ID	SAMPLE DEPTH*	ANALYTCAL PARAMETERS (EPA method)	TOTAL DEPTH
8	SOIL	West of MIP-04	**8B-1W (1.5-2)**	1.5-2.0	TAL metals (6010)	15'
			8B-1W (4.5-5)	4.5-5.0	TAL metals (6010)	
			8B-1W (6.5-7)	6.5-7.0	TAL metals (6010)	
8	SOIL	West of MIP-04	**8B-1WW (1-1.5)**	1.0-1.5	TAL metals (6010)	15'
			8B-1WW (4.5-5)	4.5-5.0	TAL metals (6010)	
			8B-1WW (6-6.5)	6.0-6.5	TAL metals (6010)	
9	SOIL	MIP-I2	**9-B1(6-7)**	6-7	VOCs (8260), SVOCs (8270), TAL metals (6010), PCBs (8082), pesticides (8081), and ECs (537/8270SIM)	15'
	SOIL	MIP-I2	**9-B1 (8.5-9)**	8.5-9.0	VOCs (8260) and SVOCs (8270)	
10	SOIL	MIP-02	**10-B3(7-8)**	7-8	VOCs (8260) and SVOCs (8270)	15'
10	SOIL	MIP-16	**10-B4(7-8)**	7.0-8.0	VOCs (8260) and SVOCs (8270)	35'
			10-B4 (18-18.5)	18.0-18.5	VOCs (8260)	
10	SOIL	NW of MIP-09	**10-B5 (6.5-7)**	6.5-7.0	VOCs (8260) and SVOCs (8270)	15'
10	SOIL	West of MIP-15	**10-B1 (8.5-9)**	8.5-9.0	VOCs (8260) and SVOCs (8270)	35'
			10-B1 (22-22.5)	22.0-22.5	VOCs (8260)	
10	SOIL	MIP-30	**10-B6 (3.5-4.5)**	3.5-4.5	VOCs (8260) and SVOCs (8270)	15'
10	SOIL	West of MIP-30	**10-B6W (1.5-2)**	1.5-2.0	VOCs (8260)	15'
			10-B6W (4.5-5)	4.5-5.0	VOCs (8260)	15'
			10-B6W (7.5-8)	7.5-8.0	VOCs (8260)	15'
10	SOIL	West of MIP-30	**10-B6WW (4.5-5)**	4.5-5.0	VOCs (8260)	15'
			10-B6WW (9.5-10)	9.5-10.0	VOCs (8260)	15'
10	SOIL	North of MIP-30	**10-B6N (1.5-2)**	1.5-2.0	VOCs (8260)	15'
			10-B6N (4.5-5)	4.5-5.0	VOCs (8260)	15'
			10-B6N (9.5-10)	9.5-10.0	VOCs (8260)	15'
10	SOIL	East of MIP-30	**10-B6E (1.5-2)**	1.5-2.0	VOCs (8260)	15'
			10-B6E (4.5-5)	4.5-5.0	VOCs (8260)	15'
			10-B6E (9.5-10)	9.5-10.0	VOCs (8260)	15'
10	SOIL	East of MIP-30	**10-B6EE (1.5-2)**	1.5-2.0	VOCs (8260)	15'
			10-B6EE (5-5.5)	5.0-5.5	VOCs (8260)	15'
10	SOIL	South of MIP-30	**10-B6S (1.5-2)**	1.5-2.0	VOCs (8260)	15'
			10-B6S (4.5-5)	4.5-5.0	VOCs (8260)	15'
			10-B6S (9.5-10)	9.5-10.0	VOCs (8260)	15'
10	SOIL	MIP-34	**10-B2 (8.5-9)**	8.5-9.0	VOCs (8260), SVOCs (8270), TAL metals (6010), PCBs (8082), pesticides (8081), and ECs (537/8270SIM)	35'
			10-B2 (34.5-35)	34.5-35.0	VOCs (8260)	
1	GROUNDWATER	MIP-20	**1-TW1(5-15)**	5-15	VOCs (8260), SVOCs (8270), TAL metals (filtered/non-filtered) (6010), PCBs (8082), pesticides (8081), and ECs (537/8270SIM)	15'
2	GROUNDWATER	MIP-C3	**2-TW1(10-20)**	10-20	VOCs (8260)	20'
3	GROUNDWATER	MIP-F4	**3-TW2(10-20)**	10-20	VOCs (8260)	70'
			3-TW2(65-70)	65-70	VOCs (8260)	
3	GROUNDWATER	MIP-F4	**3-TW3(10-20)**	10-20	VOCs (8260)	70'
			3-TW3(65-70)	65-70	VOCs (8260)	
3	GROUNDWATER	MIP-F4	**3-TW4(10-20)**	10-20	VOCs (8260)	70'
			3-TW4(65-70)	65-70	VOCs (8260)	
3	GROUNDWATER	MIP-F4	**3-TW5(10-20)**	10-20	VOCs (8260)	70'
			3-TW5(65-70)	65-70	VOCs (8260)	
3	GROUNDWATER	MIP-F4	**3-TW1(65-70)**	65-70	VOCs (8260)	110'
			3-TW1(105-110)	105-110	VOCs (8260)	
4	GROUNDWATER	MIP-18	**4-TW1(20-30)**	20-30	VOCs (8260) and SVOCs (8270)	30'
7	GROUNDWATER	MIP-06	**7-TW1(25-30)**	25-30	VOCs (8260) and SVOCs (8270)	30'
7	GROUNDWATER	West of MIP-06	**7-TW2(20-30)**	20-30	VOCs (8260) and SVOCs (8270)	30'
7	GROUNDWATER	MIP-22	**7-TW3(5-15)**	5-15	VOCs (8260) and SVOCs (8270)	15'
8	GROUNDWATER	North of MIP-04	**8B-1N-GW**	5-15	TAL metals (filtered/non-filtered) (6010)	15'
8	GROUNDWATER	North of MIP-04	**8B-1NN-GW**	5-15	TAL metals (filtered/non-filtered) (6010)	15'
8	GROUNDWATER	East of MIP-04	**8B-1E-GW**	5-15	TAL metals (filtered/non-filtered) (6010)	15'
8	GROUNDWATER	South of MIP-04	**8B-1S-GW**	5-15	TAL metals (filtered/non-filtered) (6010)	15'
8	GROUNDWATER	South of MIP-04	**8B-1SS-GW**	5-15	TAL metals (filtered/non-filtered) (6010)	15'

TABLE 3
Remedial Investigation Site Sampling Summary
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

AOC	MATRIX	MIP LOG	Sample ID	SAMPLE DEPTH*	ANALYTCAL PARAMETERS (EPA method)	TOTAL DEPTH
8	GROUNDWATER	West of MIP-04	**8B-1W-GW**	5-15	TAL metals (filtered/non-filtered) (6010)	15'
8	GROUNDWATER	West of MIP-04	**8B-1WW-GW**	5-15	TAL metals (filtered/non-filtered) (6010)	15'
9	GROUNDWATER	MIP-I2	**9-TW1(5-15)**	5-15	VOCs (8260), SVOCs (8270), TAL metals (filtered/non-filtered) (6010), PCBs (8082), pesticides (8081), and ECs (537/8270SIM)	30'
			9-TW1(20-30)	20-30	VOCs (8260) and SVOCs (8270)	
10	GROUNDWATER	MIP-34	**10-TW2(65-70)**	65-70	VOCs (8260)	110'
			10-TW2(105-110)	105-110	VOCs (8260)	
10	GROUNDWATER	west of MIP-15	**10-TW1(5-15)**	5-15	VOCs (8260) and SVOCs (8270)	30'
			10-TW1(20-30)	20-30	VOCs (8260) and SVOCs (8270)	
offsite	GROUNDWATER	E offsite	**0-TW1(65-70)**	65-70	VOCs (8260)	110'
			0-TW1(105-110)	105-110	VOCs (8260)	
offsite	GROUNDWATER	NE offsite	**0-TW2(65-70)**	65-70	VOCs (8260)	70'
3	PERM WELL	MIP-F4	**MW-4**	5-20	VOCs (8260), SVOCs (8270), TAL metals (filtered/non-filtered) (6010), PCBs (8082), pesticides (8081), and ECs (537/8270SIM)	20'
4	PERM WELL	MIP-18	**MW-1**	5-20	VOCs (8260), SVOCs (8270), TAL metals (filtered/non-filtered) (6010), PCBs (8082), pesticides (8081), and ECs (537/8270SIM)	15'
7	PERM WELL	MIP-06	**MW-2**	5-20	VOCs (8260), SVOCs (8270), TAL metals (filtered/non-filtered) (6010), PCBs (8082), pesticides (8081), and ECs (537/8270SIM)	15'
10	PERM WELL	MIP-34	**MW-3**	5-20	VOCs (8260), SVOCs (8270), TAL metals (filtered/non-filtered) (6010), PCBs (8082), pesticides (8081), and ECs (537/8270SIM)	15'
offsite	PERM WELL	E offsite	**MW-6**	5-20	VOCs (8260) and SVOCs (8270)	15'
offsite	PERM WELL	NE offsite	**MW-5**	5-20	VOCs (8260) and SVOCs (8270)	15'
1	SOIL VAPOR	N/A	**SV-1**	0-5	VOCs (TO-15) and methane (C3)	5'
2	SOIL VAPOR	N/A	**SV-2**	0-5	VOCs (TO-15) and methane (C3)	5'
7	SOIL VAPOR	N/A	**SV-3**	0-5	VOCs (TO-15) and methane (C3)	5'
9	SOIL VAPOR	N/A	**SV-4**	0-5	VOCs (TO-15) and methane (C3)	5'
10	SOIL VAPOR	N/A	**SV-5**	0-5	VOCs (TO-15) and methane (C3)	5'
10	SOIL VAPOR	N/A	**SV-6**	0-5	VOCs (TO-15) and methane (C3)	5'

TABLE 4
Remedial Investigation Soil Analytical Results
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Volatiles (SW846 8260C)																			
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	PCE	TCE	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloro benzene	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Methylene chloride	Vinyl chloride	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	Acetone	Chloroform	2-Butanone	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	1,4-Dioxane
NY-UNRES (mg/kg)				1.3	0.47	0.68	0.27	0.33	1.1	0.2	0.25	0.19	0.05	0.02	0.06	0.7	1	0.26	12	0.05	0.37	0.12	3.6	8.4	0.1
NY-COM (mg/kg)				150	200	500	240	500	500	30	500	500	500	13	44	500	390	500	500	500	350	500	190	190	130
NY-Protection of GW (mg/kg)				1.3	0.47	0.68	0.27	0.33	1.1	0.2	0.25	0.19	0.05	0.02	0.06	0.7	1	1.6	12	0.05	0.37	0.12	3.6	8.4	0.1
1-B1(7.5-8.5)	L2126901-03	5/20/2021	7.5-8.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0028	ND	0.00087 J	0.0039	0.1	0.042	ND	ND	ND	0.0034	ND
1-B1 (24.5-25)	L2126901-04	5/20/2021	24.5-25.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00084 J	ND	ND	0.3	ND	0.068	ND	ND	ND
1-B2(7.5-8.5)	L2126281-02	5/18/2021	7.5-8.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.023	0.00013 J	ND	ND	ND	ND
2-B1 (7.5-8)	L2126901-01	5/20/2021	7.5-8.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.015	ND	ND	ND	ND	ND
2-B1 (24.5-25)	L2126901-02	5/20/2021	24.5-25.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00022 J	0.0017	0.12	0.027	ND	ND	ND	0.00046 J	ND
2-B2 (9.5-10)	L2126281-01	5/18/2021	9.5-10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.025	ND	0.0028 J	ND	ND	ND
3-B1 (7.5-8)	L2126605-10	5/19/2021	7.5-8.0	0.00035 J	ND	ND	ND	ND	ND	ND	0.00041 J	ND	ND	ND	0.019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-B1 (17.5-18)	L2126605-11	5/19/2021	17.5-18.0	ND	ND	ND	ND	ND	ND	ND	0.00089 J	ND	ND	ND	ND	0.011	0.029	0.26	ND	0.064	ND	ND	0.0066 J	0.0068 J	**ND**
4-B1 (6.5-7)	L2126901-05	5/20/2021	6.5-7.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0042	0.026	ND	ND	ND	ND	ND
4-B1 (24-24.5)	L2126901-06	5/20/2021	24.0-24.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0023	ND	ND	ND	0.022	0.22	ND	0.05	ND	ND	**ND**
4-B2 (6.5-7)	L2126281-03	5/18/2021	6.5-7.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	ND	0.0099 J	ND	ND	ND
5-B1 (8.5-9)	L2126281-04	5/18/2021	8.5-9.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.087	ND	0.018	ND	ND	ND
6-B1 (5.5-6)	L2126281-06	5/18/2021	5.5-6.0	14	2	0.061	**ND**	0.014 J	0.048 J	ND	12	0.083 J	**ND (0.14)**	0.091	ND	ND	0.011 J	ND	ND	**ND**	0.23	0.38 J	ND	ND	**ND**
7-B1 (9-10)	L2126605-07	5/19/2021	9.0-10.0	2,200	140	ND	0.0023	**ND**	ND	**ND**	21	**ND**	**ND (6.6)**	**ND**	**ND**	2.1 J	0.68 J	1.9 J	3.2 J	**ND**	**ND**	**ND**	4.3 J	1.6 J	**ND**
7-B1 (27-27.5)	L2126605-08	5/19/2021	27.0-27.5	0.04	0.0021	ND	0.00031 J	0.0004 J	ND	ND	0.0031	ND	ND	0.00063 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7-B1W (1.5-2)	L2335541-26	6/20/2023	1.5-2.0	2.8	0.2	0.059	0.00093 J	ND	0.0024 J	ND	0.36	0.0044	ND	0.0022	0.00031 J	ND	ND	ND	ND	0.011	0.026	0.0028 J	ND	ND	NS
7-B1W (4.5-5)	L2335541-27	6/20/2023	4.5-5.0	350	32	1	0.14 J	ND	ND	**ND (0.16)**	50	0.33 J	**ND (1.4)**	**ND (0.21)**	**ND (0.1)**	ND	ND	ND	ND	**ND (3)**	4.3	**ND (1.4)**	ND	ND	NS
7-B1W (6.5-7)	L2335541-28	6/20/2023	6.5-7.0	0.072	0.0057	ND	ND	ND	0.0025	ND	0.035	0.00038 J	ND	0.0049	0.0008	0.0012	0.0009 J	0.001 J	ND	0.065	0.00055 J	0.0089 J	0.00056 J	0.00051 J	NS
7-B1WW (1-1.5)	L2335541-29	6/20/2023	1.0-1.5	1,200	38	2.4	**ND (0.42)**	**ND (0.69)**	ND	ND (0.74)	110	0.67 J	**ND (6.6)**	**ND (0.97)**	**ND (0.48)**	**ND (1.6)**	**ND**	**ND (0.84)**	ND	**ND (14)**	18	**ND (6.4)**	ND	ND	NS
7-B1WW (4-4.5)	L2335541-30	6/20/2023	4.0-4.5	6.9	1.1	ND	ND	ND	0.68	ND	0.84	0.014 J	**ND (0.15)**	**ND (0.023)**	0.087	0.18	0.12	0.19 J	ND	**ND (0.32)**	ND	**ND (0.15)**	0.16	0.074 J	NS
7-B1WW (4.5-5)	L2335541-31	6/20/2023	4.5-5.0	0.17	0.026	ND	ND	ND	0.0021 J	ND	0.02	0.0005 J	ND	ND	0.00058 J	0.0016	0.0015	0.0023 J	ND	0.026	ND	0.014 J	ND	ND	NS
7-B1E (1.5-2)	L2335541-32	6/20/2023	1.5-2.0	0.0089	0.0018	ND	ND	ND	0.00038 J	ND	0.018	0.00024 J	0.0024 J	0.0036	0.0012	0.0049	0.00094 J	0.0021 J	ND	0.11	ND	0.016	0.0013 J	0.00056 J	NS
7-B1E (4-4.5)	L2335541-33	6/20/2023	4.0-4.5	10	1.9	ND	ND	ND	0.011 J	ND	7.1	0.074 J	**ND (0.16)**	0.042 J	ND	ND	ND	ND	ND	**ND (0.34)**	0.84	**ND (0.15)**	ND	ND	NS
7-B1E (5.5-6)	L2335541-34	6/20/2023	5.5-6.0	1.9	0.29	ND	ND	ND	4.4	ND	4	0.064 J	**ND (0.14)**	0.16	ND	ND	0.011 J	0.047 J	ND	**ND (0.29)**	ND	**ND (0.13)**	1.8	0.63	NS
7-B1N (1.5-2)	L2335541-35	6/20/2023	1.5-2.0	0.004	0.00082	ND	ND	ND	0.00079 J	ND	0.0043	ND	ND	0.0035	0.00065	0.0012	0.00083 J	0.004	ND	0.025	ND	0.016	0.0059	0.0021	NS
7-B1N (4-4.5)	L2335541-36	6/20/2023	4.0-4.5	0.16	0.0079	ND	ND	ND	ND	ND	0.0038	ND	ND	ND	ND	ND	ND	ND	ND	0.038	0.001 J	0.02	ND	ND	NS
7-B1S (1.5-2)	L2335541-40	6/20/2023	1.5-2.0	0.028	0.0024	ND	ND	ND	0.0011	ND	0.027	0.0005 J	ND	0.00055 J	0.00076	0.0094	0.002	ND	ND	0.062	ND	0.0097 J	0.0093	0.0032	NS
7-B1S (4-4.5)	L2335541-41	6/20/2023	4.0-4.5	5.8	0.48	ND	ND	ND	0.073 J	ND	0.68	ND	**ND (0.14)**	**ND (0.02)**	0.026 J	ND	ND	ND	ND	**ND (0.29)**	0.07 J	**ND (0.13)**	ND	ND	NS
7-B1S (5.5-6)	L2335541-42	6/20/2023	5.5-6.0	0.64	0.24	ND	ND	ND	0.62	ND	3.3	0.17	**ND (0.15)**	0.37	ND	ND	0.011 J	ND	ND	**ND (0.32)**	ND	**ND (0.15)**	0.061 J	0.058 J	NS
7-B1SS (5-5.5)	L2335541-44	6/20/2023	5.0-5.5	0.038	0.019	ND	0.00017 J	ND	0.0024	ND	0.023	0.0028	ND	0.0035	ND	ND	ND	ND	ND	0.0094 J	0.0017	0.003 J	ND	ND	NS
7-B2 (6.5-7)	L2126605-05	5/19/2021	6.5-7.0	0.00033 J	ND	ND	ND	ND	ND	ND	0.00084 J	ND	ND	ND	ND	ND	0.0016	0.0016	ND	0.1	ND	0.028	ND	ND	NS
7-B2 (14-14.5)	L2126605-06	5/19/2021	14.0-14.5	ND	0.085 J	ND	ND	ND	0.49	ND	5	0.18 J	**ND (0.49)**	ND	ND	ND	0.1 J	0.1 J	ND	1.9 J	ND	0.47 J	0.39 J	0.22 J	NS
7-B3 (10.5-11.5)	L2126605-09	5/19/2021	10.5-11.5	0.00099	0.0024	ND	ND	ND	0.00083 J	ND	12	0.0049	ND	ND	ND	ND	0.57	0.57	ND	0.0056 J	0.00013 J	ND	0.00032 J	0.00027 J	NS
7-B4 (6-6.5)	L2126281-07	5/18/2021	6.0-6.5	0.18	0.067	ND	ND	ND	ND	ND	0.39	0.036 J	**ND (0.15)**	ND	ND	ND	0.12	0.12	ND	**ND**	0.013 J	0.27 J	ND	ND	NS
8-B1 (2-3)	L2125356-01	5/13/2021	2.0-3.0	4.2	0.33	ND	ND	ND	ND	ND	**ND**	**ND**	**ND (0.19)**	ND	ND	ND	ND	**ND**	ND	**ND**	0.11 J	0.39 J	ND	ND	NS
8-B1 (7.5-8)	L2126281-09	5/18/2021	7.5-8.0	0.00079	0.00035 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**ND**	ND	ND	0.0002 J	ND	ND	ND	NS
8-B1 (14-15)	L2126281-10	5/18/2021	14.0-15.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0035	ND	ND	0.35	0.0003 J	0.11	0.051	0.032	NS
8B-1N (5.0-5.5)	L2335541-08	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1NN (1.5-2.0)	L2335541-09	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1NN (4.5-5.0)	L2335541-10	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1NN (6.0-6.5)	L2335541-11	6/20/2023	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1E (6.0-6.5)	L2335541-12	6/20/2023	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1S (1.5-2.0)	L2335541-13	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1S (4.5-5.0)	L2335541-14	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1S (6.5-7.0)	L2335541-15	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1SS (1.5-2.0)	L2335541-16	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1SS (4.5-5.0)	L2335541-17	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1SS (6.5-7.0)	L2335541-18	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1W (1.5-2.0)	L2335541-19	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1W (4.5-5.0)	L2335541-20	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1W (6.5-7.0)	L2335541-21	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1WW (1.0-1.5)	L2335541-23	6/20/2023	1.0-1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1WW (4.5-5.0)	L2335541-24	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1WW (6.0-6.5)	L2335541-25	6/20/2023	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9-B1 (6-7)	L2126901-09	5/20/2021	6.0-7.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
9-B1 (8.5-9)	L2126901-10	5/20/2021	8.5-9.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	ND	0.038	ND	0.00024 J	NS
10-B1 (8.5-9)	L2126605-02	5/19/2021	8.5-9.0	0.0018	0.00072	ND	0.00012 J	ND	ND	ND	0.00094	0.00038 J	ND	ND	ND	ND	ND	ND	ND	0.012	ND	ND	ND	ND	NS
10-B1 (22-22.5)	L2126605-03	5/19/2021	22.0-22.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
10-B2 (8.5-9)	L2126901-07	5/20/2021	8.5-9.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS

TABLE 4
Remedial Investigation Soil Analytical Results
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Volatiles (SW846 8260C)																			
Sample No.	**Laboratory ID.#**	**Date Collected**	**Sample Depth (ft.)**	**PCE**	**TCE**	**1,1,1-Trichloroethane**	**1,1-Dichloroethane**	**1,1-Dichloroethene**	**1,2-Dichloro benzene**	**1,2-Dichloroethane**	**cis-1,2-Dichloroethene**	**trans-1,2-Dichloroethene**	**Methylene chloride**	**Vinyl chloride**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylenes**	**Naphthalene**	**Acetone**	**Chloroform**	**2-Butanone**	**1,2,4-Trimethyl benzene**	**1,3,5-Trimethyl benzene**	**1,4-Dioxane**
NY-UNRES (mg/kg)				1.3	0.47	0.68	0.27	0.33	1.1	0.2	0.25	0.19	0.05	0.02	0.06	0.7	1	0.26	12	0.05	0.37	0.12	3.6	8.4	0.1
NY-COM (mg/kg)				150	200	500	240	500	500	30	500	500	500	13	44	500	390	500	500	500	350	500	190	190	130
NY-Protection of GW (mg/kg)				1.3	0.47	0.68	0.27	0.33	1.1	0.2	0.25	0.19	0.05	0.02	0.06	0.7	1	1.6	12	0.05	0.37	0.12	3.6	8.4	0.1
10-B2 (34.5-35)	L2126901-08	5/20/2021	34.5-35.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
10-B3 (7-8)	L2126281-08	5/18/2021	7.0-8.0	0.00041 J	0.00017 J	ND	ND	ND	ND	ND	0.00057 J	ND	ND	ND	ND	ND	ND	ND	ND	0.084	0.00056 J	0.015	ND	ND	NS
10-B4 (5-5.5)	L2126281-11	5/18/2021	5.0-5.5	0.0008	0.0003 J	ND	ND	ND	ND	ND	0.00055 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0065	0.0012 J	NS
10-B4 (18-18.5)	L2126281-12	5/18/2021	18.0-18.5	ND	ND	ND	0.0012 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0076	ND	ND	1	ND	0.33	ND	ND	NS
10-B5 (6.5-7)	L2126281-05	5/18/2021	6.5-7.0	0.001	0.0004 J	ND	ND	ND	ND	ND	0.00049 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
10-B6 (3.5-4.5)	L2125356-02	5/13/2021	3.5-4.5	**200 E**	5.5	ND	ND	ND	ND	ND	0.76	ND	**ND (0.8)**	ND	ND	ND	**ND**	**ND**	ND	ND	0.5 J	**ND**	0.18 J	ND	NS
10-B6W (1.5-2)	L2335541-45	6/20/2023	1.5-2.0	0.015	0.0011	ND	ND	ND	ND	ND	0.0021	ND	ND	ND	0.00049 J	ND	ND	ND	0.00088 J	0.06	ND	0.013	ND	0.00041 J	NS
10-B6W (4.5-5)	L2335541-46	6/20/2023	4.5-5.0	13	0.74	ND	ND	ND	ND	ND	0.31	ND	**ND (0.12)**	ND	ND	ND	ND	ND	0.21 J	**ND (0.26)**	0.024 J	**ND (0.12)**	ND	ND	NS
10-B6W (7.5-8)	L2335541-47	6/20/2023	7.5-8.0	0.066	0.014	ND	ND	ND	ND	ND	0.054	0.0052	ND	0.051	ND	ND	ND	ND	ND	0.011	0.00018 J	0.0031 J	ND	ND	NS
10-B6WW (4.5-5)	L2335541-49	6/20/2023	4.5-5.0	0.00063	0.0003 J	ND	ND	ND	ND	ND	0.0048	0.00029 J	ND	0.0017	ND	ND	ND	ND	ND	0.032	ND	0.0086	ND	ND	NS
10-B6WW (9.5-10)	L2335541-50	6/20/2023	9.5-10.0	ND	ND	ND	ND	ND	ND	ND	0.00022 J	0.00026 J	ND	ND	0.00016 J	ND	ND	ND	ND	0.023	ND	0.0088	ND	ND	NS
10-B6N (1.5-2)	L2335541-51	6/20/2023	1.5-2.0	0.77 E	0.048	ND	ND	ND	ND	ND	0.0093	ND	ND	ND	ND	ND	ND	ND	ND	0.01 J	0.0016	ND	ND	ND	NS
10-B6N (4.5-5)	L2335541-52	6/20/2023	4.5-5.0	17	0.95	ND	ND	ND	ND	ND	0.21	ND	**ND (0.13)**	ND	ND	ND	ND	ND	0.094 J	**ND (0.28)**	0.0083 J	**ND (0.13)**	ND	ND	NS
10-B6N (9.5-10)	L2335541-53	6/20/2023	9.5-10.0	0.004	0.0033	ND	ND	ND	ND	ND	0.023	0.017	ND	0.008	ND	ND	ND	ND	ND	0.19	ND	0.038	ND	ND	NS
10-B6E (1.5-2)	L2335541-54	6/20/2023	1.5-2.0	0.0018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00075 J	ND	ND	0.021	0.028	ND	0.011	0.00073 J	0.00062 J	NS
10-B6E (4.5-5)	L2335541-55	6/20/2023	4.5-5.0	7.3	0.36	ND	ND	ND	ND	ND	0.025 J	ND	**ND (0.14)**	**ND (0.021)**	ND	ND	ND	ND	ND	**ND (0.3)**	ND	**ND (10.14)**	ND	ND	NS
10-B6E (9.5-10)	L2335541-56	6/20/2023	9.5-10.0	ND	ND	ND	ND	ND	ND	ND	ND	0.0011 J	ND	ND	ND	ND	ND	ND	ND	0.086	ND	0.012	ND	ND	NS
10-B6EE (1.5-2)	L2335541-58	6/20/2023	1.5-2.0	0.0072	0.0039	ND	ND	ND	ND	ND	0.0021	ND	ND	ND	ND	ND	ND	ND	ND	0.057 J	0.00024 J	0.0049 J	ND	ND	NS
10-B6EE (5-5.5)	L2335541-59	6/20/2023	5.0-5.5	0.017	0.0077	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	0.013	0.005 J	0.025 J	ND	ND	NS
10-B6S (1.5-2)	L2335541-60	6/20/2023	1.5-2.0	0.041	0.0015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.009 J	0.00031 J	ND	ND	ND	NS
10-B6S (4.5-5)	L2335541-61	6/20/2023	4.5-5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0062 J	0.00016 J	ND	ND	ND	NS
10-B6S (9.5-10)	L2335541-62	6/20/2023	9.5-10.0	ND	ND	ND	ND	ND	ND	ND	ND	0.00019 J	ND	ND	ND	ND	ND	ND	ND	0.072	ND	0.021	ND	ND	NS

Legend:

mg/kg: milligrams per kilogram, ppm
NY-UNRES: New York Unrestricted Use Criteria
NY-COM: New York Commercial Criteria
NY-Protection of GW: New York Protection of Groundwater Criteria
J: Estimated Concentration
ND: Not Detected; but the laboratory MDL is above the standard
ND: Not Detected
NS: Not sampled
560 Concentration in excess of NY-UNRES
560 Concentration in excess of NY-COM
560 Concentration in excess of NY-Protection of GW
PCE: Tetrachloroethene
TCE: Trichloroethene

TABLE 4
Remedial Investigation Soil Analytical Results
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Semi-Volatiles (SW846 8270)											
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	B(a)A	B(a)P	B(b)F	B(k)F	Chrysene	D(a,h)A	I(1,2,3-cd)P	Phenol	2-Methylphenol	3-Methylphenol/4-Methylphenol	1,4-Dioxane	Total SVOCs
NY-UNRES (mg/kg)				1	1	1	0.8	1	0.33	0.5	0.33	0.33	0.33	0.1	-
NY-COM (mg/kg)				5.6	1	5.6	56	56	0.56	5.6	500	500	500	130	-
NY-Protection of GW (mg/kg)				1	22	1.7	1.7	1	1000	8.2	0.33	0.33	0.33	0.1	-
1-B1(7.5-8.5)	L2126901-03	5/20/2021	7.5-8.5	2.2	2.5	3.2	1.1	2.6	0.42	1.7	ND	ND	ND	ND	
1-B1 (24.5-25)	L2126901-04	5/20/2021	24.5-25.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1-B2(7.5-8.5)	L2126281-02	5/18/2021	7.5-8.5	1	1	1.2	0.4	0.97	0.16	0.69	0.04 J	ND	0.21 J	ND	5.67
2-B1 (7.5-8)	L2126901-01	5/20/2021	7.5-8.0	1	1.1	0.96	0.36	1	0.17	0.58	ND	ND	ND	ND	5.17
2-B1 (24.5-25)	L2126901-02	5/20/2021	24.5-25.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-B2 (9.5-10)	L2126281-01	5/18/2021	9.5-10.0	0.18	0.18	0.23	0.065 J	0.18	0.025 J	0.11 J	ND	ND	ND	ND	0.97
3-B1 (7.5-8)	L2126605-10	5/19/2021	7.5-8.0	0.05 J	0.054 J	0.063 J	ND	0.047 J	ND	0.038 J	ND	ND	ND	ND	0.252
3-B1 (17.5-18)	L2126605-11	5/19/2021	17.5-18.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-B1 (6.5-7)	L2126901-05	5/20/2021	6.5-7.0	0.78	0.79	0.95	0.27	0.78	ND	0.5	ND	ND	ND	ND	4.07
4-B1 (24-24.5)	L2126901-06	5/20/2021	24.0-24.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-B2 (6.5-7)	L2126281-03	5/18/2021	6.5-7.0	1.6	1.2	1.2	0.52	1.6	0.17	0.65	ND	ND	ND	ND	6.94
5-B1 (8.5-9)	L2126281-04	5/18/2021	8.5-9.0	0.48	0.37	0.47	0.13	0.45	0.064 J	0.23	ND	0.04 J	0.23 J	ND	2.464
6-B1 (5.5-6)	L2126281-06	5/18/2021	5.5-6.0	0.14	0.15	0.18	0.074 J	0.17	0.026 J	0.076 J	ND	ND	ND	ND	0.888
7-B1 (9-10)	L2126605-07	5/19/2021	9.0-10.0	2.8	2.9	3.3	1.3	2.7	0.46	2	ND	ND	ND	ND	15.65
7-B1 (27-27.5)	L2126605-08	5/19/2021	27.0-27.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (1.5-2)	L2335541-26	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (4.5-5)	L2335541-27	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (6.5-7)	L2335541-28	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (1-1.5)	L2335541-29	6/20/2023	1.0-1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (4-4.5)	L2335541-30	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (4.5-5)	L2335541-31	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (1.5-2)	L2335541-32	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (4-4.5)	L2335541-33	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (5.5-6)	L2335541-34	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1N (1.5-2)	L2335541-35	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1N (4-4.5)	L2335541-36	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (1.5-2)	L2335541-40	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (4-4.5)	L2335541-41	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (5.5-6)	L2335541-42	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1SS (5-5.5)	L2335541-44	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B2 (6.5-7)	L2126605-05	5/19/2021	6.5-7.0	0.18	0.17 J	0.18	0.077 J	0.17	ND	0.096 J	ND	ND	ND	ND	0.916
7-B2 (14-14.5)	L2126605-06	5/19/2021	14.0-14.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B3 (10.5-11.5)	L2126605-09	5/19/2021	10.5-11.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
7-B4 (6-6.5)	L2126281-07	5/18/2021	6.0-6.5	0.036 J	ND	0.052 J	ND	0.045 J	ND	0.03 J	ND	ND	ND	ND	0.163
8-B1 (2-3)	L2125356-01	5/13/2021	2.0-3.0	1.2	1.1	1.4	0.35	1.1	0.16	0.71	ND	ND	ND	ND	6.02
8-B1 (7.5-8)	L2126281-09	5/18/2021	7.5-8.0	0.33	0.36	0.4	0.13	0.33	0.049 J	0.23	ND	ND	ND	ND	1.829
8-B1 (14-15)	L2126281-10	5/18/2021	14.0-15.0	1.6 J	1.6 J	2.1 J	ND	1.5 J	ND	1.2 J	ND	ND	ND	ND	8
8B-1N (5.0-5.5)	L2335541-08	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1NN (1.5-2.0)	L2335541-09	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1NN (4.5-5.0)	L2335541-10	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1NN (6.0-6.5)	L2335541-11	6/20/2023	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1E (6.0-6.5)	L2335541-12	6/20/2023	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1S (1.5-2.0)	L2335541-13	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1S (4.5-5.0)	L2335541-14	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1S (6.5-7.0)	L2335541-15	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1SS (1.5-2.0)	L2335541-16	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1SS (4.5-5.0)	L2335541-17	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1SS (6.5-7.0)	L2335541-18	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1W (1.5-2.0)	L2335541-19	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1W (4.5-5.0)	L2335541-20	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1W (6.5-7.0)	L2335541-21	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1WW (1.0-1.5)	L2335541-23	6/20/2023	1.0-1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1WW (4.5-5.0)	L2335541-24	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 4
Remedial Investigation Soil Analytical Results
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Semi-Volatiles (SW846 8270)												
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	B(a)A	B(a)P	B(b)F	B(k)F	Chrysene	D(a,h)A	I(1,2,3-cd)P	Phenol	2-Methylphenol	3-Methylphenol/4-Methylphenol	1,4-Dioxane	Total SVOCs
NY-UNRES (mg/kg)				1	1	1	0.8	1	0.33	0.5	0.33	0.33	0.33	0.1	-
NY-COM (mg/kg)				5.6	1	5.6	56	56	0.56	5.6	500	500	500	130	-
NY-Protection of GW (mg/kg)				1	22	1.7	1.7	1	1000	8.2	0.33	0.33	0.33	0.1	-
8B-1WW (6.0-6.5)	L2335541-25	6/20/2023	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9-B1 (6-7)	L2126901-09	5/20/2021	6.0-7.0	0.12	ND	0.14	ND	ND	ND	ND	ND	ND	ND	ND	0.26
9-B1 (8.5-9)	L2126901-10	5/20/2021	8.5-9.0	0.8	0.79	0.9	0.26	0.78	ND	0.52	ND	ND	1.6	ND	5.65
10-B1 (8.5-9)	L2126605-02	5/19/2021	8.5-9.0	0.16	0.14 J	0.15	0.056 J	0.15	ND	0.07 J	ND	ND	ND	ND	0.726
10-B1 (22-22.5)	L2126605-03	5/19/2021	22.0-22.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B2 (8.5-9)	L2126901-07	5/20/2021	8.5-9.0	3.4	2.9	3.6	0.95	3.2	0.47	1.8	ND	ND	ND	ND	16.32
10-B2 (34.5-35)	L2126901-08	5/20/2021	34.5-35.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B3 (7-8)	L2126281-08	5/18/2021	7.0-8.0	0.63	0.57	0.64	0.26	0.58	0.072 J	0.35	ND	ND	ND	ND	3.102
10-B4 (5-5.5)	L2126281-11	5/18/2021	5.0-5.5	0.3 J	ND	0.16 J	ND	0.12 J	ND	0.088 J	ND	ND	ND	ND	0.498
10-B4 (18-18.5)	L2126281-12	5/18/2021	18.0-18.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B5 (6.5-7)	L2126281-05	5/18/2021	6.5-7.0	6.9	6	7.8	1.9	6.5	1.2	4.6	ND	ND	0.059 J	ND	34.959
10-B6 (3.5-4.5)	L2125356-02	5/13/2021	3.5-4.5	2.3	1.9	2.4	0.85	2.1	0.3	1.2	ND	ND	ND	ND	11.05
10-B6W (1.5-2)	L2335541-45	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (4.5-5)	L2335541-46	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (7.5-8)	L2335541-47	6/20/2023	7.5-8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6WW (4.5-5)	L2335541-49	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6WW (9.5-10)	L2335541-50	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (1.5-2)	L2335541-51	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (4.5-5)	L2335541-52	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (9.5-10)	L2335541-53	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (1.5-2)	L2335541-54	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (4.5-5)	L2335541-55	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (9.5-10)	L2335541-56	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6EE (1.5-2)	L2335541-58	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6EE (5-5.5)	L2335541-59	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (1.5-2)	L2335541-60	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (4.5-5)	L2335541-61	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (9.5-10)	L2335541-62	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

mg/kg: milligrams per kilogram, ppm
NY-UNRES: New York Unrestricted Use Criteria
NY-COM: New York Commercial Criteria
NY-Protection of GW: New York Protection of Groundwater Criteria
J: Estimated Concentration
NS: Not sampled
ND: Not Detected
ND: Not Detected; but the laboratory MDL is above the standard
560 Concentration in excess of NY-UNRES
560 Concentration in excess of NY-COM
560 Concentration in excess of NY-Protection of GW
B(a)P: Benzo(a)pyrene
B(b)F: Benzo(b)fluoranthene
B(k)F: Benzo(k)fluoranthene
D(a,h)A: Dibenzo(a,h)anthracene
I(1,2,3-cd)P: Indeno(1,2,3-cd)pyrene
B(a)A: Benzo(a)anthracene

TABLE 4
Remedial Investigation Soil Analytical Results
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Metals Analysis																	
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	Arsenic	Arsenic, TCLP (mg/L)	Barium	Barium, TCLP (mg/L)	Beryllium	Cadmium	Cadmium, TCLP (mg/L)	Chromium, TCLP (mg/L)	Copper	Lead	Lead, TCLP (mg/L)	Mercury	Mercury, TCLP (mg/L)	Nickel	Selenium	Selenium, TCLP (mg/L)	Silver	Silver, TCLP (mg/L)	Zinc
USEPA-Toxicity Characteristic (mg/L)				-	5.0	-	100	-	-	1	5	-	-	5	-	0.2	-	-	1	-	5	-
NY-UNRES (mg/kg)				13	-	350	-	7.2	2.5	-	-	50	63	-	0.18	-	30	2	-	2	-	109
NY-COM (mg/kg)				16	-	400	-	590	9	-	-	270	1,000	-	3	-	310	1,500	-	1,500	-	10,000
NY-Protection of GW (mg/kg)				16	-	820	-	47	8	-	-	1,720	450	-	0.73	-	130	4	-	8.3	-	2,480
1-B1(7.5-8.5)	L2126901-03	5/20/2021	7.5-8.5	18	NS	144	NS	0.356 J	1.13	NS	NS	76.9	917	NS	1.87	NS	16.3	0.812 J	NS	ND (0.28)	NS	228
1-B1 (24.5-25)	L2126901-04	5/20/2021	24.5-25.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1-B2(7.5-8.5)	L2126281-02	5/18/2021	7.5-8.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-B1 (7.5-8)	L2126901-01	5/20/2021	7.5-8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-B1 (24.5-25)	L2126901-02	5/20/2021	24.5-25.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-B2 (9.5-10)	L2126281-01	5/18/2021	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-B1 (7.5-8)	L2126605-10	5/19/2021	7.5-8.0	3.19	NS	60.3	NS	0.33 J	0.268 J	NS	NS	15	78.2	NS	0.522	NS	10.6	0.474 J	NS	ND (0.253)	NS	38.4
3-B1 (17.5-18)	L2126605-11	5/19/2021	17.5-18.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-B1 (6.5-7)	L2126901-05	5/20/2021	6.5-7.0	10.3	NS	95.5	NS	0.139 J	0.795 J	NS	NS	156	372	NS	1.86	NS	18.4	1.04 J	NS	ND (0.281)	NS	203
4-B1 (24-24.5)	L2126901-06	5/20/2021	24.0-24.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-B2 (6.5-7)	L2126281-03	5/18/2021	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5-B1 (8.5-9)	L2126281-04	5/18/2021	8.5-9.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6-B1 (5.5-6)	L2126281-06	5/18/2021	5.5-6.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1 (9-10)	L2126605-07	5/19/2021	9.0-10.0	2.58	NS	52.3	NS	0.534	0.45 J	NS	NS	53.3	59.9	NS	0.984	NS	16.2	0.852 J	NS	ND (0.265)	NS	248
7-B1 (27-27.5)	L2126605-08	5/19/2021	27.0-27.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (1.5-2)	L2335541-26	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (4.5-5)	L2335541-27	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (6.5-7)	L2335541-28	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (1-1.5)	L2335541-29	6/20/2023	1.0-1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (4-4.5)	L2335541-30	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (4.5-5)	L2335541-31	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (1.5-2)	L2335541-32	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (4-4.5)	L2335541-33	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (5.5-6)	L2335541-34	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1N (1.5-2)	L2335541-35	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1N (4-4.5)	L2335541-36	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (1.5-2)	L2335541-40	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (4-4.5)	L2335541-41	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (5.5-6)	L2335541-42	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1SS (5-5.5)	L2335541-44	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B2 (6.5-7)	L2126605-05	5/19/2021	6.5-7.0	3.48	NS	52.5	NS	0.27 J	0.375 J	NS	NS	25.8	30.1	NS	0.19	NS	9.86	1.16 J	NS	ND (0.294)	NS	60.3
7-B2 (14-14.5)	L2126605-06	5/19/2021	14.0-14.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B3 (10.5-11.5)	L2126605-09	5/19/2021	10.5-11.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B4 (6-6.5)	L2126281-07	5/18/2021	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8-B1 (2-3)	L2125356-01	5/13/2021	2.0-3.0	4.06	NS	89	NS	0.253 J	1.31	NS	NS	57.6	212	NS	1.22	NS	15.4	0.479 J	NS	ND (0.266)	NS	548
8-B1 (7.5-8)	L2126281-09	5/18/2021	7.5-8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8-B1 (14-15)	L2126281-10	5/18/2021	14.0-15.0	91.8	NS	97.9	NS	0.211 J	1.7	NS	NS	18,000	480	NS	2.24	NS	30.3	3.71	NS	1.01 J	NS	547
8B-1N (5.0-5.5)	L2335541-08	6/20/2023	5.0-5.5	21.3	NS	501	NS	0.856	0.554 J	NS	NS	280	407	NS	1.22	NS	18	1.35 J	NS	ND (0.287)	NS	227
8B-1NN (1.5-2.0)	L2335541-09	6/20/2023	1.5-2.0	22	NS	105	NS	0.368 J	1.61	NS	NS	216	459	NS	1.41	NS	20.1	2.13	NS	0.705	NS	447
8B-1NN (4.5-5.0)	L2335541-10	6/20/2023	4.5-5.0	10.8	NS	182	NS	0.391 J	0.796 J	NS	NS	128	620	NS	2.45	NS	20.5	0.706 J	NS	ND (0.287)	NS	416
8B-1NN (6.0-6.5)	L2335541-11	6/20/2023	6.0-6.5	9.91	NS	43.6	NS	0.236 J	0.491 J	NS	NS	80.9	81.4	NS	0.583	NS	17.1	1.26 J	NS	ND (0.242)	NS	139
8B-1E (6.0-6.5)	L2335541-12	6/20/2023	6.0-6.5	4.08	NS	72.9	NS	0.4 J	0.186 J	NS	NS	51.2	86.9	NS	1.24	NS	11.1	0.665 J	NS	ND (0.268)	NS	80.1
8B-1S (1.5-2.0)	L2335541-13	6/20/2023	1.5-2.0	11.4	NS	173	NS	0.398 J	1.23	NS	NS	102	1,000	NS	8.29	NS	17.6	1.6 J	NS	ND (0.239)	NS	290
8B-1S (4.5-5.0)	L2335541-14	6/20/2023	4.5-5.0	7.52	NS	184	NS	0.536	0.408 J	NS	NS	38.4	70.2	NS	0.093	NS	15.3	ND (0.234)	NS	ND (0.257)	NS	444
8B-1S (6.5-7.0)	L2335541-15	6/20/2023	6.5-7.0	8.14	NS	170	NS	0.39 J	0.69 J	NS	NS	87.9	305	NS	3.55	NS	27.1	0.738 J	NS	ND (0.265)	NS	249
8B-1SS (1.5-2.0)	L2335541-16	6/20/2023	1.5-2.0	13.6	NS	62.9	NS	0.316 J	0.661 J	NS	NS	79.6	117	NS	0.47	NS	16.2	0.267 J	NS	ND (0.254)	NS	243
8B-1SS (4.5-5.0)	L2335541-17	6/20/2023	4.5-5.0	27.2	NS	281	NS	0.6	3.14	NS	NS	382	638	NS	30.3	NS	54.2	0.721 J	NS	0.471 J	NS	1,110
8B-1SS (6.5-7.0)	L2335541-18	6/20/2023	6.5-7.0	5.57	NS	78.4	NS	0.336 J	0.438 J	NS	NS	46.6	85	NS	1.53	NS	14	0.437 J	NS	ND (0.249)	NS	134
8B-1W (1.5-2.0)	L2335541-19	6/20/2023	1.5-2.0	11	NS	232	NS	0.376 J	0.839 J	NS	NS	111	309	NS	10.5	NS	14.8	1.15 J	NS	ND (0.243)	NS	368
8B-1W (4.5-5.0)	L2335541-20	6/20/2023	4.5-5.0	97.9	ND (0.019)	332	0.782	1.3	9.61	ND (0.01)	ND (0.021)	658	3,110	0.253 J	3.83	ND (0.0005)	118	5.04	ND (0.035)	20	ND (0.028)	3,180
8B-1W (6.5-7.0)	L2335541-21	6/20/2023	6.5-7.0	20.1	0.0531 J	445	0.812	0.918	1.65	ND (0.01)	ND (0.021)	214	658	0.188 J	14.1	ND (0.0005)	37.2	1.78 J	ND (0.035)	ND (0.432)	ND (0.028)	2,240
8B-1WW (1.0-1.5)	L2335541-23	6/20/2023	1.0-1.5	11.7	NS	94.9	NS	0.284 J	1.16	NS	NS	111	413	NS	16.4	NS	107	0.633 J	NS	0.319 J	NS	352
8B-1WW (4.5-5.0)	L2335541-24	6/20/2023	4.5-5.0	17.7	NS	218	NS	0.54	1.55	NS	NS	285	397	NS	5.76	NS	27.2	1.83 J	NS	0.509	NS	504
8B-1WW (6.0-6.5)	L2335541-25	6/20/2023	6.0-6.5	17.9	NS	343	NS	0.19 J	1.17	NS	NS	178	2,760	NS	1.14	NS	9.7	0.74 J	NS	1.39	NS	407
9-B1 (6-7)	L2126901-09	5/20/2021	6.0-7.0	3.38	NS	63.6	NS	0.416 J	0.434 J	NS	NS	37.8	73.6	NS	0.304	NS	14.3	0.353 J	NS	ND (0.256)	NS	65.3
9-B1 (8.5-9)	L2126901-10	5/20/2021	8.5-9.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B1 (8.5-9)	L2126605-02	5/19/2021	8.5-9.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 4
Remedial Investigation Soil Analytical Results
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Metals Analysis																
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	Arsenic	Arsenic, TCLP (mg/L)	Barium	Barium, TCLP (mg/L)	Beryllium	Cadmium	Cadmium, TCLP (mg/L)	Chromium, TCLP (mg/L)	Copper	Lead	Lead, TCLP (mg/L)	Mercury	Mercury, TCLP (mg/L)	Nickel	Selenium	Selenium, TCLP (mg/L)	Silver	Silver, TCLP (mg/L)	Zinc
USEPA-Toxicity Characteristic (mg/L)				-	5.0	-	100	-	-	1	5	-	-	5	-	0.2	-	-	1	-	5	-
NY-UNRES (mg/kg)				13	-	350	-	7.2	2.5	-	-	50	63	-	0.18	-	30	2	-	2	-	109
NY-COM (mg/kg)				16	-	400	-	590	9	-	-	270	1,000	-	3	-	310	1,500	-	1,500	-	10,000
NY-Protection of GW (mg/kg)				16	-	820	-	47	8	-	-	1,720	450	-	0.73	-	130	4	-	8.3	-	2,480
10-B1 (22-22.5)	L2126605-03	5/19/2021	22.0-22.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B2 (8.5-9)	L2126901-07	5/20/2021	8.5-9.0	28.8	NS	255	NS	0.324 J	1.06	NS	NS	102	1,250	NS	1.62	NS	8.9	0.518 J	NS	ND (0.262)	NS	302
10-B2 (34.5-35)	L2126901-08	5/20/2021	34.5-35.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B3 (7-8)	L2126281-08	5/18/2021	7.0-8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B4 (5-5.5)	L2126281-11	5/18/2021	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B4 (18-18.5)	L2126281-12	5/18/2021	18.0-18.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B5 (6.5-7)	L2126281-05	5/18/2021	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6 (3.5-4.5)	L2125356-02	5/13/2021	3.5-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (1.5-2)	L2335541-45	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (4.5-5)	L2335541-46	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (7.5-8)	L2335541-47	6/20/2023	7.5-8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6WW (4.5-5)	L2335541-49	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6WW (9.5-10)	L2335541-50	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (1.5-2)	L2335541-51	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (4.5-5)	L2335541-52	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (9.5-10)	L2335541-53	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (1.5-2)	L2335541-54	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (4.5-5)	L2335541-55	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (9.5-10)	L2335541-56	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6EE (1.5-2)	L2335541-58	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6EE (5-5.5)	L2335541-59	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (1.5-2)	L2335541-60	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (4.5-5)	L2335541-61	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (9.5-10)	L2335541-62	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

mg/kg:	milligrams per kilogram, ppm
mg/L:	milligram per liter
NY-UNRES:	New York Unrestricted Use Criteria
NY-COM:	New York Commercial Criteria
NY-Protection of GW:	New York Protection of Groundwater Criteria
J:	Estimated Concentration
P:	The RPD between the results for the two columns exceeds the method-specified criteria.
ND:	Not Detected
NS:	Not sampled
560	Concentration in excess of NY-UNRES
560	Concentration in excess of NY-COM
560	Concentration in excess of NY-Protection of GW

TABLE 4
Remedial Investigation Soil Analytical Results
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Pesticides			PCBs	
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aroclor 1254	PCBs total
NY-UNRES (mg/kg)				0.0033	0.0033	0.0033	0.1	0.1
NY-COM (mg/kg)				92	62	47	1	1
NY-Protection of GW (mg/kg)				14	17	136	3.2	3.2
1-B1(7.5-8.5)	L2126901-03	5/20/2021	7.5-8.5	ND	ND	ND	ND	ND
1-B1 (24.5-25)	L2126901-04	5/20/2021	24.5-25.0	NS	NS	NS	NS	NS
1-B2(7.5-8.5)	L2126281-02	5/18/2021	7.5-8.5	NS	NS	NS	NS	NS
2-B1 (7.5-8)	L2126901-01	5/20/2021	7.5-8.0	NS	NS	NS	NS	NS
2-B1 (24.5-25)	L2126901-02	5/20/2021	24.5-25.0	NS	NS	NS	NS	NS
2-B2 (9.5-10)	L2126281-01	5/18/2021	9.5-10.0	NS	NS	NS	NS	NS
3-B1 (7.5-8)	L2126605-10	5/19/2021	7.5-8.0	ND	ND	ND	ND	ND
3-B1 (17.5-18)	L2126605-11	5/19/2021	17.5-18.0	NS	NS	NS	NS	NS
4-B1 (6.5-7)	L2126901-05	5/20/2021	6.5-7.0	ND	ND	ND	ND	ND
4-B1 (24-24.5)	L2126901-06	5/20/2021	24.0-24.5	NS	NS	NS	NS	NS
4-B2 (6.5-7)	L2126281-03	5/18/2021	6.5-7.0	NS	NS	NS	NS	NS
5-B1 (8.5-9)	L2126281-04	5/18/2021	8.5-9.0	NS	NS	NS	NS	NS
6-B1 (5.5-6)	L2126281-06	5/18/2021	5.5-6.0	NS	NS	NS	NS	NS
7-B1 (9-10)	L2126605-07	5/19/2021	9.0-10.0	0.00824 P	0.00669 P	ND	ND	ND
7-B1 (27-27.5)	L2126605-08	5/19/2021	27.0-27.5	NS	NS	NS	NS	NS
7-B1W (1.5-2)	L2335541-26	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
7-B1W (4.5-5)	L2335541-27	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
7-B1W (6.5-7)	L2335541-28	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS
7-B1WW (1-1.5)	L2335541-29	6/20/2023	1.0-1.5	NS	NS	NS	NS	NS
7-B1WW (4-4.5)	L2335541-30	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS
7-B1WW (4.5-5)	L2335541-31	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
7-B1E (1.5-2)	L2335541-32	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
7-B1E (4-4.5)	L2335541-33	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS
7-B1E (5.5-6)	L2335541-34	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS
7-B1N (1.5-2)	L2335541-35	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
7-B1N (4-4.5)	L2335541-36	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS
7-B1S (1.5-2)	L2335541-40	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
7-B1S (4-4.5)	L2335541-41	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS
7-B1S (5.5-6)	L2335541-42	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS
7-B1SS (5-5.5)	L2335541-44	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS
7-B2 (6.5-7)	L2126605-05	5/19/2021	6.5-7.0	ND	ND	0.00476 P	ND	ND
7-B2 (14-14.5)	L2126605-06	5/19/2021	14.0-14.5	NS	NS	NS	NS	NS
7-B3 (10.5-11.5)	L2126605-09	5/19/2021	10.5-11.5	NS	NS	NS	NS	NS
7-B4 (6-6.5)	L2126281-07	5/18/2021	6.0-6.5	NS	NS	NS	NS	NS
8-B1 (2-3)	L2125356-01	5/13/2021	2.0-3.0	ND	ND	0.00857	0.097	0.097
8-B1 (7.5-8)	L2126281-09	5/18/2021	7.5-8.0	NS	NS	NS	NS	NS
8-B1 (14-15)	L2126281-10	5/18/2021	14.0-15.0	NS	NS	NS	NS	NS
8B-1N (5.0-5.5)	L2335541-08	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS
8B-1NN (1.5-2.0)	L2335541-09	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
8B-1NN (4.5-5.0)	L2335541-10	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
8B-1NN (6.0-6.5)	L2335541-11	6/20/2023	6.0-6.5	NS	NS	NS	NS	NS
8B-1E (6.0-6.5)	L2335541-12	6/20/2023	6.0-6.5	NS	NS	NS	NS	NS
8B-1S (1.5-2.0)	L2335541-13	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
8B-1S (4.5-5.0)	L2335541-14	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
8B-1S (6.5-7.0)	L2335541-15	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS
8B-1SS (1.5-2.0)	L2335541-16	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
8B-1SS (4.5-5.0)	L2335541-17	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
8B-1SS (6.5-7.0)	L2335541-18	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS
8B-1W (1.5-2.0)	L2335541-19	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
8B-1W (4.5-5.0)	L2335541-20	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS

TABLE 4
Remedial Investigation Soil Analytical Results
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Pesticides			PCBs	
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aroclor 1254	PCBs total
NY-UNRES (mg/kg)				0.0033	0.0033	0.0033	0.1	0.1
NY-COM (mg/kg)				92	62	47	1	1
NY-Protection of GW (mg/kg)				14	17	136	3.2	3.2
8B-1W (6.5-7.0)	L2335541-21	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS
8B-1WW (1.0-1.5)	L2335541-23	6/20/2023	1.0-1.5	NS	NS	NS	NS	NS
8B-1WW (4.5-5.0)	L2335541-24	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
8B-1WW (6.0-6.5)	L2335541-25	6/20/2023	6.0-6.5	NS	NS	NS	NS	NS
9-B1 (6-7)	L2126901-09	5/20/2021	6.0-7.0	ND	ND	ND	ND	ND
9-B1 (8.5-9)	L2126901-10	5/20/2021	8.5-9.0	NS	NS	NS	NS	NS
10-B1 (8.5-9)	L2126605-02	5/19/2021	8.5-9.0	NS	NS	NS	NS	NS
10-B1 (22-22.5)	L2126605-03	5/19/2021	22.0-22.5	NS	NS	NS	NS	NS
10-B2 (8.5-9)	L2126901-07	5/20/2021	8.5-9.0	ND	ND	ND	0.553	0.622
10-B2 (34.5-35)	L2126901-08	5/20/2021	34.5-35.0	NS	NS	NS	NS	NS
10-B3 (7-8)	L2126281-08	5/18/2021	7.0-8.0	NS	NS	NS	NS	NS
10-B4 (5-5.5)	L2126281-11	5/18/2021	5.0-5.5	NS	NS	NS	NS	NS
10-B4 (18-18.5)	L2126281-12	5/18/2021	18.0-18.5	NS	NS	NS	NS	NS
10-B5 (6.5-7)	L2126281-05	5/18/2021	6.5-7.0	NS	NS	NS	NS	NS
10-B6 (3.5-4.5)	L2125356-02	5/13/2021	3.5-4.5	NS	NS	NS	NS	NS
10-B6W (1.5-2)	L2335541-45	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
10-B6W (4.5-5)	L2335541-46	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
10-B6W (7.5-8)	L2335541-47	6/20/2023	7.5-8.0	NS	NS	NS	NS	NS
10-B6WW (4.5-5)	L2335541-49	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
10-B6WW (9.5-10)	L2335541-50	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS
10-B6N (1.5-2)	L2335541-51	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
10-B6N (4.5-5)	L2335541-52	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
10-B6N (9.5-10)	L2335541-53	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS
10-B6E (1.5-2)	L2335541-54	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
10-B6E (4.5-5)	L2335541-55	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
10-B6E (9.5-10)	L2335541-56	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS
10-B6EE (1.5-2)	L2335541-58	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
10-B6EE (5-5.5)	L2335541-59	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS
10-B6S (1.5-2)	L2335541-60	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
10-B6S (4.5-5)	L2335541-61	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
10-B6S (9.5-10)	L2335541-62	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS

Legend:

mg/kg:	milligrams per kilogram, ppm
NY-UNRES:	New York Unrestricted Use Criteria
NY-COM:	New York Commercial Criteria
NY-Protection of GW:	New York Protection of Groundwater Criteria
J:	Estimated Concentration
P:	The RPD between the results for the two columns exceeds the method-specified criteria.
ND:	Not Detected
NS:	Not sampled
560	Concentration in excess of NY-UNRES
560	Concentration in excess of NY-COM
560	Concentration in excess of NY-Protection of GW

TABLE 4
Remedial Investigation Soil Analytical Results
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				PFAs																				
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	8:2FTS	6:2FTS	NEtFOSAA	NMeFOSAA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNA	POSA	PFOS	PFOA	PFPeA	PFTA	PFTrDA	PFUnA	PFOA/PFOS, Total
NY-UNRES (ug/kg)				0.88	0.88	0.88	0.88	0.88	0.66	0.88	0.66	0.66	0.88	0.66	0.88	0.66	0.66	0.88	0.88	0.66	0.66	0.66	0.66	0.66	0.66
NY-COM (ug/kg)				440	440	440	440	440	504	440	504	504	440	504	440	504	504	440	440	504	504	504	504	504	504
NY-Protection of GW (ug/kg)				3.7	3.7	3.7	3.7	3.7	1.1	3.7	1.1	1.1	3.7	1.1	3.7	1.1	1.1	3.7	3.7	1.1	1.1	1.1	1.1	1.1	1.1
1-B1(7.5-8.5)	L2126901-03	5/20/2021	7.5-8.5	ND (0.631)	ND (0.631)	ND (0.631)	ND (0.631)	ND (0.316)	ND (0.631)	ND (0.631)	ND (0.316)	ND (0.631)	ND (0.631)	ND (0.316)	ND (0.316)	ND (0.631)	ND (0.316)	ND (0.631)	ND (0.316)	ND (0.316)	ND (0.631)	ND (0.631)	ND (0.631)	ND (0.631)	ND (0.316)
1-B1 (24.5-25)	L2126901-04	5/20/2021	24.5-25.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1-B2(7.5-8.5)	L2126281-02	5/18/2021	7.5-8.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-B1 (7.5-8)	L2126901-01	5/20/2021	7.5-8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-B1 (24.5-25)	L2126901-02	5/20/2021	24.5-25.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-B2 (9.5-10)	L2126281-01	5/18/2021	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-B1 (7.5-8)	L2126605-10	5/19/2021	7.5-8.0	ND (0.518)	ND (0.518)	ND (0.518)	ND (0.518)	ND (0.259)	ND (0.518)	ND (0.518)	ND (0.259)	ND (0.518)	ND (0.518)	ND (0.259)	ND (0.259)	ND (0.518)	ND (0.259)	ND (0.518)	ND (0.259)	ND (0.259)	ND (0.518)	ND (0.518)	ND (0.518)	ND (0.518)	ND (0.259)
3-B1 (17.5-18)	L2126605-11	5/19/2021	17.5-18.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-B1 (6.5-7)	L2126901-05	5/20/2021	6.5-7.0	ND (0.574)	ND (0.574)	ND (0.574)	ND (0.574)	ND (0.287)	ND (0.574)	ND (0.574)	ND (0.287)	ND (0.574)	ND (0.574)	ND (0.287)	ND (0.287)	ND (0.574)	ND (0.287)	ND (0.574)	ND (0.287)	ND (0.287)	ND (0.574)	ND (0.574)	ND (0.574)	ND (0.574)	ND (0.287)
4-B1 (24-24.5)	L2126901-06	5/20/2021	24.0-24.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-B2 (6.5-7)	L2126281-03	5/18/2021	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5-B1 (8.5-9)	L2126281-04	5/18/2021	8.5-9.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6-B1 (5.5-6)	L2126281-06	5/18/2021	5.5-6.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1 (9-10)	L2126605-07	5/19/2021	9.0-10.0	ND (0.558)	ND (0.558)	1.82	ND (0.558)	ND (0.279)	ND (0.558)	ND (0.558)	ND (0.279)	ND (0.558)	ND (0.558)	ND (0.279)	ND (0.279)	0.062 J	ND (0.279)	ND (0.558)	1.24	ND (0.279)	ND (0.558)	ND (0.558)	ND (0.558)	ND (0.558)	1.24
7-B1 (27-27.5)	L2126605-08	5/19/2021	27.0-27.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (1.5-2)	L2335541-26	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (4.5-5)	L2335541-27	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (6.5-7)	L2335541-28	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (1-1.5)	L2335541-29	6/20/2023	1.0-1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (4-4.5)	L2335541-30	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (4.5-5)	L2335541-31	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (1.5-2)	L2335541-32	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (4-4.5)	L2335541-33	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (5.5-6)	L2335541-34	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1N (1.5-2)	L2335541-35	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1N (4-4.5)	L2335541-36	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (1.5-2)	L2335541-40	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (4-4.5)	L2335541-41	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (5.5-6)	L2335541-42	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1SS (5-5.5)	L2335541-44	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B2 (6.5-7)	L2126605-05	5/19/2021	6.5-7.0	ND (0.614)	ND (0.614)	0.238 J	ND (0.614)	ND (0.307)	0.06 J	ND (0.614)	ND (0.307)	ND (0.614)	ND (0.614)	ND (0.307)	ND (0.307)	0.141 J	ND (0.307)	ND (0.614)	0.552	0.082 J	0.079 J	ND (0.614)	ND (0.614)	ND (0.614)	0.634 J
7-B2 (14-14.5)	L2126605-06	5/19/2021	14.0-14.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B3 (10.5-11.5)	L2126605-09	5/19/2021	10.5-11.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B4 (6-6.5)	L2126281-07	5/18/2021	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8-B1 (2-3)	L2125356-01	5/13/2021	2.0-3.0	ND (0.565)	ND (0.565)	0.312 J	ND (0.565)	ND (0.283)	ND (0.565)	0.75	ND (0.283)	0.084 JF	ND (0.565)	ND (0.283)	0.124 J	0.114 JF	ND (0.283)	ND (0.565)	1.2	0.319	ND (0.565)	ND (0.565)	ND (0.565)	ND (0.565)	1.52
8-B1 (7.5-8)	L2126281-09	5/18/2021	7.5-8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8-B1 (14-15)	L2126281-10	5/18/2021	14.0-15.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1N (5.0-5.5)	L2335541-08	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1NN (1.5-2.0)	L2335541-09	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1NN (4.5-5.0)	L2335541-10	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1NN (6.0-6.5)	L2335541-11	6/20/2023	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1E (6.0-6.5)	L2335541-12	6/20/2023	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1S (1.5-2.0)	L2335541-13	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1S (4.5-5.0)	L2335541-14	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1S (6.5-7.0)	L2335541-15	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1SS (1.5-2.0)	L2335541-16	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1SS (4.5-5.0)	L2335541-17	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1SS (6.5-7.0)	L2335541-18	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1W (1.5-2.0)	L2335541-19	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1W (4.5-5.0)	L2335541-20	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1W (6.5-7.0)	L2335541-21	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1WW (1.0-1.5)	L2335541-23	6/20/2023	1.0-1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1WW (4.5-5.0)	L2335541-24	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1WW (6.0-6.5)	L2335541-25	6/20/2023	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9-B1 (6-7)	L2126901-09	5/20/2021	6.0-7.0	ND (0.544)	ND (0.544)	25.4	ND (0.544)	ND (0.272)	ND (0.544)	ND (0.544)	ND (0.272)	ND (0.544)	ND (0.544)	ND (0.272)	1	ND (0.544)	ND (0.272)	ND (0.544)	1.53	1.83	ND (0.544)	ND (0.544)	ND (0.544)	ND (0.544)	3.36
9-B1 (8.5-9)	L2126901-10	5/20/2021	8.5-9.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 4
Remedial Investigation Soil Analytical Results
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				PFAs																				
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	8:2FTS	6:2FTS	NEtFOSAA	NMeFOSAA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNA	POSA	PFOS	PFOA	PFPeA	PFTA	PFTrDA	PFUnA	PFOA/PFOS, Total
NY-UNRES (ug/kg)				0.88	0.88	0.88	0.88	0.88	0.66	0.88	0.66	0.66	0.88	0.66	0.88	0.66	0.66	0.88	0.88	0.66	0.66	0.66	0.66	0.66	0.66
NY-COM (ug/kg)				440	440	440	440	440	504	440	504	504	440	504	440	504	504	440	440	504	504	504	504	504	504
NY-Protection of GW (ug/kg)				3.7	3.7	3.7	3.7	3.7	1.1	3.7	1.1	1.1	3.7	1.1	3.7	1.1	1.1	3.7	3.7	1.1	1.1	1.1	1.1	1.1	1.1
10-B1 (8.5-9)	L2126605-02	5/19/2021	8.5-9.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B1 (22-22.5)	L2126605-03	5/19/2021	22.0-22.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B2 (8.5-9)	L2126901-07	5/20/2021	8.5-9.0	ND (0.545)	ND (0.545)	ND (0.545)	ND (0.545)	ND (0.272)	ND (0.545)	ND (0.545)	ND (0.272)	ND (0.545)	ND (0.545)	ND (0.272)	ND (0.272)	ND (0.545)	ND (0.272)	ND (0.545)	ND (0.272)	ND (0.272)	ND (0.545)	ND (0.545)	ND (0.545)	ND (0.545)	ND (0.272)
10-B2 (34.5-35)	L2126901-08	5/20/2021	34.5-35.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B3 (7-8)	L2126281-08	5/18/2021	7.0-8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B4 (5-5.5)	L2126281-11	5/18/2021	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B4 (18-18.5)	L2126281-12	5/18/2021	18.0-18.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B5 (6.5-7)	L2126281-05	5/18/2021	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6 (3.5-4.5)	L2125356-02	5/13/2021	3.5-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (1.5-2)	L2335541-45	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (4.5-5)	L2335541-46	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (7.5-8)	L2335541-47	6/20/2023	7.5-8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6WW (4.5-5)	L2335541-49	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6WW (9.5-10)	L2335541-50	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (1.5-2)	L2335541-51	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (4.5-5)	L2335541-52	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (9.5-10)	L2335541-53	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (1.5-2)	L2335541-54	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (4.5-5)	L2335541-55	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (9.5-10)	L2335541-56	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6EE (1.5-2)	L2335541-58	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6EE (5-5.5)	L2335541-59	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (1.5-2)	L2335541-60	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (4.5-5)	L2335541-61	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (9.5-10)	L2335541-62	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

ug/kg: micrograms per kilogram, ppb
NY-UNRES: New York Unrestricted Use Criteria
NY-COM: New York Commercial Criteria
NY-Protection of GW: New York Protection of Groundwater Criteria
J: Estimated Concentration
F: The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
NS: Not sampled
ND: Not Detected
560 Concentration in excess of NY-UNRES
560 Concentration in excess of NY-COM
560 Concentration in excess of NY-Protection of GW

8:2FTS: 1H,1H,2H,2H-Perfluorodecanesulfonic Acid
6:2FTS: 1H,1H,2H,2H-Perfluorooctanesulfonic Acid
NEtFOSAA: N-Ethyl Perfluorooctanesulfonamidoacetic Acid
NMeFOSAA: N-Methyl Perfluorooctanesulfonamidoacetic Acid
PFBS: Perfluorobutanesulfonic Acid
PFBA: Perfluorobutanoic Acid
PFDS: Perfluorodecanesulfonic Acid
PFDA: Perfluorodecanoic Acid
PFDoA: Perfluorododecanoic Acid
PFHpS: Perfluoroheptanesulfonic Acid
PFHpA: Perfluoroheptanoic Acid
PFHxS: Perfluorohexanesulfonic Acid
PFHxA: Perfluorohexanoic Acid
PFNA: Perfluorononanoic Acid
FOSA: Perfluorooctanesulfonamide
PFOS: Perfluorooctanesulfonic Acid
PFOA: Perfluorooctanoic Acid
PFPeA: Perfluoropentanoic Acid
PFTA: Perfluorotetradecanoic Acid
PFTrDA: Perfluorotridecanoic Acid
PFUnA: Perfluoroundecanoic Acid

TABLE 5
Remedial Investigation Groundwater Analytical Results – Temporary Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Volatiles																			
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	PCE	TCE	cis-1,2-DCE	1,1-DCA	1,1-DCE	1,1,1-TCA	trans-1,2-DCE	Vinyl chloride	Benzene	Toluene	o-Xylene	p/m-Xylene	1,2-Dichloro benzene	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Naphthalene	Methyl Tert Butyl Ether	Chloroform	Dichlorodi fluoromethane	p-Isopropyl toluene	TOTAL VOCS
New York Ambient Water Quality Standards (ug/L)				5	5	5	5	5	5	5	2	1	5	5	5	3	5	5	-	10	7	5	5	-
New York Ambient Water Quality Guidance Values (ug/L)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-
1-TW1(5-15)	L2128067-09	5/26/2021	5-15	1.7	ND	ND	ND	ND	ND	ND	ND	0.24 J	ND	ND	ND	ND	ND	ND	14	ND	1.1 J	ND	ND	17.04
2-TW1(10-20)	L2128067-08	5/25/2021	10-20	0.78	0.19 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9 J	ND	2.7	ND	ND	5.57
3-TW1(65-70)	L2128067-07	5/25/2021	65-70	42	12	10	1.3 J	ND	ND	ND	0.12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5 J	3	70.92
3-TW1(105-110)	L2128067-06	5/25/2021	105-110	240	48	4.6 J	ND	ND	3.6 J	ND	0.29 J	ND	ND	ND	ND	ND	ND	ND	ND	2.5 J	ND	2.5 J	1.7 J	303.19
3-TW2(10-20)	L2128813-01	5/28/2021	10-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35	ND	ND	ND	ND	35
3-TW2(65-70)	L2129188-01	6/1/2021	65-70	37	12	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	ND	ND	1.8 J	ND	74.5
3-TW3(10-20)	L2128656-05	5/27/2021	10-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7 J	1.3 J	1.9 J	ND	ND	4.9
3-TW3(65-70)	L2129188-02	6/1/2021	65-70	33	11	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4	0.73 J	ND	1.2 J	ND	55.73
3-TW4(10-20)	L2128813-03	5/28/2021	10-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND	2.5
3-TW4(65-70)	L2129188-03	6/1/2021	65-70	20	14	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8	ND	3.1 J	ND	47.3
3-TW5(10-20)	L2128813-02	5/28/2021	10-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
3-TW5(65-70)	L2128813-04	5/28/2021	65-70	28	16	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	48.9
4-TW1(20-30)	L2127174-01	5/21/2021	20-30	0.19 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.77 J	ND	ND	ND	ND	0.96
7-TW1(25-30)	L2128067-04	5/24/2021	25-30	1,400	77	48	18 J	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,555
7-TW2(20-30)	L2127174-02	5/21/2021	20-30	ND	ND	0.88 J	ND	ND	ND	ND	0.22 J	ND	ND	ND	ND	ND	ND	ND	1.4 J	ND	ND	ND	ND	3.4
7-TW3(5-15)	L2127174-03	5/21/2021	5-15	47	15	7,100	ND	16	ND	25 J	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,603
7-TW4-25	L2218426-01	4/7/2022	20-25	580	190	310	ND	ND	ND	ND	44	1.2 J	3.4 J	ND	ND	3.7 J	ND	ND	19	ND	ND	ND	ND	1161.3
7-TW4-40	L2218426-02	4/7/2022	35-40	950	450	420	ND	1.1 J	ND	ND	39	1.5 J	4.4 J	ND	ND	6.1 J	4 J	ND	15	ND	ND	ND	ND	1891.1
7-TW4-55	L2218426-03	4/7/2022	50-55	1,000	450	400	ND	ND	ND	ND	36	ND	ND	ND	ND	ND	ND	ND	18 J	ND	ND	ND	ND	1904
7-TW4-70	L2218426-04	4/7/2022	65-70	1,300	560	550	ND	ND	ND	ND	50	2.1 J	ND	ND	ND	7.2 J	ND	ND	16 J	ND	ND	ND	ND	2485.3
7-TW5-25	L2218426-05	4/8/2022	20-25	3.7	1.2	6.1	2.1 J	ND	ND	ND	1.5	0.45 J	0.83 J	ND	ND	ND	ND	ND	1 J	2 J	ND	ND	ND	28.88
7-TW5-40	L2218426-06	4/8/2022	35-40	4.3	1.5	8.7	3.1	ND	ND	ND	1.2	0.46 J	1 J	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	38.76
7-TW5-55	L2218426-07	4/8/2022	50-55	3.9	2.4	14	5.9	0.18 J	ND	ND	0.75 J	0.7	0.75 J	ND	ND	ND	ND	ND	ND	6.9	ND	ND	ND	63.88
7-TW5-70	L2218426-08	4/8/2022	65-70	12	5.6	28	4.4	0.22 J	ND	ND	2.7	0.59	ND	ND	ND	ND	ND	ND	0.82 J	4.5	ND	ND	ND	101.63
7-TW6-25	L2218426-09	4/7/2022	20-25	5.8	1.5	32	9.3	0.84 J	ND	0.87 J	3.5	1.2	2.9	0.86 J	1.2 J	ND	1 J	ND	130	2.7	ND	ND	ND	206.67
7-TW6-40	L2218426-10	4/7/2022	35-40	5.1	1.1	30	4	0.47 J	ND	0.88 J	3.1	0.93	1.7 J	0.7 J	0.95 J	ND	0.95 J	ND	120	1.6 J	ND	ND	ND	177.48
7-TW6-55	L2218426-11	4/7/2022	50-55	5.6	1.6	33	2.6	0.31 J	ND	0.87 J	3.5	1.7	2.3 J	1 J	1.3 J	ND	1.3 J	0.82 J	200	1.2 J	ND	ND	ND	272.72
7-TW6-70	L2218426-12	4/7/2022	65-70	26	6.9	69	1.2 J	ND	ND	ND	3.6	1.4	6.5	1.1 J	1.6 J	ND	1.4 J	0.7 J	82	0.81 J	1.6 J	ND	1.1 J	379.41
7-TW7-25	L2218426-13	4/8/2022	20-25	46	9.3	51	4.8	0.49 J	ND	ND	2.6	0.38 J	1 J	ND	ND	ND	ND	ND	5.2	1.7 J	1.2 J	ND	ND	139.07
7-TW7-40	L2218426-14	4/8/2022	35-40	46	11	59	5.4	0.69	ND	ND	3.1	0.34 J	1.2 J	ND	ND	ND	ND	ND	1.6 J	1.6 J	1.5 J	ND	ND	151.13
7-TW7-55	L2218426-15	4/8/2022	50-55	47	12	55	5.9	0.68	ND	ND	3	0.34	0.93 J	ND	ND	ND	ND	ND	2 J	1.7 J	1.2 J	ND	ND	148.35
7-TW7-70	L2218426-16	4/8/2022	65-70	44	15	56	4.5	0.55	ND	0.7 J	3.3	0.29 J	ND	ND	ND	ND	ND	ND	2.6	1.6 J	0.92 J	ND	ND	166.86
9-TW1(5-15)	L2128656-01	5/27/2021	5-15	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
9-TW1(20-30)	L2128656-02	5/27/2021	20-30	38	18	31	ND	0.55	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	3.8 J	ND	105.35
10-TW1(5-15)	L2128067-01	5/24/2021	5-15	0.28 J	ND	ND	ND	ND	ND	ND	0.14 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.42
10-TW1(20-30)	L2128067-05	5/25/2021	20-30	6.6	0.28 J	ND	ND	ND	ND	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	13.28
10-TW2(65-70)	L2128067-02	5/24/2021	65-70	260	86	6.2	ND	1	2.1 J	ND	0.86 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21	ND	377.16
10-TW2(105-110)	L2128067-03	5/24/2021	105-110	230	100	2.9	ND	1.1	2.1 J	ND	0.2 J	0.17 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.8	ND	230
0-TW1(65-70)	L2129530-02	6/2/2021	65-70	140	62	2.3 J	ND	0.64	1.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	0.89 J	7.1	ND	216.53
0-TW1(105-110)	L2129530-01	6/2/2021	105-110	91	41	0.91 J	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.2	ND	138.61
0-TW2(65-70)	L2129925-01	6/4/2021	65-70	28	46	8.1	2.8	0.74	ND	ND	0.36 J	0.16 J	ND	ND	ND	ND	ND	ND	ND	9.2	5	ND	ND	100.36
8B-1N-GW	L2335541-01	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1NN-GW	L2335541-02	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1E-GW	L2335541-03	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1S-GW	L2335541-04	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1SS-GW	L2335541-05	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1W-GW	L2335541-06	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1WW-GW	L2335541-07	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

ug/L: Micrograms per Liter
NY-TOGS: New York TOGS Class GA GW Standards (NYSDEC 6/2004)
J: Estimated Concentration
ND: Not Detected
ND: MDL exceeds standard
560: Concentration in excess of most stringent criteria
PCE: Tetrachloroethene
TCE: Trichloroethene
cis-1,2-DCE: cis-1,2-Dichloroethene
1,1-DCA: 1,1-Dichloroethane
1,1-DCE: 1,1-Dichloroethene
1,1,1-TCA: 1,1,1-Trichloroethane
trans-1,2-DCE: trans-1,2-Dichloroethene

TABLE 5
Remedial Investigation Groundwater Analytical Results – Temporary Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Semi-Volatiles															
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Indeno (1,2,3-cd) pyrene	Bis(2-ethylhexyl) phthalate	Fluoranthene	Fluorene	Phenanthrene	Pyrene	2,4-Dinitrophenol	TOTAL SVOCS
New York Ambient Water Quality Standards (ug/L)				-	-	-	ND	-	-	-	-	5	-	-	-	-	-	-
New York Ambient Water Quality Guidance Values (ug/L)				20	50	0.002	-	0.002	0.002	0.002	0.002	-	50	50	50	50	10	-
1-TW1(5-15)	L2128067-09	5/26/2021	5-15	7.6	3.3	3.2	2.7	3.1	0.87	2.8	1.6	2.6 J	7.5	4.3	7.8	7	**ND**	16.87
2-TW1(10-20)	L2128067-08	5/25/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW1(65-70)	L2128067-07	5/25/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW1(105-110)	L2128067-06	5/25/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW2(10-20)	L2128813-01	5/28/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW2(65-70)	L2129188-01	6/1/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW3(10-20)	L2128656-05	5/27/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW3(65-70)	L2129188-02	6/1/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW4(10-20)	L2128813-03	5/28/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW4(65-70)	L2129188-03	6/1/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW5(10-20)	L2128813-02	5/28/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW5(65-70)	L2128813-04	5/28/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-TW1(20-30)	L2127174-01	5/21/2021	20-30	0.4	0.33	0.37	0.31	0.35	0.11	0.36	0.2	4.8	1.1	0.34	1.6	1	ND	6.5
7-TW1(25-30)	L2128067-04	5/24/2021	25-30	0.02 J	0.02 J	0.02 J	ND	0.02 J	ND	0.02 J	ND	ND	0.04 J	ND	0.06 J	0.04 J	ND	0.06
7-TW2(20-30)	L2127174-02	5/21/2021	20-30	0.33	0.36	0.17	0.12	0.12	0.05 J	0.14	0.07 J	1.9	0.46	0.38	1.1	0.49	ND	2.45
7-TW3(5-15)	L2127174-03	5/21/2021	5-15	0.21	0.18	0.31	0.26	0.38	0.1	0.31	0.21	4.8	0.67	0.14	0.6	0.61	ND	6.37
7-TW4-25	L2218426-01	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-40	L2218426-02	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-55	L2218426-03	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-70	L2218426-04	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-25	L2218426-05	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-40	L2218426-06	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-55	L2218426-07	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-70	L2218426-08	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-25	L2218426-09	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-40	L2218426-10	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-55	L2218426-11	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-70	L2218426-12	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-25	L2218426-13	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-40	L2218426-14	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-55	L2218426-15	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-70	L2218426-16	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9-TW1(5-15)	L2128656-01	5/27/2021	5-15	1	0.05 J	ND	ND	ND	ND	ND	ND	ND	0.04 J	0.05 J	0.14	0.04 J	ND	0
9-TW1(20-30)	L2128656-02	5/27/2021	20-30	0.1 J	0.03 J	ND	ND	ND	ND	ND	ND	1.6 J	0.03 J	0.05 J	0.09 J	0.06 J	ND	1.6
10-TW1(5-15)	L2128067-01	5/24/2021	5-15	0.6	0.14	0.28	0.22	0.27	0.08 J	0.28	0.16	2.6	0.47	0.12	0.45	0.46	ND	3.81
10-TW1(20-30)	L2128067-05	5/25/2021	20-30	1.8	0.08 J	0.04 J	0.02 J	0.03 J	0.01 J	0.03 J	0.02 J	2.7	0.08 J	0.28	0.12	0.08 J	ND	2.67
10-TW2(65-70)	L2128067-02	5/24/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW2(105-110)	L2128067-03	5/24/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
0-TW1(65-70)	L2129530-02	6/2/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
0-TW1(105-110)	L2129530-01	6/2/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
0-TW2(65-70)	L2129925-01	6/4/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1N-GW	L2335541-01	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1NN-GW	L2335541-02	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1E-GW	L2335541-03	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1S-GW	L2335541-04	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1SS-GW	L2335541-05	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1W-GW	L2335541-06	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1WW-GW	L2335541-07	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

ug/L: Micrograms per Liter
J: Estimated Concentration
ND: Not Detected
NS: Not Sampled
ND: MDL exceeds standard
560 Concentration in excess of most stringent criteria
560 Concentration in excess of the guidance value

TABLE 5
Remedial Investigation Groundwater Analytical Results – Temporary Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Metals Analysis																	
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Selenium	Silver	Sodium	Thallium	Zinc
New York Ambient Water Quality Standards (ug/L)				3	25	1,000	-	5	50	-	200	300	25	-	300	0.7	100	-	-	20,000	-	-
New York Ambient Water Quality Guidance Values (ug/L)				-	-	-	3	-	-	-	-	-	-	35,000	-	-	-	10	50	-	0.85	2,000
1-TW1(5-15)	L2128067-09	5/26/2021	5-15	3 J	27.32	300.6	0.26 J	0.88	15.04	5.19	52.18	15,000	472.6	23,300	644.7	3.54	9.94	NS	0.16 J	94,400	0.67 J	334.9
2-TW1(10-20)	L2128067-08	5/25/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW1(65-70)	L2128067-07	5/25/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW1(105-110)	L2128067-06	5/25/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW2(10-20)	L2128813-01	5/28/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW2(65-70)	L2129188-01	6/1/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW3(10-20)	L2128656-05	5/27/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW3(65-70)	L2129188-02	6/1/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW4(10-20)	L2128813-03	5/28/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW4(65-70)	L2129188-03	6/1/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW5(10-20)	L2128813-02	5/28/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW5(65-70)	L2128813-04	5/28/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-TW1(20-30)	L2127174-01	5/21/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW1(25-30)	L2128067-04	5/24/2021	25-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW2(20-30)	L2127174-02	5/21/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW3(5-15)	L2127174-03	5/21/2021	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-25	L2218426-01	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-40	L2218426-02	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-55	L2218426-03	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-70	L2218426-04	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-25	L2218426-05	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-40	L2218426-06	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-55	L2218426-07	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-70	L2218426-08	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-25	L2218426-09	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-40	L2218426-10	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-55	L2218426-11	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-70	L2218426-12	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-25	L2218426-13	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-40	L2218426-14	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-55	L2218426-15	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-70	L2218426-16	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9-TW1(5-15)	L2128656-01	5/27/2021	5-15	4.37	20.45	216.8	0.28 J	0.46	14.89	28.09	54.86	28,800	257.2	23,900	962.4	2.56	69.53	NS	0.28 J	418,000	0.15 J	207.8
9-TW1(20-30)	L2128656-02	5/27/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW1(5-15)	L2128067-01	5/24/2021	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW1(20-30)	L2128067-05	5/25/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW2(65-70)	L2128067-02	5/24/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW2(105-110)	L2128067-03	5/24/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
0-TW1(65-70)	L2129530-02	6/2/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
0-TW1(105-110)	L2129530-01	6/2/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
0-TW2(65-70)	L2129925-01	6/4/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1N-GW	L2335541-01	6/20/2023	5-15	66.77	24.65	399.1	0.24 J	0.58	111.7	6.48	219.6	21,400	422.5	18,800	828.6	122.2	93.96	4 J	1.46	51,200	0.2 J	446.3
8B-1NN-GW	L2335541-02	6/20/2023	5-15	230.1	159.7	1727	2.87	3.97	144	37.14	3076	164,000	3593	29,800	2,815	3,283	101.9	ND (8.65)	ND (0.16)	42,800	2.31 J	1,831
8B-1E-GW	L2335541-03	6/20/2023	5-15	53.9	28.58	420.5	0.25 J	0.4	55.34	4.58	138.7	12,800	399.8	14,800	941.5	15.65	24.65	4.73 J	0.75	77,400	0.21 J	173.2
8B-1S-GW	L2335541-04	6/20/2023	5-15	118.1	40.05	563	0.55	4.16	360.1	12.56	935.7	55,300	693.3	8,580	1,088	12.25	33.19	7.72	0.71	28,100	0.33 J	1,866
8B-1SS-GW	L2335541-05	6/20/2023	5-15	412.3	33.12	491.3	0.48 J	1.06	195.1	7	815.8	41,600	714.3	10,500	994.6	12.2	26.05	ND (1.73)	0.55	36,000	0.28 J	555.1
8B-1W-GW	L2335541-06	6/20/2023	5-15	2134	19.64	422.9	ND (0.1)	0.41	16.82	1.78	91.92	10,800	508.9	20,100	815.7	39.8	6.14	ND (1.73)	ND (0.16)	48,800	0.29 J	156.2
8B-1WW-GW	L2335541-07	6/20/2023	5-15	5.82	132.1	318.4	ND (0.1)	0.06 J	13.91	0.51	17.85	3,560	54.07	11,600	643.7	3.57	3.02	ND (1.73)	ND (0.16)	38,700	ND (0.14)	436.76

Legend:

ug/L: Micrograms per Liter
J: Estimated Concentration
ND: Not Detected
NS: Not Sampled
560 Concentration in excess of most stringent criteria
560 Concentration in excess of the guidance value

TABLE 5
Remedial Investigation Groundwater Analytical Results – Temporary Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Metals Analysis (dissolved)																
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	Antimony (Dissolved)	Arsenic (dissolved)	Barium (dissolved)	Beryllium (dissolved)	Cadmium (dissolved)	Chromium (dissolved)	Copper	Iron (dissolved)	Lead (dissolved)	Magnesium (dissolved)	Manganese (dissolved)	Mercury (dissolved)	Nickel (dissolved)	Sodium (dissolved)	Thallium (dissolved)	Vanadium (dissolved)	Zinc (dissolved)
New York Ambient Water Quality Standards (ug/L)				3	25	1,000	-	5	50	200	300	25	-	300	0.7	100	20,000	-	-	-
New York Ambient Water Quality Guidance Values (ug/L)				-	-	-	3	-	-	-	-	-	35,000	-	-	-	-	0.5	-	2,000
1-TW1(5-15)	L2128067-09	5/26/2021	5-15	2.88 J	6.98	91.63	ND	ND	0.56 J	ND	198	2.2	23,000	493.7	ND	2.28	103,000	ND	ND	8.6 J
2-TW1(10-20)	L2128067-08	5/25/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW1(65-70)	L2128067-07	5/25/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW1(105-110)	L2128067-06	5/25/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW2(10-20)	L2128813-01	5/28/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW2(65-70)	L2129188-01	6/1/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW3(10-20)	L2128656-05	5/27/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW3(65-70)	L2129188-02	6/1/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW4(10-20)	L2128813-03	5/28/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW4(65-70)	L2129188-03	6/1/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW5(10-20)	L2128813-02	5/28/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW5(65-70)	L2128813-04	5/28/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-TW1(20-30)	L2127174-01	5/21/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW1(25-30)	L2128067-04	5/24/2021	25-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW2(20-30)	L2127174-02	5/21/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW3(5-15)	L2127174-03	5/21/2021	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-25	L2218426-01	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-40	L2218426-02	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-55	L2218426-03	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-70	L2218426-04	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-25	L2218426-05	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-40	L2218426-06	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-55	L2218426-07	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-70	L2218426-08	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-25	L2218426-09	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-40	L2218426-10	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-55	L2218426-11	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-70	L2218426-12	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-25	L2218426-13	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-40	L2218426-14	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-55	L2218426-15	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-70	L2218426-16	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9-TW1(5-15)	L2128656-01	5/27/2021	5-15	1.66 J	3.87	49.79	ND	ND	1.17	0.95 J	602	3.15	19,300	754.6	ND	59.83	491,000	0.17 J	ND	13.32
9-TW1(20-30)	L2128656-02	5/27/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW1(5-15)	L2128067-01	5/24/2021	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW1(20-30)	L2128067-05	5/25/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW2(65-70)	L2128067-02	5/24/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW2(105-110)	L2128067-03	5/24/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
0-TW1(65-70)	L2129530-02	6/2/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
0-TW1(105-110)	L2129530-01	6/2/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
0-TW2(65-70)	L2129925-01	6/4/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1N-GW	L2335541-01	6/20/2023	5-15	49.01	13.6	184.3	ND (0.1)	ND (0.05)	5.77	0.93 J	310	0.91 J	16,500	579	ND (0.09)	7.37	51,200	ND (0.14)	1.57 J	ND (3.41)
8B-1NN-GW	L2335541-02	6/20/2023	5-15	126.3	10.61	165	ND (0.1)	ND (0.05)	0.98 J	6.87	247	10.5	13,400	290.2	0.65	3.55	43,900	ND (0.14)	6.2	5.93 J
8B-1E-GW	L2335541-03	6/20/2023	5-15	39.61	11.12	212.8	ND (0.1)	ND (0.05)	2.3	1.08	116	3.87	13,600	775.9	ND (0.09)	9.41	95,200	ND (0.14)	2.52 J	3.81 J
8B-1S-GW	L2335541-04	6/20/2023	5-15	36.16	3.52	68.75	ND (0.1)	ND (0.05)	0.61 J	0.93 J	92	0.65 J	6,270	484.1	ND (0.09)	4.95	29,100	ND (0.14)	ND (1.57)	8.06 J
8B-1SS-GW	L2335541-05	6/20/2023	5-15	70.37	5.06	90.87	ND (0.1)	ND (0.05)	0.35 J	0.4 J	97.6	ND (0.34)	8,890	652.7	ND (0.09)	4.6	38,000	ND (0.14)	ND (1.57)	ND (3.41)
8B-1W-GW	L2335541-06	6/20/2023	5-15	175.7	12.27	243.2	ND (0.1)	ND (0.05)	6.8	0.55 J	2,140	0.89 J	21,100	878.2	ND (0.09)	2.47	52,700	ND (0.14)	ND (1.57)	ND (3.41)
8B-1WW-GW	L2335541-07	6/20/2023	5-15	4.28	124.3	262.7	ND (0.1)	ND (0.05)	1.78	0.73 J	89.6	ND (0.34)	11,200	579.9	ND (0.09)	1.9 J	37,400	ND (0.14)	ND (1.57)	ND (3.41)

Legend:

ug/L:	Micrograms per Liter
J:	Estimated Concentration
ND:	Not Detected
NS:	Not Sampled
560	Concentration in excess of most stringent criteria
560	Concentration in excess of the guidance value

TABLE 5
Remedial Investigation Groundwater Analytical Results – Temporary Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Pesticides		PCBs	Emerging Contaminants
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	4,4'-DDE	Alpha-BHC	Total PCBs	1,4-Dioxane
New York Ambient Water Quality Standards (ug/L)				0.2	0.01	0.09	-
New York Ambient Water Quality Guidance Values (ug/L)				-	-	-	-
1-TW1(5-15)	L2128067-09	5/26/2021	5-15	ND	ND	ND	0.242
2-TW1(10-20)	L2128067-08	5/25/2021	10-20	NS	NS	NS	NS
3-TW1(65-70)	L2128067-07	5/25/2021	65-70	NS	NS	NS	NS
3-TW1(105-110)	L2128067-06	5/25/2021	105-110	NS	NS	NS	NS
3-TW2(10-20)	L2128813-01	5/28/2021	10-20	NS	NS	NS	NS
3-TW2(65-70)	L2129188-01	6/1/2021	65-70	NS	NS	NS	NS
3-TW3(10-20)	L2128656-05	5/27/2021	10-20	NS	NS	NS	NS
3-TW3(65-70)	L2129188-02	6/1/2021	65-70	NS	NS	NS	NS
3-TW4(10-20)	L2128813-03	5/28/2021	10-20	NS	NS	NS	NS
3-TW4(65-70)	L2129188-03	6/1/2021	65-70	NS	NS	NS	NS
3-TW5(10-20)	L2128813-02	5/28/2021	10-20	NS	NS	NS	NS
3-TW5(65-70)	L2128813-04	5/28/2021	65-70	NS	NS	NS	NS
4-TW1(20-30)	L2127174-01	5/21/2021	20-30	NS	NS	NS	NS
7-TW1(25-30)	L2128067-04	5/24/2021	25-30	NS	NS	NS	NS
7-TW2(20-30)	L2127174-02	5/21/2021	20-30	NS	NS	NS	NS
7-TW3(5-15)	L2127174-03	5/21/2021	5-15	NS	NS	NS	NS
7-TW4-25	L2218426-01	4/7/2022	20-25	NS	NS	NS	ND
7-TW4-40	L2218426-02	4/7/2022	35-40	NS	NS	NS	ND
7-TW4-55	L2218426-03	4/7/2022	50-55	NS	NS	NS	ND
7-TW4-70	L2218426-04	4/7/2022	65-70	NS	NS	NS	ND
7-TW5-25	L2218426-05	4/8/2022	20-25	NS	NS	NS	ND
7-TW5-40	L2218426-06	4/8/2022	35-40	NS	NS	NS	ND
7-TW5-55	L2218426-07	4/8/2022	50-55	NS	NS	NS	ND
7-TW5-70	L2218426-08	4/8/2022	65-70	NS	NS	NS	ND
7-TW6-25	L2218426-09	4/7/2022	20-25	NS	NS	NS	ND
7-TW6-40	L2218426-10	4/7/2022	35-40	NS	NS	NS	ND
7-TW6-55	L2218426-11	4/7/2022	50-55	NS	NS	NS	ND
7-TW6-70	L2218426-12	4/7/2022	65-70	NS	NS	NS	ND
7-TW7-25	L2218426-13	4/8/2022	20-25	NS	NS	NS	ND
7-TW7-40	L2218426-14	4/8/2022	35-40	NS	NS	NS	ND
7-TW7-55	L2218426-15	4/8/2022	50-55	NS	NS	NS	ND
7-TW7-70	L2218426-16	4/8/2022	65-70	NS	NS	NS	ND
9-TW1(5-15)	L2128656-01	5/27/2021	5-15	ND	ND	ND	17.1
9-TW1(20-30)	L2128656-02	5/27/2021	20-30	NS	NS	NS	NS
10-TW1(5-15)	L2128067-01	5/24/2021	5-15	NS	NS	NS	NS
10-TW1(20-30)	L2128067-05	5/25/2021	20-30	NS	NS	NS	NS
10-TW2(65-70)	L2128067-02	5/24/2021	65-70	NS	NS	NS	NS
10-TW2(105-110)	L2128067-03	5/24/2021	105-110	NS	NS	NS	NS
0-TW1(65-70)	L2129530-02	6/2/2021	65-70	NS	NS	NS	NS
0-TW1(105-110)	L2129530-01	6/2/2021	105-110	NS	NS	NS	NS
0-TW2(65-70)	L2129925-01	6/4/2021	65-70	NS	NS	NS	NS
8B-1N-GW	L2335541-01	6/20/2023	5-15	NS	NS	NS	NS
8B-1NN-GW	L2335541-02	6/20/2023	5-15	NS	NS	NS	NS
8B-1E-GW	L2335541-03	6/20/2023	5-15	NS	NS	NS	NS
8B-1S-GW	L2335541-04	6/20/2023	5-15	NS	NS	NS	NS
8B-1SS-GW	L2335541-05	6/20/2023	5-15	NS	NS	NS	NS
8B-1W-GW	L2335541-06	6/20/2023	5-15	NS	NS	NS	NS
8B-1WW-GW	L2335541-07	6/20/2023	5-15	NS	NS	NS	NS

Legend:

ug/L: Micrograms per Liter
J: Estimated Concentration
ND: Not Detected
560 Concentration in excess of most stringent criteria

TABLE 5
Remedial Investigation Groundwater Analytical Results – Temporary Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				PFAS																					
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	8:2FTS	6:2FTS	NEtFOSAA	NMeFOSAA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNA	POSA	PFOS	PFOA	PFPeA	PFTA	PFTrDA	PFUnA	Total
New York Ambient Water Quality Standards (ng/L)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New York Ambient Water Quality Guidance Values (ng/L)				10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1-TW1(5-15)	L2128067-09	5/26/2021	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-TW1(10-20)	L2128067-08	5/25/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW1(65-70)	L2128067-07	5/25/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW1(105-110)	L2128067-06	5/25/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW2(10-20)	L2128813-01	5/28/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW2(65-70)	L2129188-01	6/1/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW3(10-20)	L2128656-05	5/27/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW3(65-70)	L2129188-02	6/1/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW4(10-20)	L2128813-03	5/28/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW4(65-70)	L2129188-03	6/1/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW5(10-20)	L2128813-02	5/28/2021	10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-TW5(65-70)	L2128813-04	5/28/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-TW1(20-30)	L2127174-01	5/21/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW1(25-30)	L2128067-04	5/24/2021	25-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW2(20-30)	L2127174-02	5/21/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW3(5-15)	L2127174-03	5/21/2021	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-25	L2218426-01	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-40	L2218426-02	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-55	L2218426-03	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-70	L2218426-04	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-25	L2218426-05	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-40	L2218426-06	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-55	L2218426-07	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-70	L2218426-08	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-25	L2218426-09	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-40	L2218426-10	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-55	L2218426-11	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-70	L2218426-12	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-25	L2218426-13	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-40	L2218426-14	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-55	L2218426-15	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-70	L2218426-16	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9-TW1(5-15)	L2128656-01	5/27/2021	5-15	ND (1.84)	2.87	**14.6 F**	ND (1.84)	**10.4**	**43.1**	ND (1.84)	ND (1.84)	ND (1.84)	1.98	**35.7**	**38.2**	**54.7**	3.17	ND (1.84)	**71.8**	**138**	**62.1**	ND (1.84)	ND (1.84)	ND (1.84)	**462.02**
9-TW1(20-30)	L2128656-02	5/27/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW1(5-15)	L2128067-01	5/24/2021	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW1(20-30)	L2128067-05	5/25/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW2(65-70)	L2128067-02	5/24/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW2(105-110)	L2128067-03	5/24/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
0-TW1(65-70)	L2129530-02	6/2/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
0-TW1(105-110)	L2129530-01	6/2/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
0-TW2(65-70)	L2129925-01	6/4/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1N-GW	L2335541-01	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1NN-GW	L2335541-02	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1E-GW	L2335541-03	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1S-GW	L2335541-04	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1SS-GW	L2335541-05	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1W-GW	L2335541-06	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8B-1WW-GW	L2335541-07	6/20/2023	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

ng/L: Nanograms per Liter, ppt
J: Estimated Concentration
f: The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
ND (1.84): Not Detected above reporting limit (RL)
NS: Not Sampled
560: Concentration in excess of most stringent criteria
560: Concentration in excess of the guidance value
8:2FTS: 1H,1H,2H,2H-Perfluorodecanesulfonic Acid
6:2FTS: 1H,1H,2H,2H-Perfluorooctanesulfonic Acid
NEtFOSAA: N-Ethyl Perfluorooctanesulfonamidoacetic Acid
NMeFOSAA: N-Methyl Perfluorooctanesulfonamidoacetic Acid
PFBS: Perfluorobutanesulfonic Acid
PFBA: Perfluorobutanoic Acid
PFDS: Perfluorodecanesulfonic Acid
PFDA: Perfluorodecanoic Acid
PFDoA: Perfluorododecanoic Acid
PFHpS: Perfluoroheptanesulfonic Acid
PFHpA: Perfluoroheptanoic Acid
PFHxS: Perfluorohexanesulfonic Acid
PFHxA: Perfluorohexanoic Acid
PFNA: Perfluorononanoic Acid
FOSA: Perfluorooctanesulfonamide
PFOS: Perfluorooctanesulfonic Acid
PFOA: Perfluorooctanoic Acid
PFPeA: Perfluoropentanoic Acid
PFTA: Perfluorotetradecanoic Acid
PFTrDA: Perfluorotridecanoic Acid
PFUnA: Perfluoroundecanoic Acid

TABLE 6
Remedial Investigation Groundwater Analytical Results – Permanent Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information							Volatiles												
Sample No.	Laboratory ID.#	Date Collected	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	PCE	TCE	cis-1,2-DCE	1,1-DCA	1,1-DCE	1,1,1-TCA	trans-1,2-DCE	Vinyl chloride	Acetone	Benzene	Naphthalene	Chloroform	p-Isopropyl toluene	TOTAL VOCS
NEW YORK STATE AMBIENT WATER QUALITY STANDARDS VALUES							5 ug/L	5 ug/L	5 ug/L	5 ug/L	5 ug/L	5 ug/L	5 ug/L	2 ug/L	20 ug/L	1 ug/L	-	7 ug/L	5 ug/L	-
NEW YORK STATE AMBIENT WATER QUALITY GUIDANCE VALUES							-	-	-	-	-	-	-	-	-	-	10 ug/L	-	-	-
MW-1	L2130572-01	6/7/2021	13.29	8.87	0.00	4.42	ND	ND	ND	ND	ND	ND	ND	ND	4.1 J	ND	31	ND	ND	35.1
MW-2	L2130572-02	6/7/2021	13.37	4.39	0.00	8.98	9,200	1,100	660	ND	ND	ND	ND	52	ND	ND	110 J	ND	ND	11,122
MW-3	L2130572-03	6/7/2021	13.50	8.41	0.00	5.09	0.36 J	ND	ND	ND	ND	ND	ND	0.19 J	20	ND	ND	1.2 J	ND	27.47
MW-4	L2130572-04	6/7/2021	13.00	8.70	0.00	4.30	5.8	ND	ND	ND	ND	ND	ND	ND	3.6 J	ND	0.7 J	ND	1.2 J	11.3
MW-5	L2130572-05	6/7/2021	12.54	7.77	0.00	4.77	0.54	ND	ND	ND	ND	ND	ND	ND	9.5	0.21 J	ND	2 J	ND	14.15
MW-6	L2130572-06	6/7/2021	11.95	7.66	0.00	4.29	ND	ND	ND	ND	ND	ND	ND	ND	1.8 J	ND	ND	ND	ND	1.8

Legend:

ug/L: Micrograms per Liter
J: Estimated Concentration
ND: Not Detected
560 Concentration in excess of most stringent criteria
560 Concentration in excess of the guidance value
PCE: Tetrachloroethene
TCE: Trichloroethene
cis-1,2-DCE: cis-1,2-Dichloroethene
1,1-DCA: 1,1-Dichloroethane
1,1-DCE: 1,1-Dichloroethene
1,1,1-TCA: 1,1,1-Trichloroethane
trans-1,2-DCE: trans-1,2-Dichloroethene

TABLE 6
Remedial Investigation Groundwater Analytical Results – Permanent Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information							Semi-Volatiles													
Sample No.	Laboratory ID.#	Date Collected	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(ghi) perylene	Benzo(k) fluoranthene	Chrysene	Indeno (1,2,3-cd) pyrene	Phenanthrene	Naphthalene	2-Methyl phenol	Bis(2-ethylhexyl) phthalate	Dibenzofuran	Phenol	TOTAL SVOCS
NEW YORK STATE AMBIENT WATER QUALITY STANDARDS VALUES							-	ND	-	-	-	-	-	-	-	1 ug/L	5 ug/L	0.0000007	1 ug/L	-
NEW YORK STATE AMBIENT WATER QUALITY GUIDANCE VALUES							0.002 ug/L	-	0.002 ug/L	-	0.002 ug/L	0.002 ug/L	0.002 ug/L	50 ug/L	10 ug/L	-	-	-	-	-
MW-1	L2130572-01	6/7/2021	13.29	8.87	0.00	4.42	17	14	17	9.4	4.9	15	10	44	20	5.3	ND	6.8	2.5 J	165.9
MW-2	L2130572-02	6/7/2021	13.37	4.39	0.00	8.98	1	1	1.2	0.79	0.43	0.93	0.82	0.77	0.41	ND	1.6 J	**ND**	ND	8.95
MW-3	L2130572-03	6/7/2021	13.50	8.41	0.00	5.09	0.15	0.15	0.18	0.15	0.07 J	0.16	0.14	0.32	0.32	ND	ND	**ND**	ND	1.64
MW-4	L2130572-04	6/7/2021	13.00	8.70	0.00	4.30	0.29	0.29	0.23	0.13	0.08 J	0.29	0.13	4.6	0.28	ND	ND	0.51 J	0.68 J	7.51
MW-5	L2130572-05	6/7/2021	12.54	7.77	0.00	4.77	0.18	0.18	0.2	0.13	0.05 J	0.16	0.13	0.73	0.61	ND	ND	**ND**	ND	7.32
MW-6	L2130572-06	6/7/2021	11.95	7.66	0.00	4.29	0.03 J	0.03 J	0.03 J	0.02 J	0.01 J	0.02 J	0.02 J	0.04 J	ND	ND	ND	**ND**	ND	0.20

Legend:

ug/L: Micrograms per Liter
J: Estimated Concentration
ND: Not Detected
560 Concentration in excess of most stringent criteria
560 Concentration in excess of the guidance value

TABLE 6
Remedial Investigation Groundwater Analytical Results – Permanent Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information							Metals Analysis													
Sample No.	Laboratory ID.#	Date Collected	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	Antimony	Arsenic	Barium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Sodium	Thallium	Vanadium	Zinc
NEW YORK STATE AMBIENT WATER QUALITY STANDARDS VALUES							3 ug/L	25 ug/L	1,000 ug/L	50 ug/L	200 ug/L	300 ug/L	25 ug/L	300 ug/L	0.7 ug/L	100 ug/L	20,000 ug/L	-	-	-
NEW YORK STATE AMBIENT WATER QUALITY GUIDANCE VALUES							-	-	-	-	-	-	-	-	-	-	-	0.5 ug/L	-	2,000 ug/L
MW-1	L2130572-01	6/7/2021	13.29	8.87	0.00	4.42	3.21 J	38.18	611.4	26.76	150	18,200	430.1	498.9	2.37	8.14	78,500	0.28 J	5.68	548.6
MW-2	L2130572-02	6/7/2021	13.37	4.39	0.00	8.98	2.64 J	4.01	101.8	17.45	117.5	8,930	151.3	201.9	0.62	5.01	18,800	ND	4.54 J	149.2
MW-3	L2130572-03	6/7/2021	13.50	8.41	0.00	5.09	3.34 J	11.48	263.9	77.91	110.4	23,200	457.2	343.8	1.42	34.59	376,000	0.14 J	74.58	293.3
MW-4	L2130572-04	6/7/2021	13.00	8.70	0.00	4.30	7.27	4.63	166.1	1.27	7.68	7,500	85.25	1,276	0.29	0.97 J	144,000	ND	ND	44.25
MW-5	L2130572-05	6/7/2021	12.54	7.77	0.00	4.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	L2130572-06	6/7/2021	11.95	7.66	0.00	4.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Information							Metals Analysis (dissolved)													
Sample No.	Laboratory ID.#	Date Collected	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	Antimony (dissolved)	Arsenic (dissolved)	Barium (dissolved)	Chromium (dissolved)	Copper (dissolved)	Iron (dissolved)	Lead (dissolved)	Manganese (dissolved)	Mercury (dissolved)	Nickel (dissolved)	Sodium (dissolved)	Thallium (dissolved)	Vanadium (dissolved)	Zinc (dissolved)
NEW YORK STATE AMBIENT WATER QUALITY STANDARDS VALUES							3 ug/L	25 ug/L	1,000 ug/L	50 ug/L	200 ug/L	300 ug/L	25 ug/L	300 ug/L	0.7 ug/L	100 ug/L	20,000 ug/L	-	-	-
NEW YORK STATE AMBIENT WATER QUALITY GUIDANCE VALUES							-	-	-	-	-	-	-	-	-	-	-	0.5 ug/L	-	2,000 ug/L
MW-1	L2130572-01	6/7/2021	13.29	8.87	0.00	4.42	2.59 J	7.16	323	0.65 J	ND	207	ND	432.7	ND	3.29	81,000	ND	ND	ND
MW-2	L2130572-02	6/7/2021	13.37	4.39	0.00	8.98	2.31 J	1.11	15.94	ND	0.46 J	37.5	ND	101.1	ND	1.16 J	17,800	ND	ND	ND
MW-3	L2130572-03	6/7/2021	13.50	8.41	0.00	5.09	4.01	7.33	64.62	8.22	6.29	1,500	46.86	59.44	ND	8.91	338,000	ND	25.1	19.66
MW-4	L2130572-04	6/7/2021	13.00	8.70	0.00	4.30	4.65	1.17	121.5	ND	ND	39.3 J	ND	1,241	ND	0.64 J	138,000	ND	ND	ND
MW-5	L2130572-05	6/7/2021	12.54	7.77	0.00	4.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	L2130572-06	6/7/2021	11.95	7.66	0.00	4.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

ug/L:	Micrograms per Liter
J:	Estimated Concentration
ND:	Not Detected
560	Concentration in excess of most stringent criteria
560	Concentration in excess of the guidance value

TABLE 6
Remedial Investigation Groundwater Analytical Results – Permanent Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information							Pesticides			PCBs			Emerging Contaminants
Sample No.	Laboratory ID.#	Date Collected	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	4,4'-DDE	Alpha-BHC	Heptachlor epoxide	Aroclor 1254	Aroclor 1260	Total PCBs	1,4-Dioxane
NEW YORK STATE AMBIENT WATER QUALITY STANDARDS VALUES							0.2 ug/L	0.01 ug/L	0.03 ug/L	0.09 ug/L	0.09 ug/L	0.09 ug/L	
NEW YORK STATE AMBIENT WATER QUALITY GUIDANCE VALUES							-	-	-	-	-	-	
MW-1	L2130572-01	6/7/2021	13.29	8.87	0.00	4.42	**ND**	**ND**	**ND**	ND	ND	ND	1.18
MW-2	L2130572-02	6/7/2021	13.37	4.39	0.00	8.98	0.006 J	**ND**	**ND**	ND	ND	ND	ND
MW-3	L2130572-03	6/7/2021	13.50	8.41	0.00	5.09	ND	ND	ND	**0.102**	ND	**0.102**	**2.74**
MW-4	L2130572-04	6/7/2021	13.00	8.70	0.00	4.30	**ND**	**ND**	**ND**	ND	0.071 J	0.071 J	ND
MW-5	L2130572-05	6/7/2021	12.54	7.77	0.00	4.77	NS	NS	NS	NS	NS	NS	NS
MW-6	L2130572-06	6/7/2021	11.95	7.66	0.00	4.29	NS	NS	NS	NS	NS	NS	NS

Legend:

ug/L: Micrograms per Liter
J: Estimated Concentration
ND: Not Detected
560 Concentration in excess of most stringent criteria
560 Concentration in excess of the guidance value

TABLE 6
Remedial Investigation Groundwater Analytical Results – Permanent Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information							PFAs																		
Sample No.	Laboratory ID.#	Date Collected	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	8:2FTS	6:2FTS	NEtFOSAA	NMeFOSAA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNA	POSA	PFOS	PFOA	PFPeA	PFTA	PFTrDA	PFUnA	Total
NEW YORK STATE AMBIENT WATER QUALITY STANDARDS VALUES							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW YORK STATE AMBIENT WATER QUALITY GUIDANCE VALUES							10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)
MW-1	L2130572-01	6/7/2021	13.29	8.87	0.00	4.42	ND (1.77)	18.9	**2.4**	ND (1.77)	**4.34**	13.1	ND (1.77)	ND (1.77)	ND (1.77)	**1.4 J**	10	35.2	19.6	**3.9**	ND (1.77)	67.9	41.1	29.1	ND (1.77)	ND (1.77)	ND (1.77)	245.54
MW-2	L2130572-02	6/7/2021	13.37	4.39	0.00	8.98	ND (1.79)	ND (1.79)	71.3	ND (1.79)	**3.08**	**9.9**	**3.82**	**3.47**	ND (1.79)	**2.12 F**	**7.05**	12.7	16.1	**3.97**	**7.34 F**	284	16	21.7	ND (1.79)	ND (1.79)	**0.36 J**	453.09
MW-3	L2130572-03	6/7/2021	13.50	8.41	0.00	5.09	ND (10)	ND (10)	ND (10)	ND (10)	**7.7 J**	95.6	ND (10)	**2.14 J**	ND (10)	ND (10)	84.9	18.8	96.3	**6.84 J**	ND (10)	150	136	141	ND (10)	ND (10)	ND (10)	722.6
MW-4	L2130572-04	6/7/2021	13.00	8.70	0.00	4.30	ND (1.92)	ND (1.92)	**0.917 J**	ND (1.92)	13.8	55.9	ND (1.92)	**0.813 J**	ND (1.92)	**0.913 J**	129	16.7	105	22.5	ND (1.92)	56.1	86.3	160	ND (1.92)	ND (1.92)	ND (1.92)	645.3
MW-5	L2130572-05	6/7/2021	12.54	7.77	0.00	4.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	L2130572-06	6/7/2021	11.95	7.66	0.00	4.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

ng/L: Nanograms per Liter, ppt
J: Estimated Concentration
f: The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
ND (1.84): Not Detected above reporting limit (RL)
2.4 Concentration exceeds RL
560 Concentration in excess of most stringent criteria
560 Concentration in excess of the guidance value
8:2FTS: 1H,1H,2H,2H-Perfluorodecanesulfonic Acid
6:2FTS: 1H,1H,2H,2H-Perfluorooctanesulfonic Acid
NEtFOSAA: N-Ethyl Perfluorooctanesulfonamidoacetic Acid
NMeFOSAA: N-Methyl Perfluorooctanesulfonamidoacetic Acid
PFBS: Perfluorobutanesulfonic Acid
PFBA: Perfluorobutanoic Acid
PFDS: Perfluorodecanesulfonic Acid
PFDA: Perfluorodecanoic Acid
PFDoA: Perfluorododecanoic Acid
PFHpS: Perfluoroheptanesulfonic Acid
PFHpA: Perfluoroheptanoic Acid
PFHxS: Perfluorohexanesulfonic Acid
PFHxA: Perfluorohexanoic Acid
PFNA: Perfluorononanoic Acid
FOSA: Perfluorooctanesulfonamide
PFOS: Perfluorooctanesulfonic Acid
PFOA: Perfluorooctanoic Acid
PFPeA: Perfluoropentanoic Acid
PFTA: Perfluorotetradecanoic Acid
PFTrDA: Perfluorotridecanoic Acid
PFUnA: Perfluoroundecanoic Acid

TABLE 7
Remedial Investigation Soil Vapor Analytical Results
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

SAMPLE ID:		SV-1		SV-2		SV-3		SV-4		SV-5		SV-6	
LAB ID:		L2128590-01		L2128590-02		L2128590-03		L2128590-04		L2128590-05		L2128590-06	
COLLECTION DATE:		5/27/2021		5/27/2021		5/27/2021		5/27/2021		5/27/2021		5/27/2021	
SAMPLE DEPTH:		5 feet bgs		5 feet bgs		5 feet bgs		5 feet bgs		5 feet bgs		5 feet bgs	
SAMPLE MATRIX:		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR	
ANALYTE	CAS	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL	Conc	RL
1,1,1-Trichloroethane	71-55-6	ND	1.09	**9.6**	5.46	**43.2**	6.06	ND	18.2	ND	10.9	ND	2.02
1,1,2,2-Tetrachloroethane	79-34-5	ND	1.37	ND	6.87	ND	7.62	ND	22.9	ND	13.7	ND	2.54
1,1,2-Trichloroethane	79-00-5	ND	1.09	ND	5.46	ND	6.06	ND	18.2	ND	10.9	ND	2.02
1,1-Dichloroethane	75-34-3	ND	0.809	**5.75**	4.05	**63.5**	4.49	ND	13.5	ND	8.09	ND	1.5
1,1-Dichloroethene	75-35-4	ND	0.793	ND	3.96	ND	4.4	ND	13.2	ND	7.93	ND	1.47
1,2,4-Trichlorobenzene	120-82-1	ND	1.48	ND	7.42	ND	8.24	ND	24.7	ND	14.8	ND	2.75
1,2,4-Trimethylbenzene	95-63-6	**8.85**	0.983	**9.54**	4.92	**11.2**	5.46	ND	16.4	ND	9.83	**8.31**	1.82
1,2-Dibromoethane	106-93-4	ND	1.54	ND	7.69	ND	8.53	ND	25.6	ND	15.4	ND	2.84
1,2-Dichlorobenzene	95-50-1	ND	1.2	ND	6.01	ND	6.67	ND	20	ND	12	ND	2.22
1,2-Dichloroethane	107-06-2	ND	0.809	ND	4.05	ND	4.49	ND	13.5	ND	8.09	ND	1.5
1,2-Dichloropropane	78-87-5	ND	0.924	ND	4.62	ND	5.13	ND	15.4	ND	9.24	ND	1.71
1,3,5-Trimethylbenzene	108-67-8	**2.27**	0.983	ND	4.92	ND	5.46	ND	16.4	ND	9.83	ND	1.82
1,3-Butadiene	106-99-0	ND	0.442	ND	2.21	**23**	2.46	ND	7.37	ND	4.42	**3.65**	0.819
1,3-Dichlorobenzene	541-73-1	ND	1.2	ND	6.01	ND	6.67	ND	20	ND	12	ND	2.22
1,4-Dichlorobenzene	106-46-7	ND	1.2	ND	6.01	ND	6.67	ND	20	ND	12	ND	2.22
1,4-Dioxane	123-91-1	ND	0.721	ND	3.6	ND	4	ND	12	ND	7.21	ND	1.33
2,2,4-Trimethylpentane	540-84-1	**12.5**	0.934	ND	4.67	ND	5.18	ND	15.6	ND	9.34	ND	1.73
2-Butanone	78-93-3	**13**	1.47	**67.2**	7.37	**211**	8.2	**107**	24.6	**57.2**	14.7	**23.3**	2.73
2-Hexanone	591-78-6	ND	0.82	**10.1**	4.1	**23.2**	4.55	**16.4**	13.6	ND	8.2	**4.07**	1.52
3-Chloropropene	107-05-1	ND	0.626	ND	3.13	ND	3.47	ND	10.4	ND	6.26	ND	1.16
4-Ethyltoluene	622-96-8	**1.21**	0.983	ND	4.92	ND	5.46	ND	16.4	ND	9.83	ND	1.82
4-Methyl-2-pentanone	108-10-1	ND	2.05	ND	10.2	**59.8**	11.4	ND	34.2	ND	20.5	ND	3.79
Acetone	67-64-1	**53.4**	2.38	**3,040**	11.9	**3,750**	13.2	**7,840**	39.7	**1,480**	23.8	**1,090**	4.39
Benzene	71-43-2	**1.94**	0.639	**285**	3.19	**48.9**	3.55	**19.2**	10.6	ND	6.39	7	1.18
Benzyl chloride	100-44-7	ND	1.04	ND	5.18	ND	5.75	ND	17.2	ND	10.4	ND	1.92
Bromodichloromethane	75-27-4	ND	1.34	ND	6.7	ND	7.44	ND	22.3	ND	13.4	ND	2.48
Bromoform	75-25-2	ND	2.07	ND	10.3	ND	11.5	ND	34.4	ND	20.7	ND	3.83
Bromomethane	74-83-9	ND	0.777	ND	3.88	ND	4.31	ND	12.9	ND	7.77	ND	1.44
Carbon disulfide	75-15-0	**3.55**	0.623	**8.84**	3.11	**20.4**	3.46	**13.6**	10.4	**9.37**	6.23	**2.49**	1.15
Carbon tetrachloride	56-23-5	ND	1.26	ND	6.29	ND	6.98	ND	20.9	ND	12.6	ND	2.33
Chlorobenzene	108-90-7	ND	0.921	ND	4.61	ND	5.11	ND	15.3	ND	9.21	ND	1.7
Chloroethane	75-00-3	ND	0.528	ND	2.64	ND	2.93	ND	8.79	ND	5.28	ND	0.976
Chloroform	67-66-3	ND	0.977	**6.45**	4.88	**13.7**	5.42	ND	16.3	**786**	9.77	**12.3**	1.81
Chloromethane	74-87-3	**1.21**	0.413	ND	2.07	ND	2.29	ND	6.88	ND	4.13	ND	0.764
cis-1,2-Dichloroethene	156-59-2	ND	0.793	ND	3.96	ND	4.4	ND	13.2	**324**	7.93	**8.76**	1.47
cis-1,3-Dichloropropene	10061-01-5	ND	0.908	ND	4.54	ND	5.04	ND	15.1	ND	9.08	ND	1.68
Cyclohexane	110-82-7	**0.953**	0.688	ND	3.44	**15.4**	3.82	ND	11.5	ND	6.88	ND	1.27
Dibromochloromethane	124-48-1	ND	1.7	ND	8.52	ND	9.46	ND	28.4	ND	17	ND	3.15
Dichlorodifluoromethane	75-71-8	**2.37**	0.989	ND	4.94	ND	5.49	ND	16.5	ND	9.89	**2.09**	1.83
Ethanol	64-17-5	**73.3**	9.42	**51.4**	47.1	**251**	52.4	ND	157	**901**	94.2	ND	17.4
Ethyl Acetate	141-78-6	ND	1.8	ND	9.01	ND	10	ND	30.1	ND	18	ND	3.34
Ethylbenzene	100-41-4	**3.68**	0.869	**28.8**	4.34	**8.77**	4.82	ND	14.5	ND	8.69	**3.53**	1.61
Freon-113	76-13-1	ND	1.53	ND	7.66	ND	8.51	ND	25.5	ND	15.3	ND	2.84
Freon-114	76-14-2	ND	1.4	ND	6.99	ND	7.76	ND	23.3	ND	14	ND	2.59
Heptane	142-82-5	**2.09**	0.82	**7.09**	4.1	**28.5**	4.55	14.8	13.6	ND	8.2	**3.66**	1.52
Hexachlorobutadiene	87-68-3	ND	2.13	ND	10.7	ND	11.8	ND	35.5	ND	21.3	ND	3.95
Isopropanol	67-63-0	**3.61**	1.23	**11**	6.15	**39.6**	6.83	**9,140**	20.5	**26.8**	12.3	**2.97**	2.28
Methyl tert butyl ether	1634-04-4	ND	0.721	ND	3.61	ND	4	ND	12	ND	7.21	ND	1.33
Methylene chloride	75-09-2	ND	1.74	ND	8.69	ND	9.66	ND	29	ND	17.4	**21.8**	3.22
n-Hexane	110-54-3	**2.19**	0.705	**5.46**	3.52	**40.2**	3.91	**12.6**	11.7	ND	7.05	**4.23**	1.3
o-Xylene	95-47-6	**6.78**	0.869	**10.3**	4.34	**12**	4.82	ND	14.5	ND	8.69	**6.12**	1.61
p/m-Xylene	179601-23-1	**15**	1.74	**30.8**	8.69	**24.5**	9.64	ND	29	ND	17.4	**13.7**	3.22
Styrene	100-42-5	ND	0.852	ND	4.26	ND	4.73	ND	14.2	ND	8.52	ND	1.58
Tertiary butyl Alcohol	75-65-0	ND	1.52	**11.9**	7.58	**29**	8.43	ND	25.3	ND	15.2	**3.67**	2.81
Tetrachloroethene	127-18-4	ND	1.36	**23.2**	6.78	**60.6**	7.53	**96.3**	22.6	**4,750**	13.6	**94.9**	2.51
Tetrahydrofuran	109-99-9	**5.07**	1.47	ND	7.37	ND	8.2	ND	24.6	ND	14.7	**3.13**	2.73
Toluene	108-88-3	**16.7**	0.754	**72**	3.77	**52**	4.18	**20.7**	12.5	**12.7**	7.54	**13.7**	1.39
trans-1,2-Dichloroethene	156-60-5	ND	0.793	ND	3.96	ND	4.4	ND	13.2	ND	7.93	ND	1.47
trans-1,3-Dichloropropene	10061-02-6	ND	0.908	ND	4.54	ND	5.04	ND	15.1	ND	9.08	ND	1.68
Trichloroethene	79-01-6	ND	1.07	ND	5.37	**23.5**	5.97	ND	17.9	**763**	10.7	**16.5**	1.99
Trichlorofluoromethane	75-69-4	**1.26**	1.12	ND	5.62	ND	6.24	ND	18.7	ND	11.2	ND	2.08
Vinyl bromide	593-60-2	ND	0.874	ND	4.37	ND	4.85	ND	14.6	ND	8.74	ND	1.62
Vinyl chloride	75-01-4	ND	0.511	ND	2.56	ND	2.84	ND	8.51	ND	5.11	ND	0.946
Total BTEX		**44.1**		**426.9**		**134.17**		**39.9**		**12.7**		**44.05**	
Total VOCs		**230.933**		**3694.43**		**4852.97**		**17280.6**		**9110.07**		**1349.88**	
Methane	74-82-8	ND	0.227	ND	0.196	ND	0.189	ND	0.192	ND	0.189	ND	0.132

NOTES
ND : Not Detected
ug/m3 : micrograms per cubic meter
NE : Not Established

TABLE 8
Proposed ISCR Injection Intervals and Project-IR Mass
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

MW-2 Shallow, Intermediate, & Deep Zones		Residual Shallow Zone	
Vertical Interval (24)	**Mass of IR & Water Volume**	**Vertical Interval (6)**	**Mass of IR & Water Volume**
15 – 17 ft bgs	100 lbs & 48 USG	15 – 17 ft bgs	200 lbs & 96 USG
19 – 21 ft bgs	100 lbs & 48 USG	19 – 21 ft bgs	200 lbs & 96 USG
23 – 25 ft bgs	100 lbs & 48 USG	23 – 25 ft bgs	200 lbs & 96 USG
27 – 29 ft bgs	100 lbs & 48 USG	28 – 31 ft bgs	200 lbs & 96 USG
31 – 33 ft bgs	100 lbs & 48 USG	33 – 35 ft bgs	200 lbs & 96 USG
35 – 37 ft bgs	100 lbs & 48 USG	38 – 40 ft bgs	200 lbs & 96 USG
39 – 41 ft bgs	100 lbs & 48 USG	-	-
43 – 45 ft bgs	100 lbs & 48 USG	-	-
47 – 49 ft bgs	100 lbs & 48 USG	-	-
51 – 53 ft bgs	100 lbs & 48 USG	-	-
55 – 57 ft bgs	100 lbs & 48 USG	-	-
59 – 61 ft bgs	100 lbs & 48 USG	-	-
63 – 65 ft bgs	100 lbs & 48 USG	-	-
67 – 69 ft bgs	100 lbs & 48 USG	-	-
71 – 73 ft bgs	100 lbs & 48 USG	-	-
75 – 77 ft bgs	100 lbs & 48 USG	-	-
79 – 81 ft bgs	100 lbs & 48 USG	-	-
83 – 85 ft bgs	100 lbs & 48 USG	-	-
87 – 89 ft bgs	100 lbs & 48 USG	-	-
91 – 93 ft bgs	100 lbs & 48 USG	-	-
95 – 97 ft bgs	100 lbs & 48 USG	-	-
99 – 101 ft bgs	100 lbs & 48 USG	-	-
103 – 105 ft bgs	100 lbs & 48 USG	-	-
108 – 110 ft bgs	100 lbs & 48 USG	-	-
Total Mass & Volume	**14,400 lbs and 1,152 USG**	**-**	**20,400 lbs and 576 USG**
Total DHC	**12 liters or 2 liters/point**	**-**	**17 liters or 1 liter/point**

Note:
ft bgs : feet below ground surface
lbs : pounds
USG : gallon

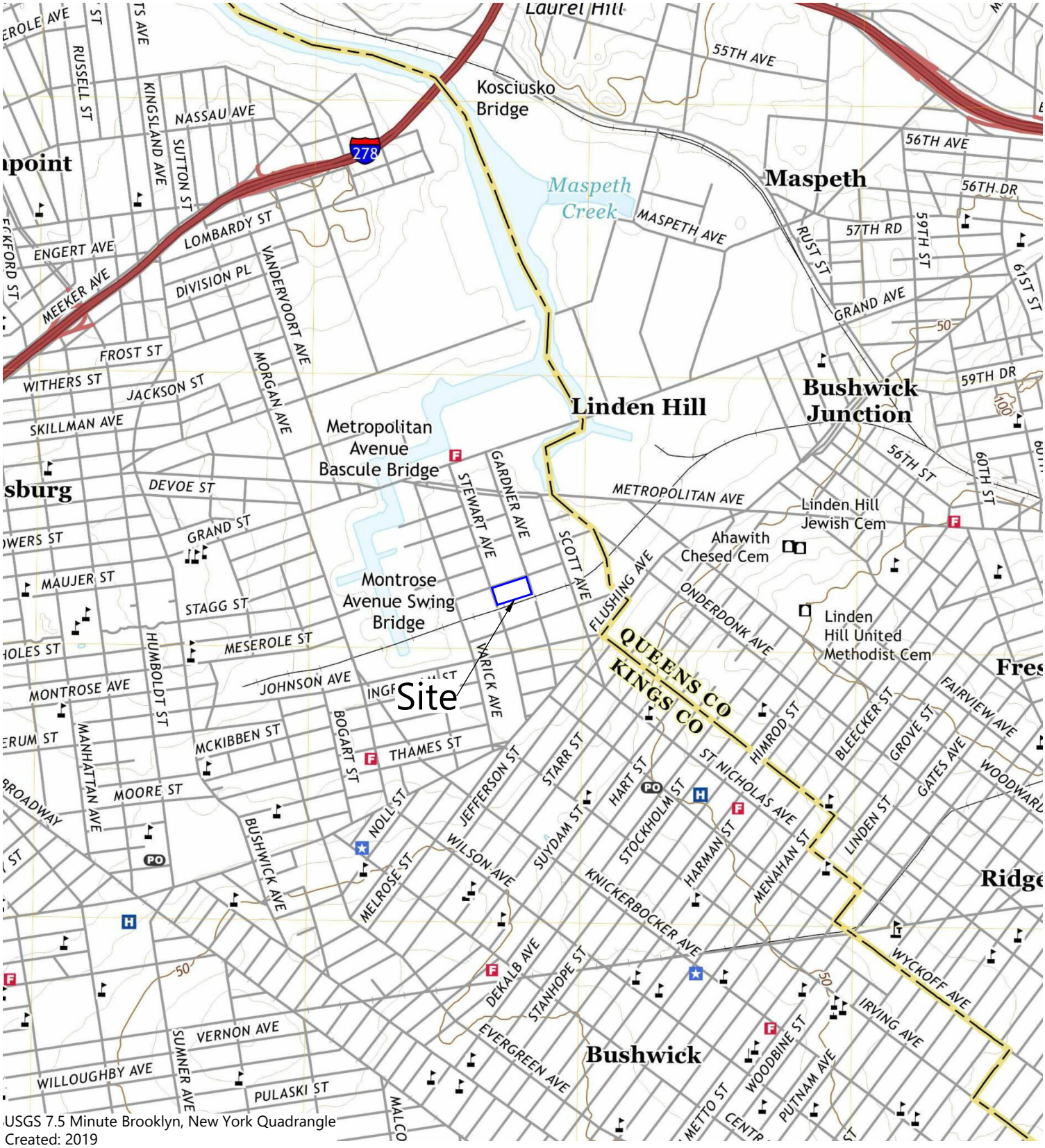
TABLE 9
Emergency Contacts
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Contact	Firm or Agency	Telephone Number
Police	NYPD	911
Fire	FDNY	911
Hospital	Wyckoff Heights Medical Center	(718) 963-7272
Ambluance	Wyckoff Heights Medical Center	911
Remedial Engineer	Kristine MacWilliams	(704) 893-8761
Project Manager	David Lent	(914) 222-8011
NYSDEC Site Contact	Mandy Yau	(718) 482-7778
NYSDEC Spills Hotline	NYSDEC	(800) 457-7362
NYSDOH Site Contact	Sara Bogardus	(518) 473-9800
BCP Volunteer Contact	Davina Mansur	(646) 659-0921
One Call Center	New York 811	(800) 272-4480
Poison Control Center	NYC Health Dept	(212) 764-7667
Chemtrec	Chemtrec	(800) 262-8200
National Response Center	US EPA	(800) 424-8802

TABLE 10
Estimate Schedule
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue & 140 Stewart Avenue
Brooklyn, New York

ACTIVITY	PLANNED START DATE
Draft RAWP Submittal	1/4/2024
Initial NYSDEC Public Comment Period	2/29/2024 to 4/14/2024
Send Fact Sheet to Contact List	2/29/2024
Revised Draft Submittal	7/19/2024
NYSDEC RAWP Approval	8/31/2024
Second NYSDEC Public Comment Period	9/1/2024 to 10/16/2024
Third Draft Submittal	3/3/2025
NYSDEC Draft Approval	3/17/2025
Mobilization	4/1/2025
cVOC Soil Hot Spot Remediation	4/7/2025
Monitoring Well Installations	4/14/2025
Baseline Groundwater Sampling	4/21/2025
ISCR Injections	4/28/2025
Post-Injection Groundwater Sampling	6/28/2025
Draft FER/SMP/EE Submittal	9/30/2025
NYSDEC/NYSDOH Review	10/1/2025
Final FER/SMP/EE Submittal	11/1/2025
NYSDEC Approval, Establishment of EE, and Issuance of Certificate of Completion	12/31/2025
Completion of Post-Remediation Groundwater Monitoring	6/28/2026

FIGURES



USGS 7.5 Minute Brooklyn, New York Quadrangle
Created: 2019

Legend

Site Boundary

N

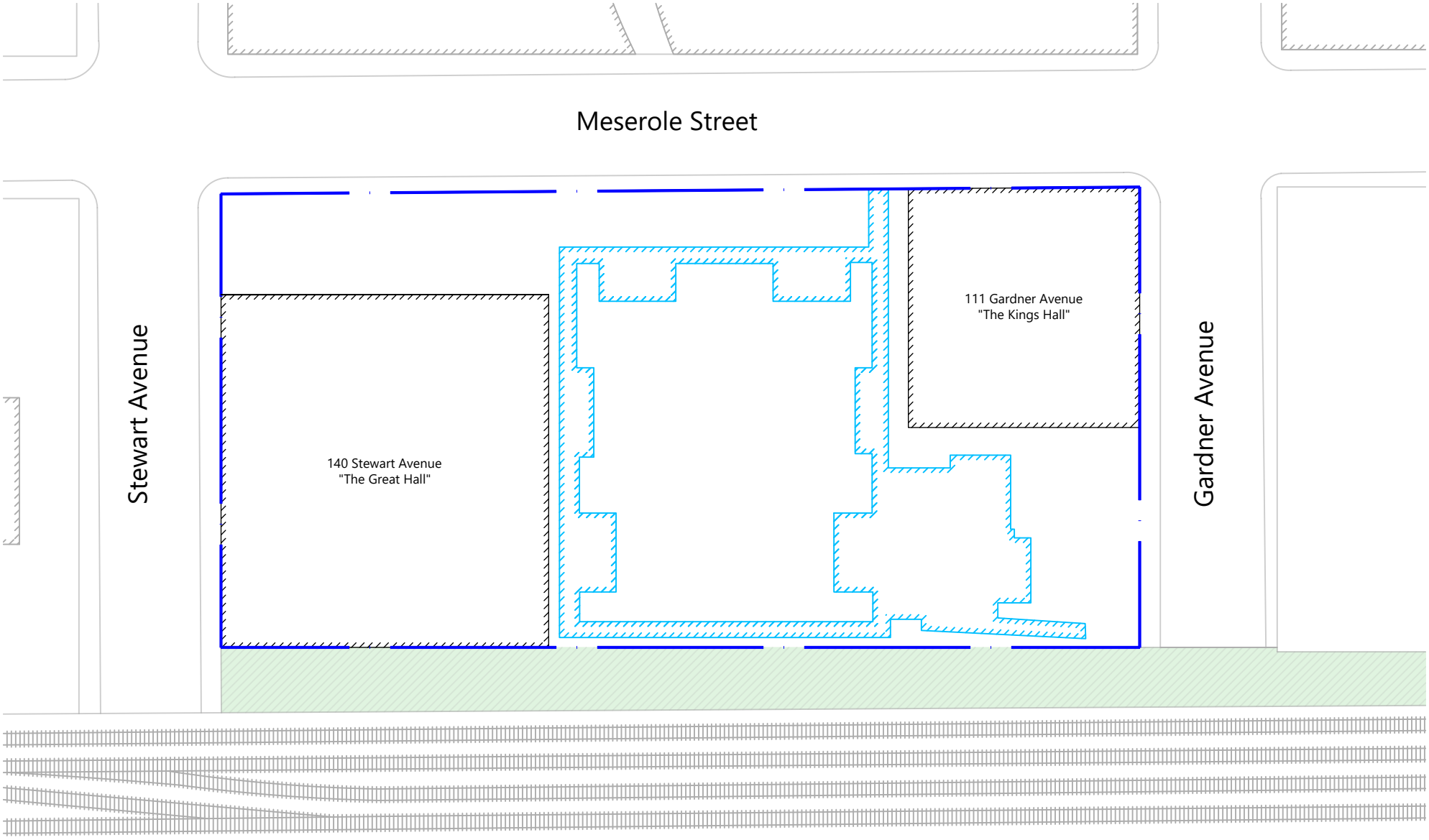
800' 0' 800' 1,600'

Approximate Scale

Title: Topographic Map			
Figure: 1	Prepared By: AS	Date: February 2022	Project Number: 17244793-EN

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



Legend and Notes:

- Site Boundary
- Site Building
- Scaffolding

- BGS = Below Ground Surface

N

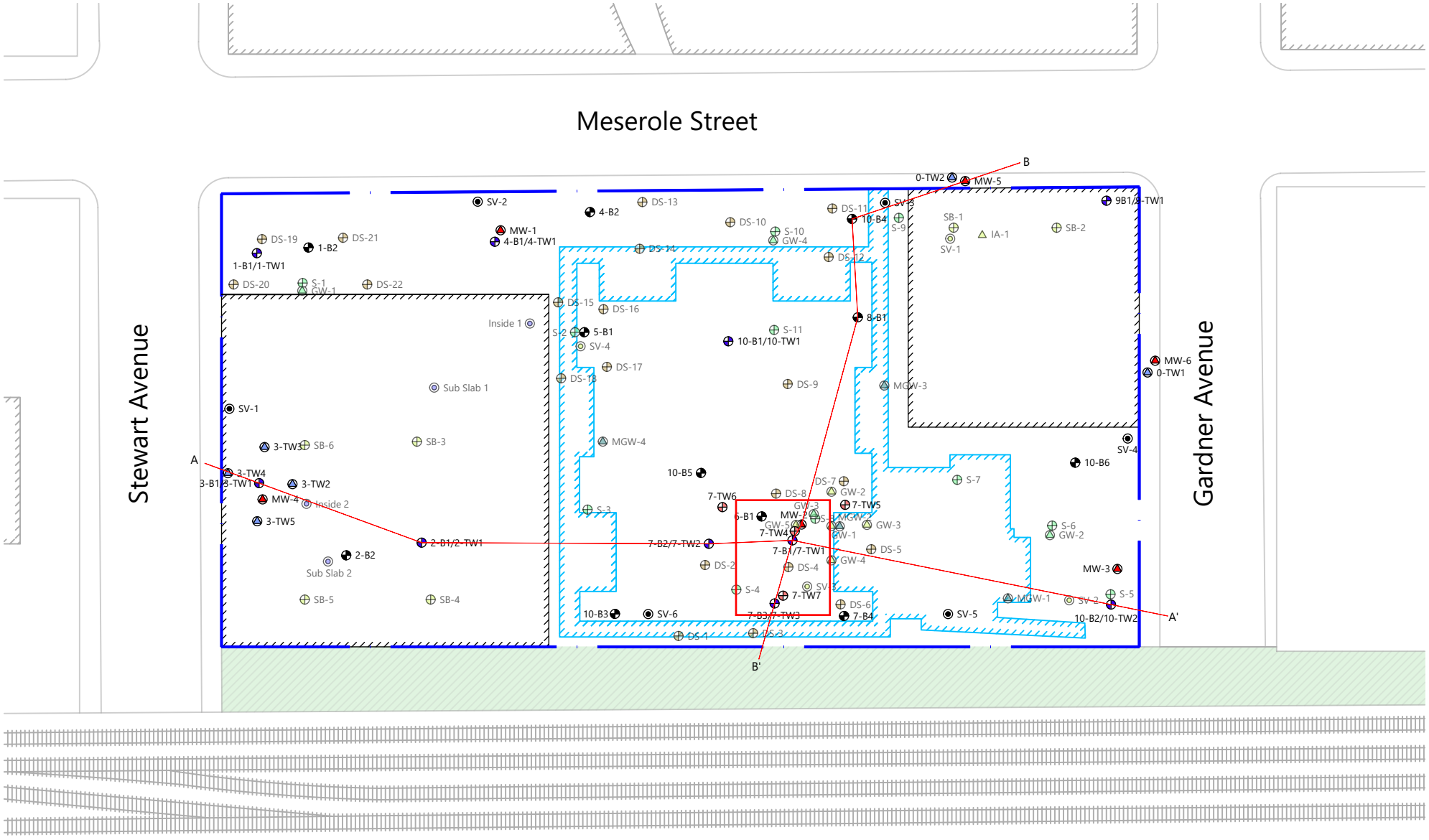
30' 0' 30' 60'

Approximate Scale

Title: **Site Boundary Map**			
Figure: **2**	Prepared By: **AS**	Date: **February 2022**	Project Number: **17244793-EN**

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



Legend and Notes:

Site Boundary	B-1	2022 Boring Location	Inside 1	Fromer Soil Vapor/Air Sampling Location (Previous Investigation)
Site Building	S-1	Former Soil Boring Location (Phase II)	IA-1	Indoor Air Sample Location (GCE SI)
Scaffolding	DS-1	Former Soil Boring Location (Phase III)		Cross-Section Line
1-B2 Soil Boring Location	SB-1	Former Soil Boring Location (GCE SI)		
9-B1 Soil Boring/Temporary Well Loction	GW-1	Former Groundwater Sample Loction (Phase II)		
SV-1 Soil Vapor Sample Location	GW-1	Former Groundwater Sample Location (GCE SI)		
MW-1 Monitoring Well Location	MGW-1	Former Groundwater Sample Location (Supplemental Phase II)		
0-TW1 Temporary Well Location	SV-1	Former Soil Vapor Sample Location (GCE SI)		

N

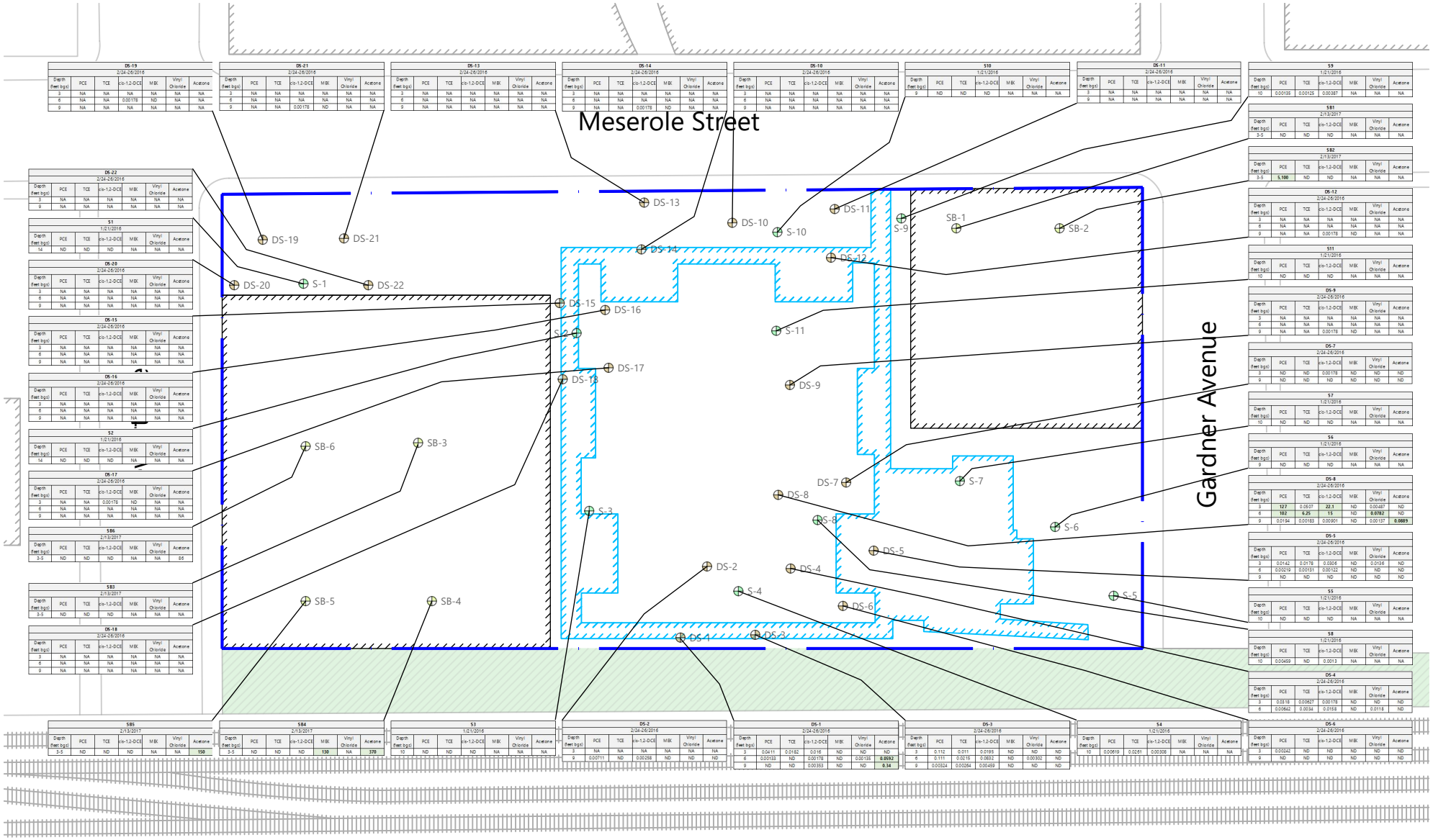
30' 0' 30' 60'

Approximate Scale

Title: **Sample Location Map**			
Figure: **3**	Prepared By: **AS**	Date: **August 2022**	Project Number: **17244793-EN**

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



Legend and Notes:

- Site Boundary
- Site Building
- Scaffolding
- S-1 — Former Soil Boring Location (Phase II)
- DS-1 — Former Soil Boring Location (Phase III)
- SB-1 — Former Soil Boring Location (GCE SI)
- Concentration Exceeds NY-UUSCO
- Concentration Exceeds NY-CSCO

- VOCs = Volatile Organic Compounds
- PCE = Tetrachloroethene
- TCE = Trichloroethene
- DCE = Dichloroethene
- MEK = Methyl Ethyl Ketone
- ND = not detected above Method Detection Limit
- NA = not analyzed
- J = estimated concentration
- NY-UUSCO = New York Unrestriced Use SCO
- NY-SCSO = New York Commercial SCO
- NY-Protection of GW = New York Protection of Groundwater SCO
- Concentrations presented in mg/kg (milligram per kilogram)

N

30' 0' 30' 60'

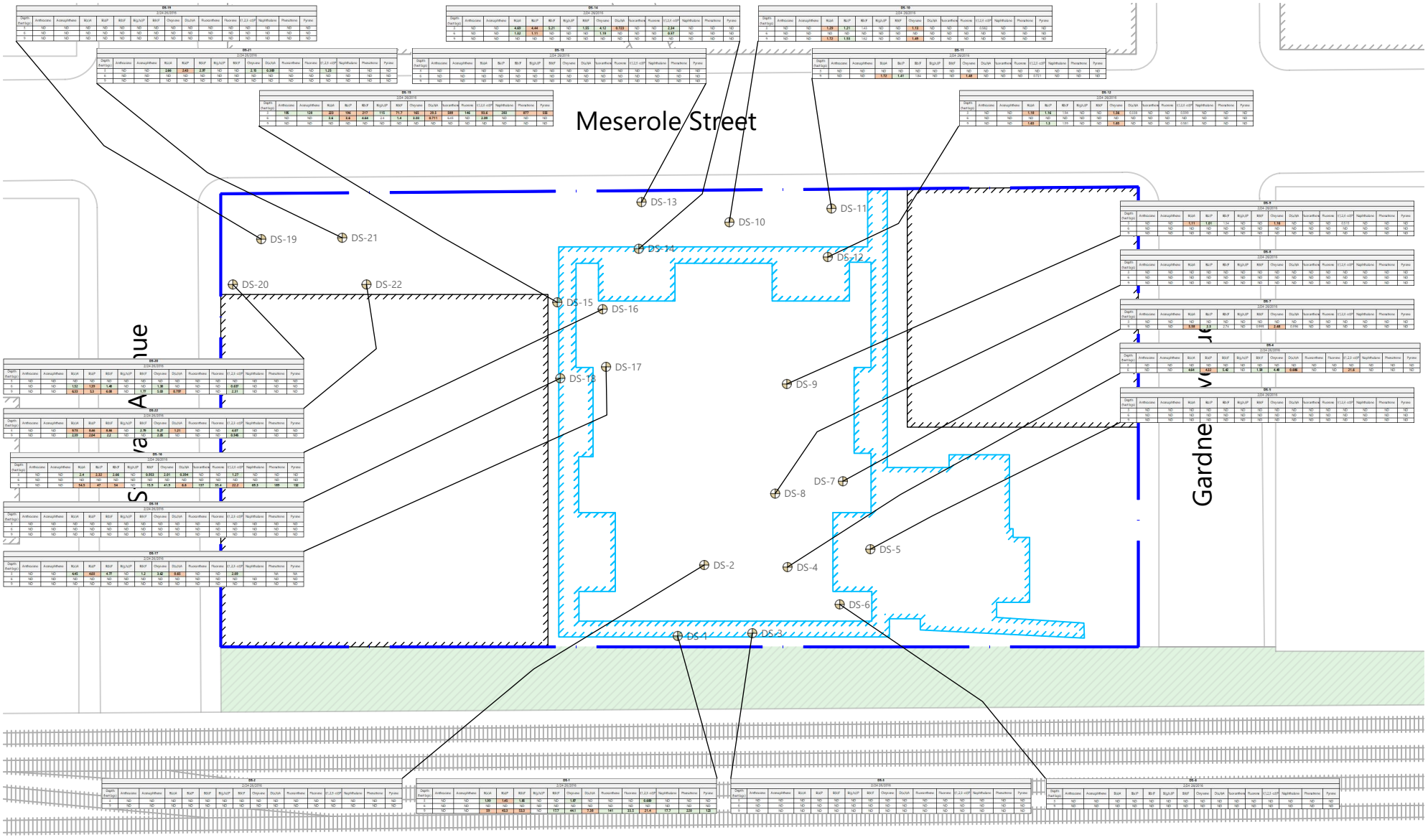
Approximate Scale

Title: **VOCs Exceedances in Soil - Historical Samples**

Figure:	Prepared By:	Date:	Project Number:
4.1	AS	February 2022	17244793-EN

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



Legend and Notes:

- Site Boundary
- Site Building
- Scaffolding
- DS-1 Former Soil Boring Location (GRS 2016)
- Concentration Exceeds NY-UUSCO
- Concentration Exceeds NY-CSCO

- SVOCs = Semi Volatile Organic Compounds
- B(a)P = Benzo(a)pyrene
- B(b)F = Benzo(b)fluoranthene
- B(k)F = Benzo(k)fluoranthene
- D(a,h)A = Dibenzo(a,h)anthracene
- I(1,2,3-cd)P = Indeno(1,2,3-cd)pyrene
- B(a)A = Benzo(a)anthracene
- B(g,h,i)P = Benzo(g,h,i)perylene
- ND = not detected above Method Detection Limit
- NY-UUSCO = New York Unrestriced Use SCO
- NY-SCSO = New York Commercial SCO
- NY-Protection of GW = New York Protection of Groundwater SCO
- Concentrations presented in mg/kg (milligram per kilogram)

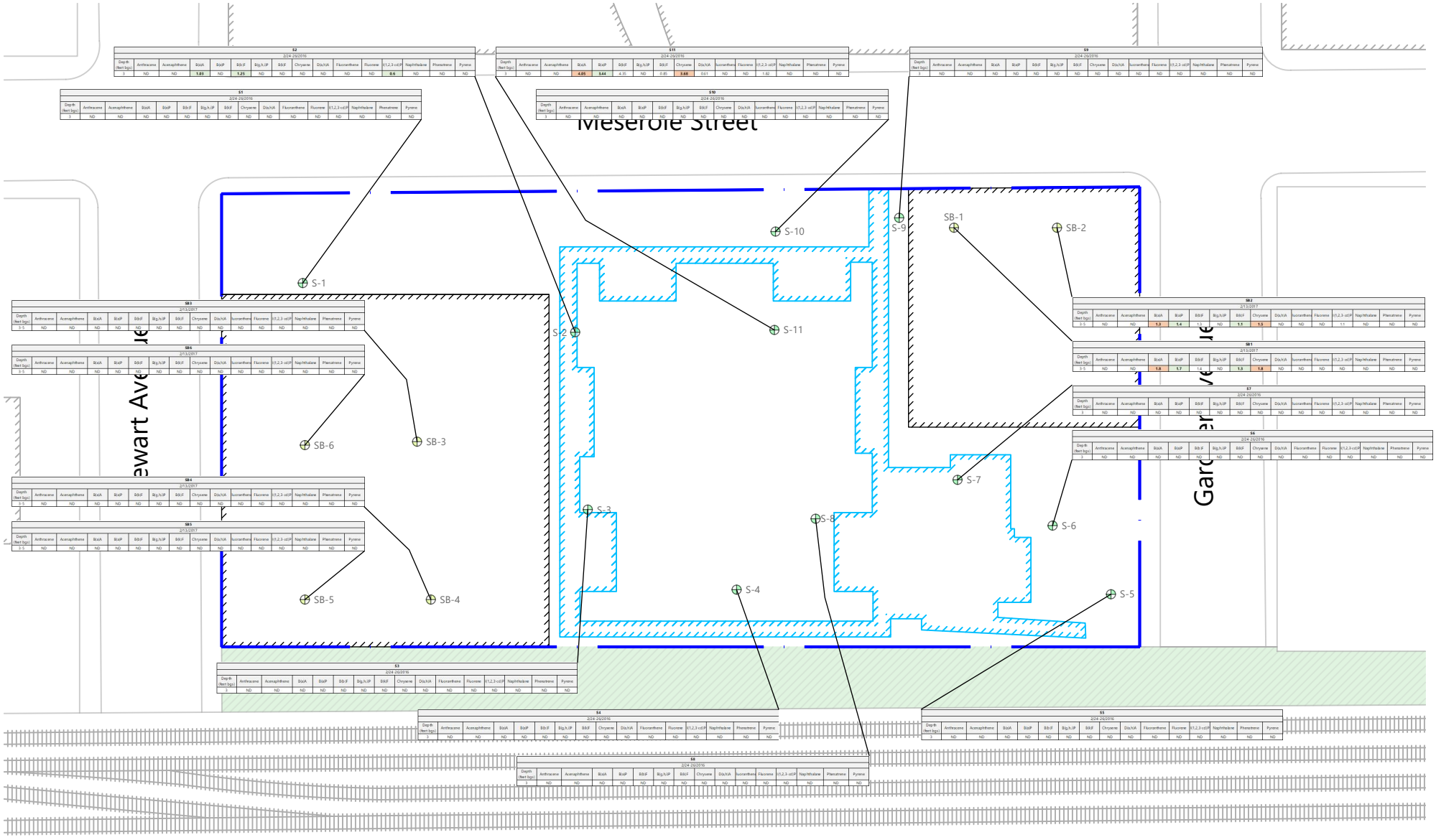
N

30' 0' 30' 60'

Approximate Scale

Title: **SVOCs Exceedances in Soil - Historical Samples (Phase II)**			
Figure: **4.2**	Prepared By: **AS**	Date: **February 2022**	Project Number: **17244793-EN**
Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258 **Brooklyn, New York 11237**			

PSG Engineering and Geology, D.P.C.



Legend and Notes:

- Site Boundary
- Site Building
- Scaffolding
- S-1 — Former Soil Boring Location (GRS 2016)
- SB-1 — Former Soil Boring Location (GRS 2016)
- Concentration Exceeds NY-UUSCO
- Concentration Exceeds NY-CSCO

- SVOCs = Semi Volatile Organic Compounds
- B(a)P = Benzo(a)pyrene
- B(b)F = Benzo(b)fluoranthene
- B(k)F = Benzo(k)fluoranthene
- D(a,h)A = Dibenzo(a,h)anthracene
- I(1,2,3-cd)P = Indeno(1,2,3-cd)pyrene
- B(a)A = Benzo(a)anthracene
- B(g,h,i)P = Benzo(g,h,i)perylene
- ND = not detected above Method Detection Limit
- NY-UUSCO = New York Unrestriced Use SCO
- NY-SCSO = New York Commercial SCO
- NY-Protection of GW = New York Protection of Groundwater SCO
- Concentrations presented in mg/kg (milligram per kilogram)

N

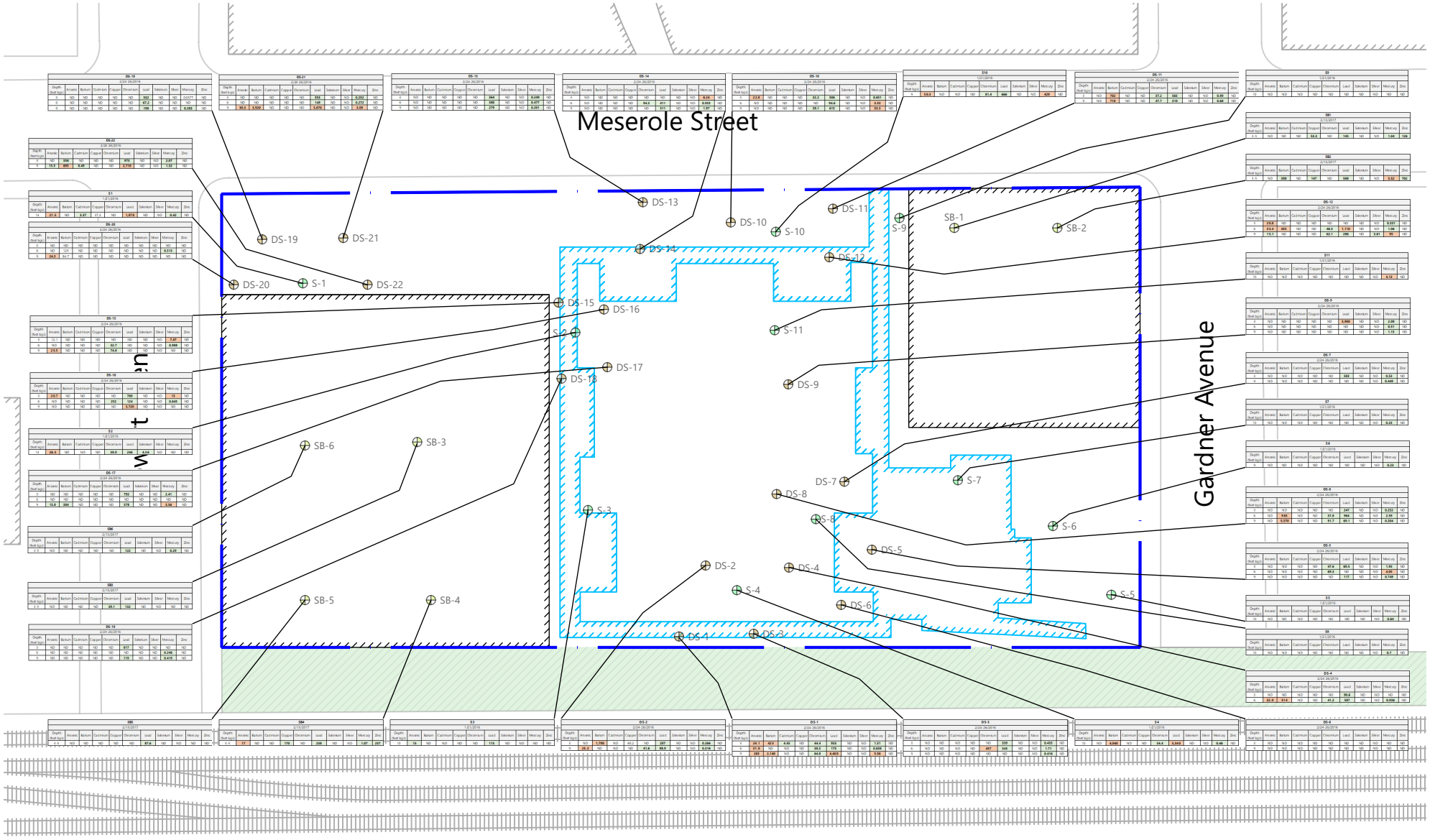
30' 0' 30' 60'

Approximate Scale

Title: SVOCs Exceedances in Soil - Historical Samples (Phase III and GCE SI)			
Figure: 4.3	Prepared By: AS	Date: February 2022	Project Number: 17244793-EN

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



Legend and Notes:

- Site Boundary
- Site Building
- Scaffolding
- S-1 — Former Soil Boring Location (Phase II)
- DS-1 — Former Soil Boring Location (Phase III)
- SB-1 — Former Soil Boring Location (GCE SI)
- Concentration Exceeds NY-UUSCO
- Concentration Exceeds NY-CSCO

N

30' 0' 30' 60'

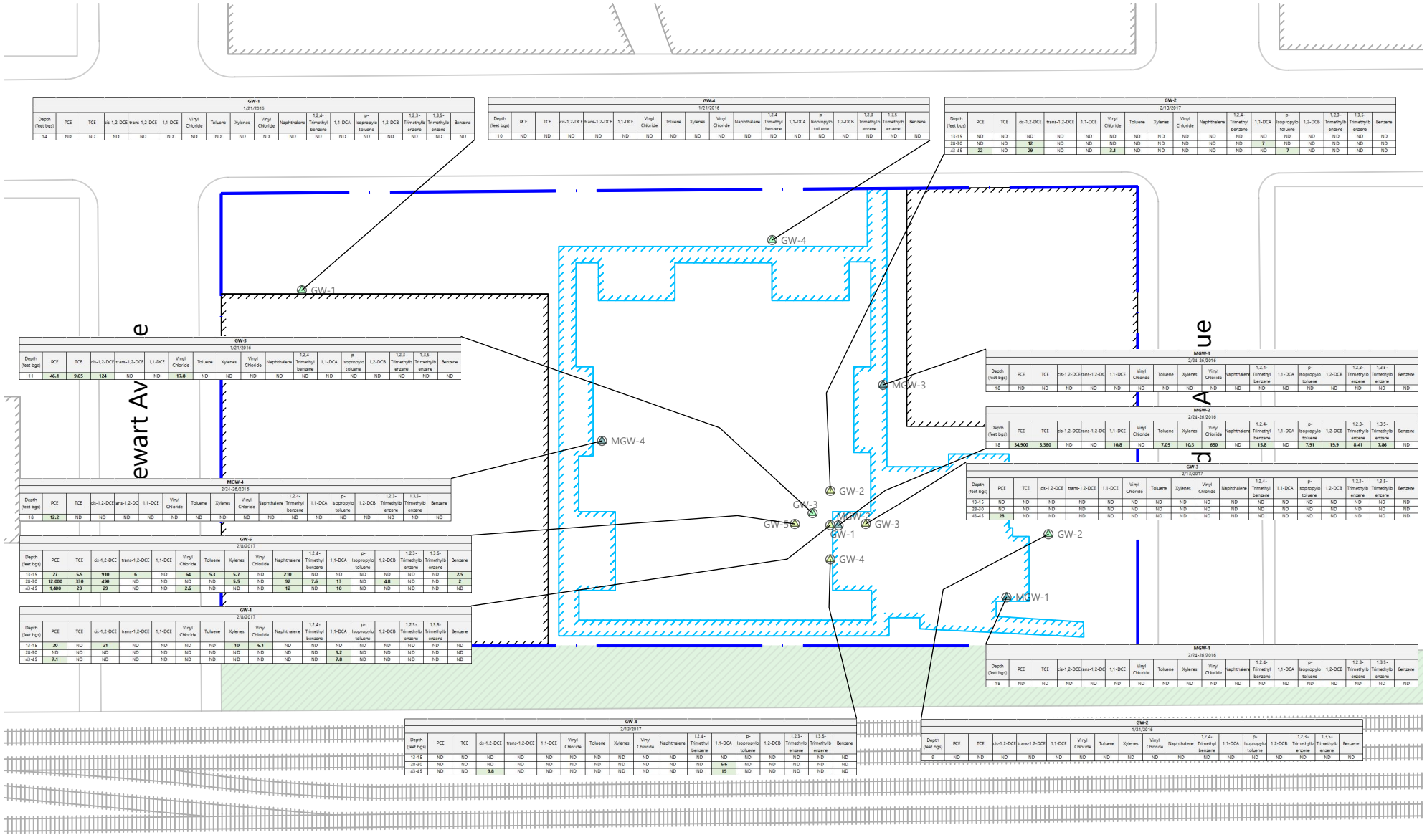
Approximate Scale

Title: **Metals Exceedances in Soil - Historical Samples**

Figure:	Prepared By:	Date:	Project Number:
4.4	AS	February 2022	17244793-EN

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



GW-1 1/21/2016

Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Toluene	Xylenes	Vinyl Chloride	Naphthalene	1,2,4-Trimethyl benzene	1,1-DCA	p-Isopropyl toluene	1,2-DCB	1,2,3-Trimethylb enzene	1,3,5-Trimethylb enzene	Benzene
1-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

GW-4 1/21/2016

Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Toluene	Xylenes	Vinyl Chloride	Naphthalene	1,2,4-Trimethyl benzene	1,1-DCA	p-Isopropyl toluene	1,2-DCB	1,2,3-Trimethylb enzene	1,3,5-Trimethylb enzene	Benzene
1-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

GW-2 2/13/2017

Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Toluene	Xylenes	Vinyl Chloride	Naphthalene	1,2,4-Trimethyl benzene	1,1-DCA	p-Isopropyl toluene	1,2-DCB	1,2,3-Trimethylb enzene	1,3,5-Trimethylb enzene	Benzene
13-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28-30	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	ND	ND
43-45	22	ND	29	ND	ND	3.1	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	ND

GW-3 1/21/2016

Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Toluene	Xylenes	Vinyl Chloride	Naphthalene	1,2,4-Trimethyl benzene	1,1-DCA	p-Isopropyl toluene	1,2-DCB	1,2,3-Trimethylb enzene	1,3,5-Trimethylb enzene	Benzene
11	46.1	9.65	124	ND	ND	17.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MGW-3 2/24-26,2016

Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DC	1,1-DCE	Vinyl Chloride	Toluene	Xylenes	Vinyl Chloride	Naphthalene	1,2,4-Trimethyl benzene	1,1-DCA	p-Isopropyl toluene	1,2-DCB	1,2,3-Trimethylb enzene	1,3,5-Trimethylb enzene	Benzene
18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MGW-2 2/24-26,2016

Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DC	1,1-DCE	Vinyl Chloride	Toluene	Xylenes	Vinyl Chloride	Naphthalene	1,2,4-Trimethyl benzene	1,1-DCA	p-Isopropyl toluene	1,2-DCB	1,2,3-Trimethylb enzene	1,3,5-Trimethylb enzene	Benzene
18	34,900	3,360	ND	ND	10.8	ND	7.05	10.3	650	ND	15.8	ND	7.91	19.9	8.41	7.86	ND

GW-3 2/13/2017

Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Toluene	Xylenes	Vinyl Chloride	Naphthalene	1,2,4-Trimethyl benzene	1,1-DCA	p-Isopropyl toluene	1,2-DCB	1,2,3-Trimethylb enzene	1,3,5-Trimethylb enzene	Benzene
13-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28-30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43-45	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MGW-4 2/24-26,2016

Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Toluene	Xylenes	Vinyl Chloride	Naphthalene	1,2,4-Trimethyl benzene	1,1-DCA	p-Isopropyl toluene	1,2-DCB	1,2,3-Trimethylb enzene	1,3,5-Trimethylb enzene	Benzene
18	12.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

GW-5 2/8/2017

Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Toluene	Xylenes	Vinyl Chloride	Naphthalene	1,2,4-Trimethyl benzene	1,1-DCA	p-Isopropyl toluene	1,2-DCB	1,2,3-Trimethylb enzene	1,3,5-Trimethylb enzene	Benzene
13-15	27	5.5	910	6	ND	64	5.3	5.7	ND	210	ND	ND	ND	ND	ND	ND	2.5
28-30	12,000	330	490	ND	ND	ND	ND	5.5	ND	92	7.6	13	ND	4.8	ND	ND	2
43-45	1,400	29	29	ND	ND	2.6	ND	ND	ND	12	ND	10	ND	ND	ND	ND	ND

GW-1 2/8/2017

Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Toluene	Xylenes	Vinyl Chloride	Naphthalene	1,2,4-Trimethyl benzene	1,1-DCA	p-Isopropyl toluene	1,2-DCB	1,2,3-Trimethylb enzene	1,3,5-Trimethylb enzene	Benzene
13-15	20	ND	21	ND	ND	ND	ND	10	6.1	ND	ND	ND	ND	ND	ND	ND	ND
28-30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.2	ND	ND	ND	ND	ND
43-45	7.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.8	ND	ND	ND	ND	ND

GW-4 2/13/2017

Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Toluene	Xylenes	Vinyl Chloride	Naphthalene	1,2,4-Trimethyl benzene	1,1-DCA	p-Isopropyl toluene	1,2-DCB	1,2,3-Trimethylb enzene	1,3,5-Trimethylb enzene	Benzene
13-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28-30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.6	ND	ND	ND	ND	ND
43-45	ND	ND	9.8	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND

GW-2 1/21/2016

Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Toluene	Xylenes	Vinyl Chloride	Naphthalene	1,2,4-Trimethyl benzene	1,1-DCA	p-Isopropyl toluene	1,2-DCB	1,2,3-Trimethylb enzene	1,3,5-Trimethylb enzene	Benzene
9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MGW-1 2/24-26,2016

Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DC	1,1-DCE	Vinyl Chloride	Toluene	Xylenes	Vinyl Chloride	Naphthalene	1,2,4-Trimethyl benzene	1,1-DCA	p-Isopropyl toluene	1,2-DCB	1,2,3-Trimethylb enzene	1,3,5-Trimethylb enzene	Benzene
18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Legend and Notes:

- Site Boundary
- Site Building
- Scaffolding
- GW-1 — Former Groundwater Sample Loction (Phase II)
- GW-1 — Former Groundwater Sample Location (GCE SI)
- MGW-1 — Former Groundwater Sample Location (Supplemental Phase II)
- Concentration Exceeds NYSDEC AWQS

- VOCs = Volatile Organic Compounds
- PCE = Tetrachloroethene
- TCE = Trichloroethene
- DCE = Dichloroethene
- DCA = Dichloroethane
- DCB = Dichlorobenzene
- ND = not detected above Method Detection Limit
- NYSDEC AWQS = New York Department of Conservation Ambient Water Quality Standards
- Concentrations presented in µg/l (microgram per liter)

N

30' 0' 30' 60'

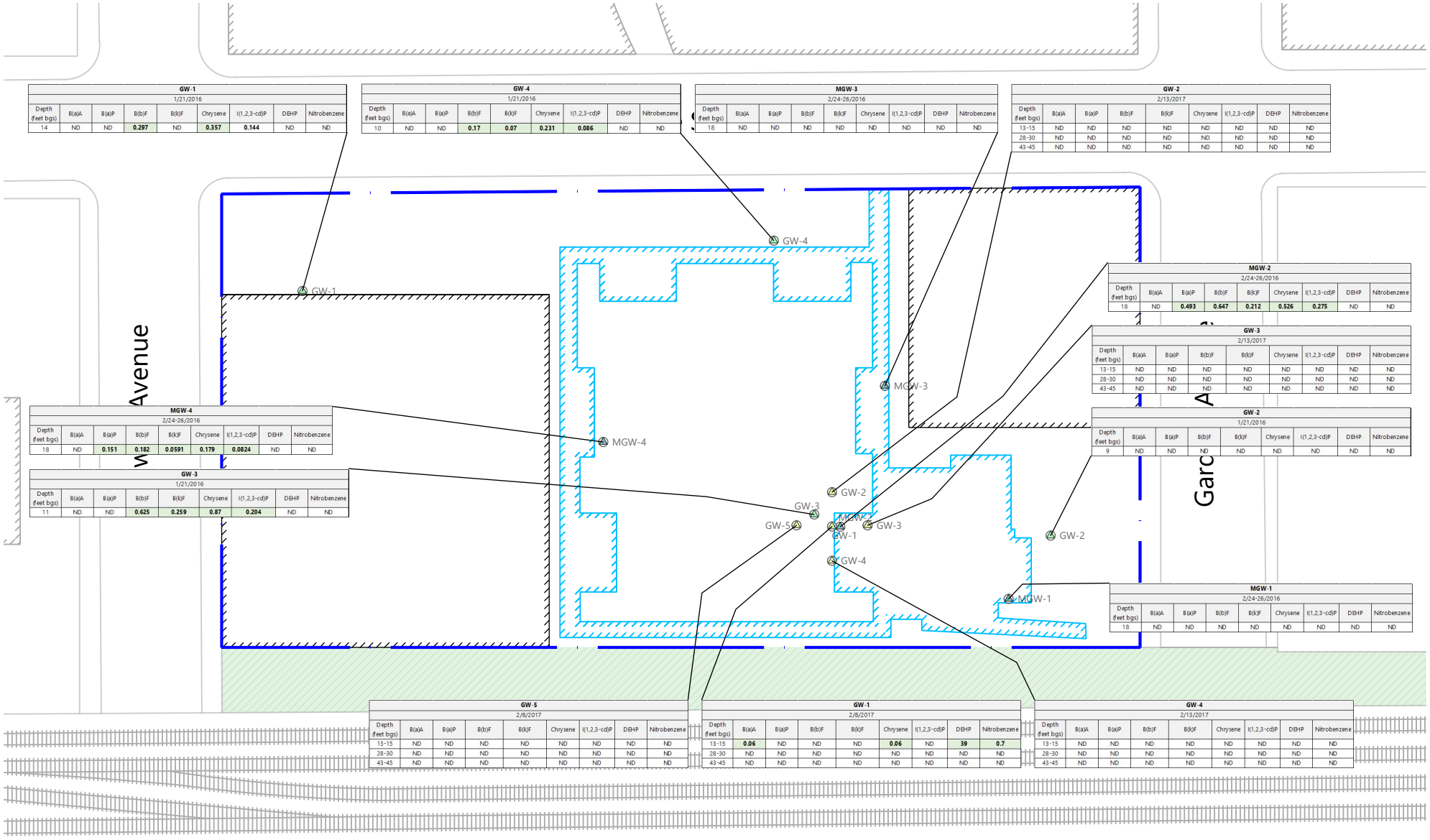
Approximate Scale

Title: VOCs Exceedances in Groundwater - Historical Samples

Figure:	Prepared By:	Date:	Project Number:
4.5	AS	February 2022	17244793-EN

Address:
140 Stewart Avenue and 111 Gardner Avenue - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



Legend and Notes:

- Site Boundary
- Site Building
- Scaffolding
- GW-1 — Former Groundwater Sample Loction (Phase II)
- GW-1 — Former Groundwater Sample Location (GCE SI)
- MGW-1 — Former Groundwater Sample Location (Supplemental Phase II)
- Concentration Exceeds NYSDEC AWQS

- SVOCs = Semi Volatile Organic Compounds
- B(a)P = Benzo(a)pyrene
- B(b)F = Benzo(b)fluoranthene
- B(k)F = Benzo(k)fluoranthene
- DEHP = Bis(2-ethylhexyl)phathalate
- I(1,2,3-cd)P = Indeno(1,2,3-cd)pyrene
- B(a)A = Benzo(a)anthracene
- ND = not detected above Method Detection Limit
- NYSDEC AWQS = New York Department of Conservation Ambient Water Quality Standards
- Concentrations presented in µg/l (microgram per liter)

N

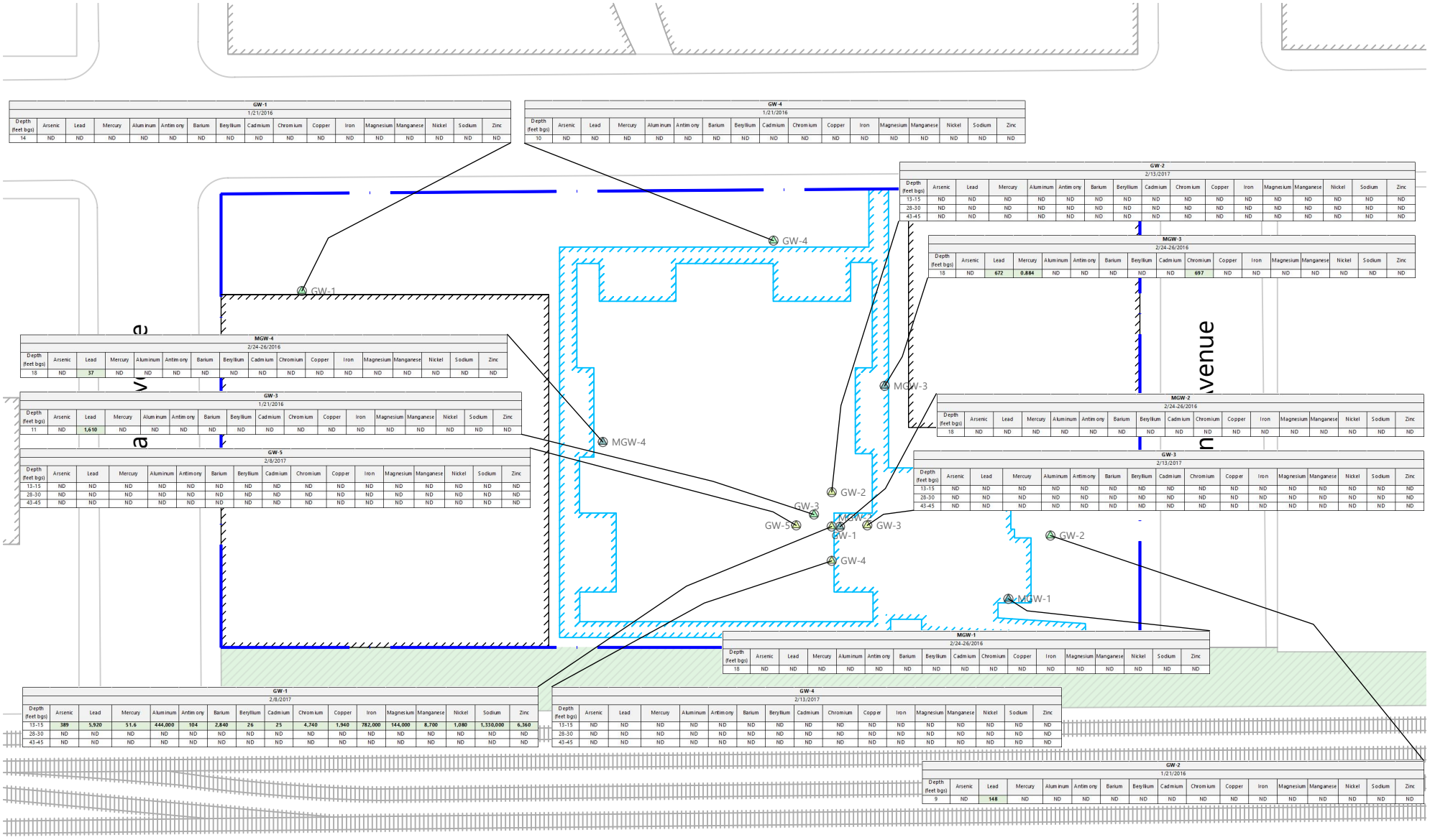
30' 0' 30' 60'

Approximate Scale

Title: SVOCs Exceedances in Groundwater - Historical Samples			
Figure: 4.6	Prepared By: AS	Date: February 2022	Project Number: 17244793-EN

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



GW-1 1/21/2016

Depth (feet bgs)	Arsenic	Lead	Mercury	Aluminum	Antimony	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Magnesium	Manganese	Nickel	Sodium	Zinc
14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

GW-4 1/21/2016

Depth (feet bgs)	Arsenic	Lead	Mercury	Aluminum	Antimony	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Magnesium	Manganese	Nickel	Sodium	Zinc
10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

GW-2 2/13/2017

Depth (feet bgs)	Arsenic	Lead	Mercury	Aluminum	Antimony	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Magnesium	Manganese	Nickel	Sodium	Zinc
13-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28-30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43-45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MGW-3 2/24-26/2016

Depth (feet bgs)	Arsenic	Lead	Mercury	Aluminum	Antimony	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Magnesium	Manganese	Nickel	Sodium	Zinc
18	ND	**672**	**0.884**	ND	ND	ND	ND	ND	**697**	ND	ND	ND	ND	ND	ND	ND

MGW-4 2/24-26/2016

Depth (feet bgs)	Arsenic	Lead	Mercury	Aluminum	Antimony	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Magnesium	Manganese	Nickel	Sodium	Zinc
18	ND	**37**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

GW-3 1/21/2016

Depth (feet bgs)	Arsenic	Lead	Mercury	Aluminum	Antimony	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Magnesium	Manganese	Nickel	Sodium	Zinc
11	ND	**1,610**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

GW-5 2/8/2017

Depth (feet bgs)	Arsenic	Lead	Mercury	Aluminum	Antimony	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Magnesium	Manganese	Nickel	Sodium	Zinc
13-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28-30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43-45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MGW-2 2/24-26/2016

Depth (feet bgs)	Arsenic	Lead	Mercury	Aluminum	Antimony	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Magnesium	Manganese	Nickel	Sodium	Zinc
18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

GW-3 2/13/2017

Depth (feet bgs)	Arsenic	Lead	Mercury	Aluminum	Antimony	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Magnesium	Manganese	Nickel	Sodium	Zinc
13-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28-30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43-45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MGW-1 2/24-26/2016

Depth (feet bgs)	Arsenic	Lead	Mercury	Aluminum	Antimony	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Magnesium	Manganese	Nickel	Sodium	Zinc
18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

GW-1 2/8/2017

Depth (feet bgs)	Arsenic	Lead	Mercury	Aluminum	Antimony	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Magnesium	Manganese	Nickel	Sodium	Zinc
13-15	**389**	**5,920**	**51.6**	**444,000**	**104**	**2,840**	**26**	**25**	**4,740**	**1,940**	**782,000**	**144,000**	**8,700**	**1,080**	**1,330,000**	**6,360**
28-30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43-45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

GW-4 2/13/2017

Depth (feet bgs)	Arsenic	Lead	Mercury	Aluminum	Antimony	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Magnesium	Manganese	Nickel	Sodium	Zinc
13-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28-30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43-45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

GW-2 1/21/2016

Depth (feet bgs)	Arsenic	Lead	Mercury	Aluminum	Antimony	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Magnesium	Manganese	Nickel	Sodium	Zinc
9	ND	**148**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Legend and Notes:

- Site Boundary
- Site Building
- Scaffolding
- GW-1 — Former Groundwater Sample Loction (Phase II)
- GW-1 — Former Groundwater Sample Location (GCE SI)
- MGW-1 — Former Groundwater Sample Location (Supplemental Phase II)
- Concentration Exceeds NYSDEC AWQS

- ND = not detected above Method Detection Limit
- NYSDEC AWQS = New York Department of Conservation Ambient Water Quality Standards
- Concentrations presented in µg/l (microgram per liter)

N

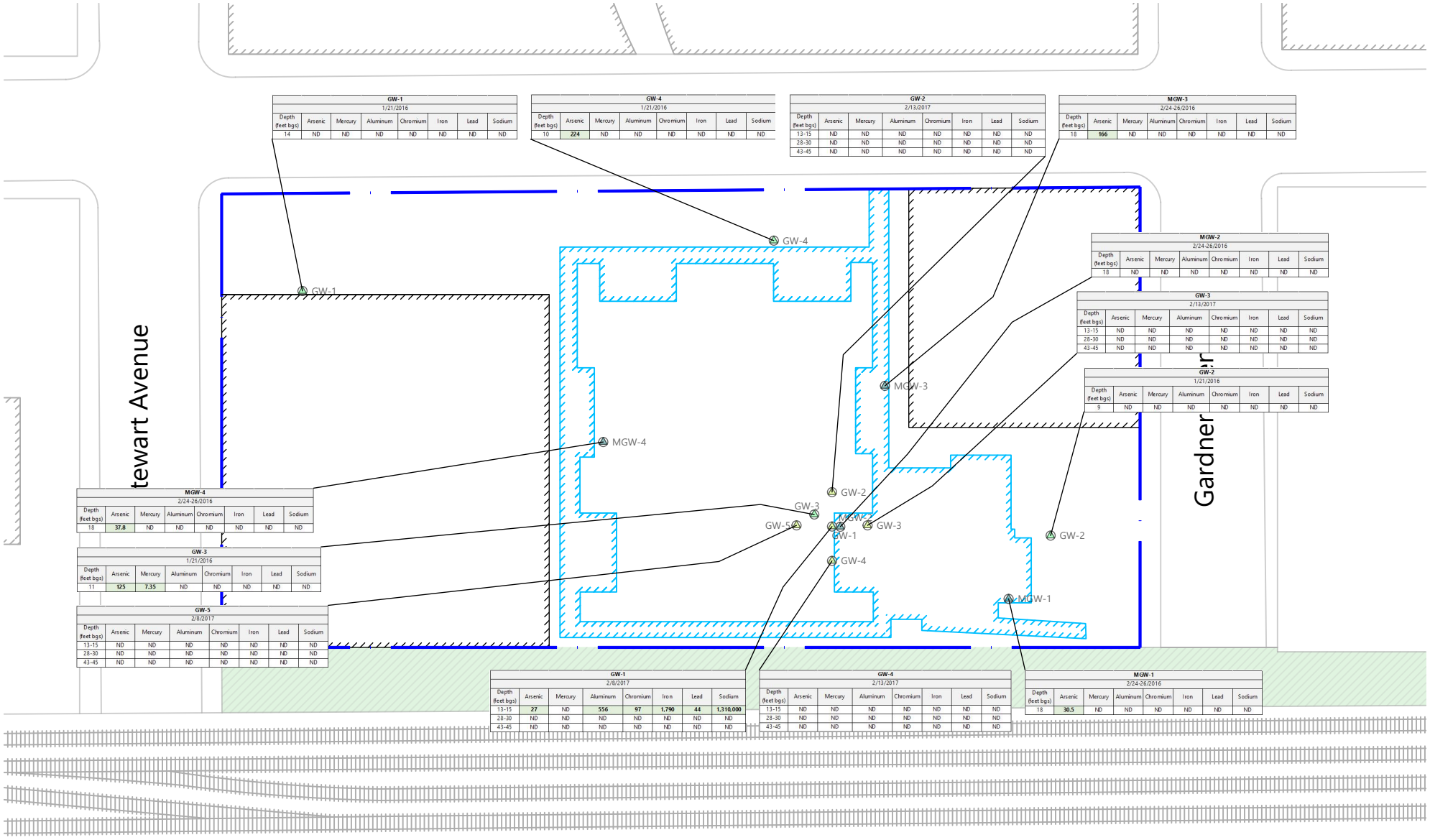
30' 0' 30' 60'

Approximate Scale

Title: **Metals Exceedances in Groundwater - Historical Samples**			
Figure: **4.7**	Prepared By: **AS**	Date: **February 2022**	Project Number: **17244793-EN**

Address:
140 Stewart Avenue and 111 Gardner Avenue - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



Legend and Notes:

- Site Boundary
- Site Building
- Scaffolding
- GW-1 — Former Groundwater Sample Loction (Phase II)
- GW-1 — Former Groundwater Sample Location (GCE SI)
- MGW-1 — Former Groundwater Sample Location (Supplemental Phase II)
- Concentration Exceeds NYSDEC AWQS

- ND = not detected above Method Detection Limit
- NYSDEC AWQS = New York Department of Conservation Ambient Water Quality Standards
- Concentrations presented in µg/l (microgram per liter)

N

30' 0' 30' 60'

Approximate Scale

Title: **Metals Dissolved Exceedances in Groundwater - Historical Samples**			
Figure: **4.8**	Prepared By: **AS**	Date: **February 2022**	Project Number: **17244793-EN**
Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258 **Brooklyn, New York 11237**			

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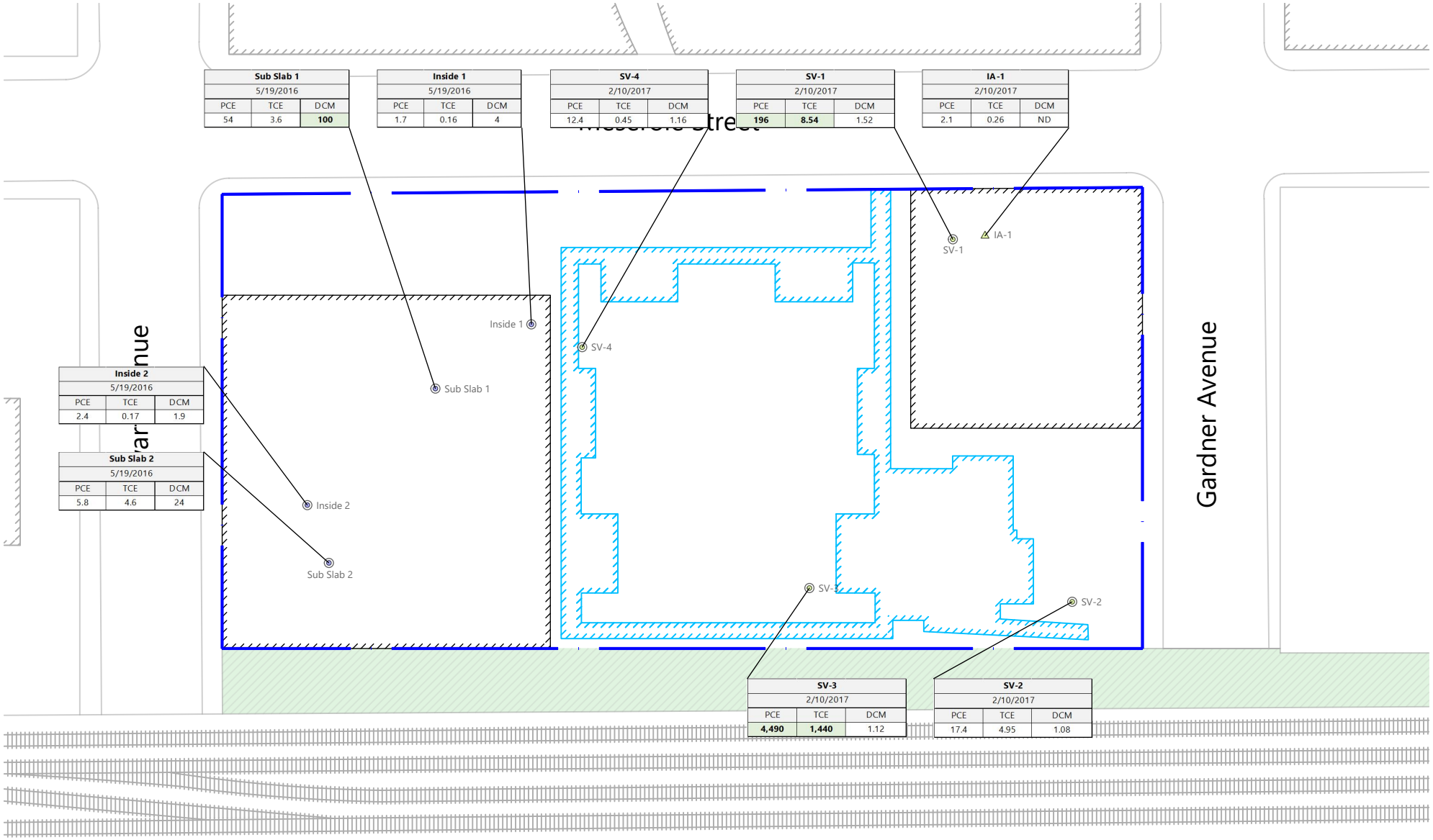


Legend and Notes:

- Site Boundary
- Site Building
- Scaffolding
- SV-1 — Former Soil Vapor Sample Location (GCE SI)
- Inside 1 — Fromer Soil Vapor/Air Sampling Location (Previous Investigation)
- IA-1 — Indoor Air Sample Location (GCE SI)
- Concentration Exceeds NYSDOH AGV

- VOCs = Volatile Organic Compounds
- PCE = Tetrachloroethene
- TCE = Trichloroethene
- DCM = Methylene Chloride
- NYSDOH AGV = New York Department of Health Air Guideline Value
- Concentrations presented in µg/m³ (microgram per cubic meter)

N

30' 0' 30' 60'

Approximate Scale

Title: **VOCs Exceedances in Soil Vapor/Air - Historical Samples**			
Figure: **4.9**	Prepared By: **AS**	Date: **February 2022**	Project Number: **17244793-EN**
Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258 **Brooklyn, New York 11237**			

PSG Engineering and Geology, D.P.C.

Legend

- AREA OF CONCERN (AOC)
- 140 STEWART MIP
- 111 GARDNER MIP
- EXTERIOR MIP
- MAXIMUM XSD PLUME (>100 mV)
- MAXIMUM PID PLUME (>100 mV)
- MAXIMUM FID PLUME (>500 mV)
- BUILDING
- SITE BOUNDARY

SCALE
1 in = 30 ft

0 15 30 60
Feet

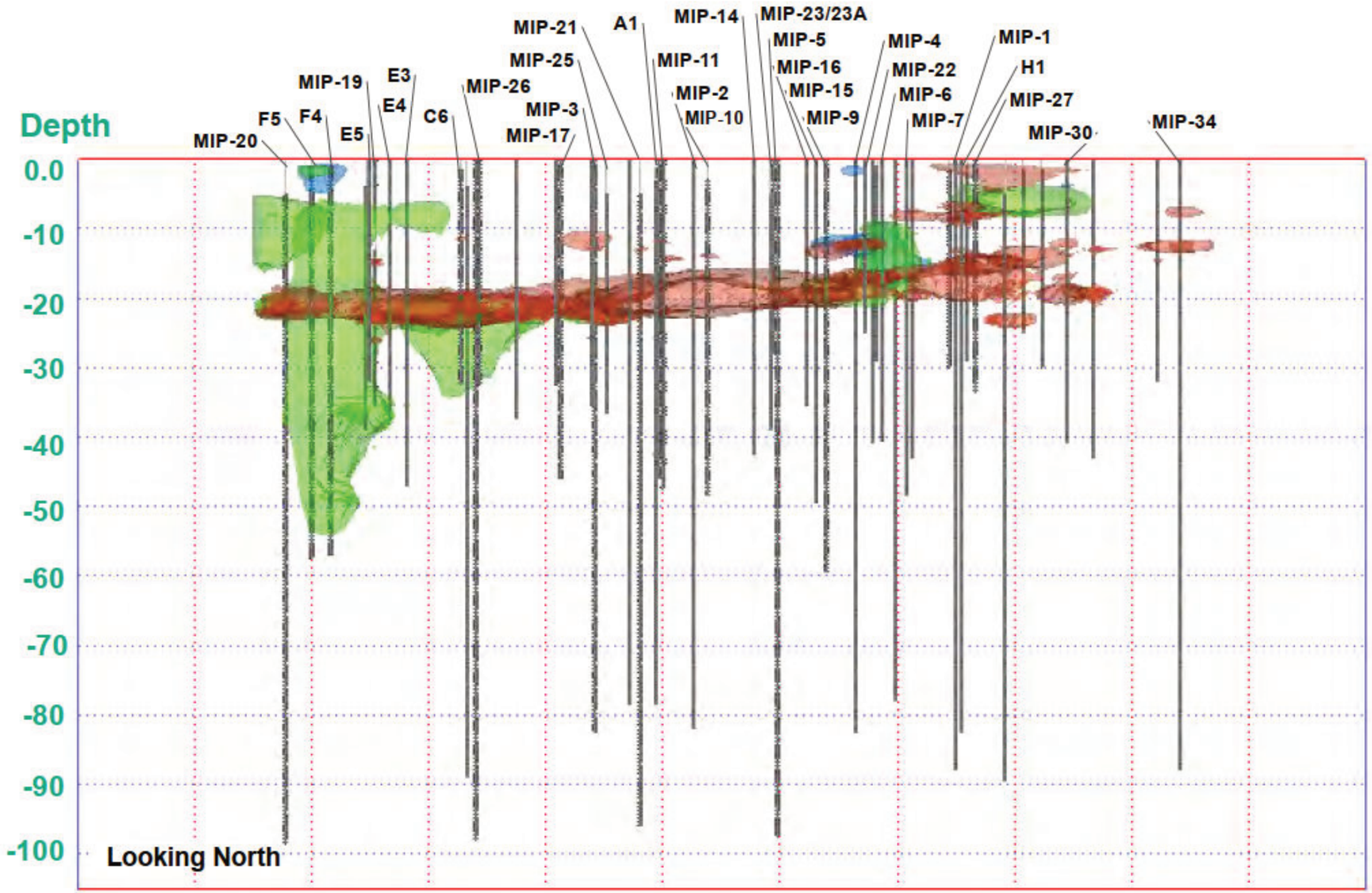
Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet
Projection: Transverse Mercator
False Easting: 492,125.0000
False Northing: 0.0000
Central Meridian: -74.5000
Scale Factor: 0.9999
Latitude Of Origin: 38.8333
Units: Foot US

Title: **MIP Boring Location Map**

Figure:	Drawn By:	Date:	Project Number:
5.1	**ALH**	**March 2023**	**17244793-EN**

Address:
140 Stewart Avenue and 111 Gardner Avenue - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



MIP borings and sample intervals (gray)
Maximum XSD (blue) and PID (green) impact >100 mV with FID (red) imapct >500 mV

Legend

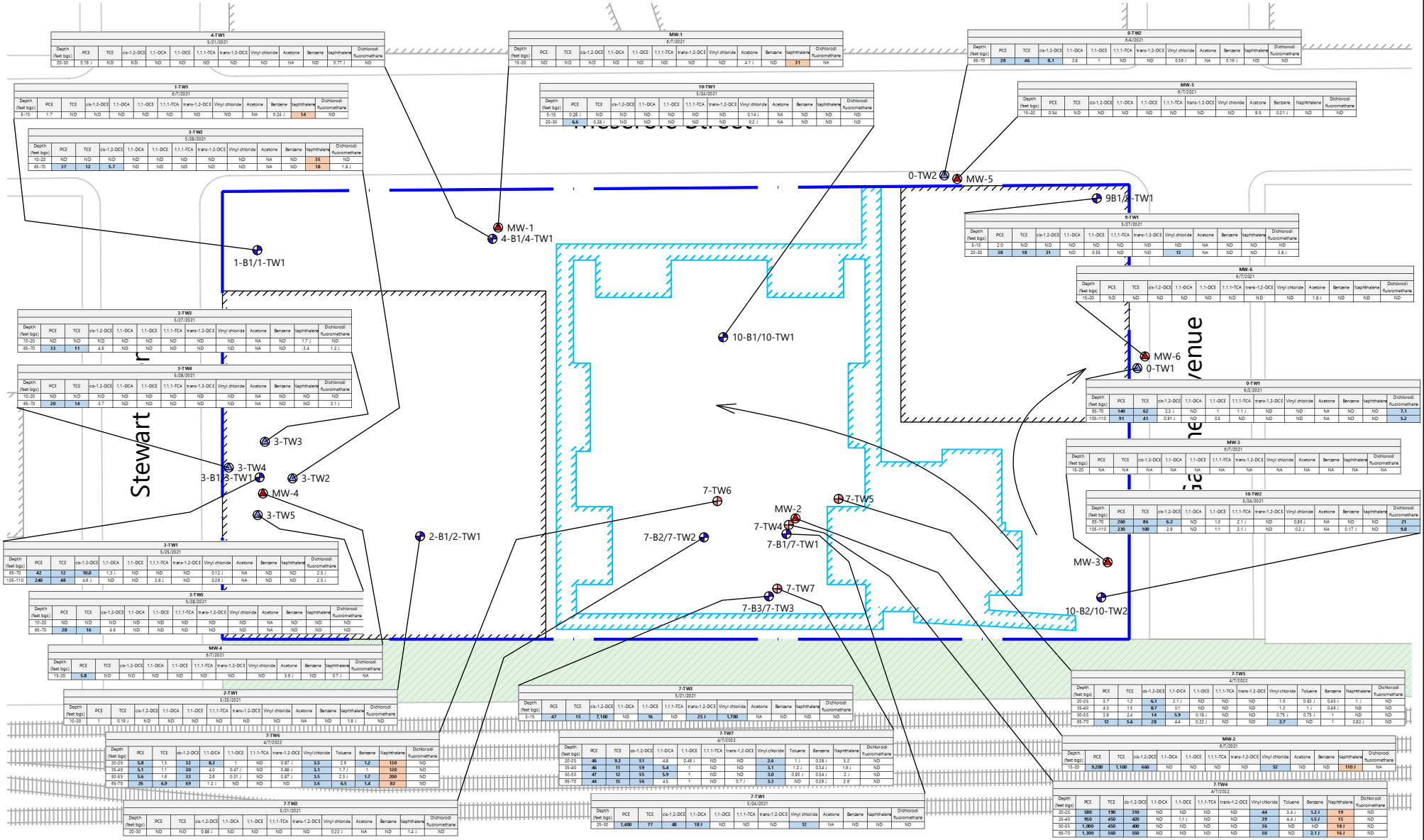
- MAXIMUM XSD PLUME (>100 mV)
- MAXIMUM PID PLUME (>100 mV)
- MAXIMUM FID PLUME (>500 mV)

Title: **AOC Cross-Section**

Figure:	Drawn By:	Date:	Project Number:
5.2	**ALH**	**March 2023**	**17244793-EN**

Address:
140 Stewart Avenue and 111 Gardner Avenue - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



Legend and Notes:

- Site Boundary
- Site Building
- MW-1 — Monitoring Well Location
- 0-TW1 — Temporary Well Location
- 9-B1 — Soil Boring/Temporary Well Loction
- Horizontal Direction of Groundwater Flow
- Concentration Exceeds Most Stringent Criteria
- Concentration Exceeds Guidance Value
- 7-TW4 — Proposed Boring Location

- VOCs = Volatile Organic Compounds
- PCE = Tetrachloroethene
- TCE = Trichloroethene
- DCE = Dichloroethene
- TCA = Trichloroethane
- ND = not detected above Method Detection Limit
- NA = not analyzed
- NS = not sampled
- J = estimated concentration
- Concentrations presented in µg/L (microgram per liter)

N

30' 0' 30' 60'

Approximate Scale

Title: **VOCs Exceedances in Groundwater**

Figure:	Prepared By:	Date:	Project Number:
6.1	AS	June 2022	17244793-EN

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

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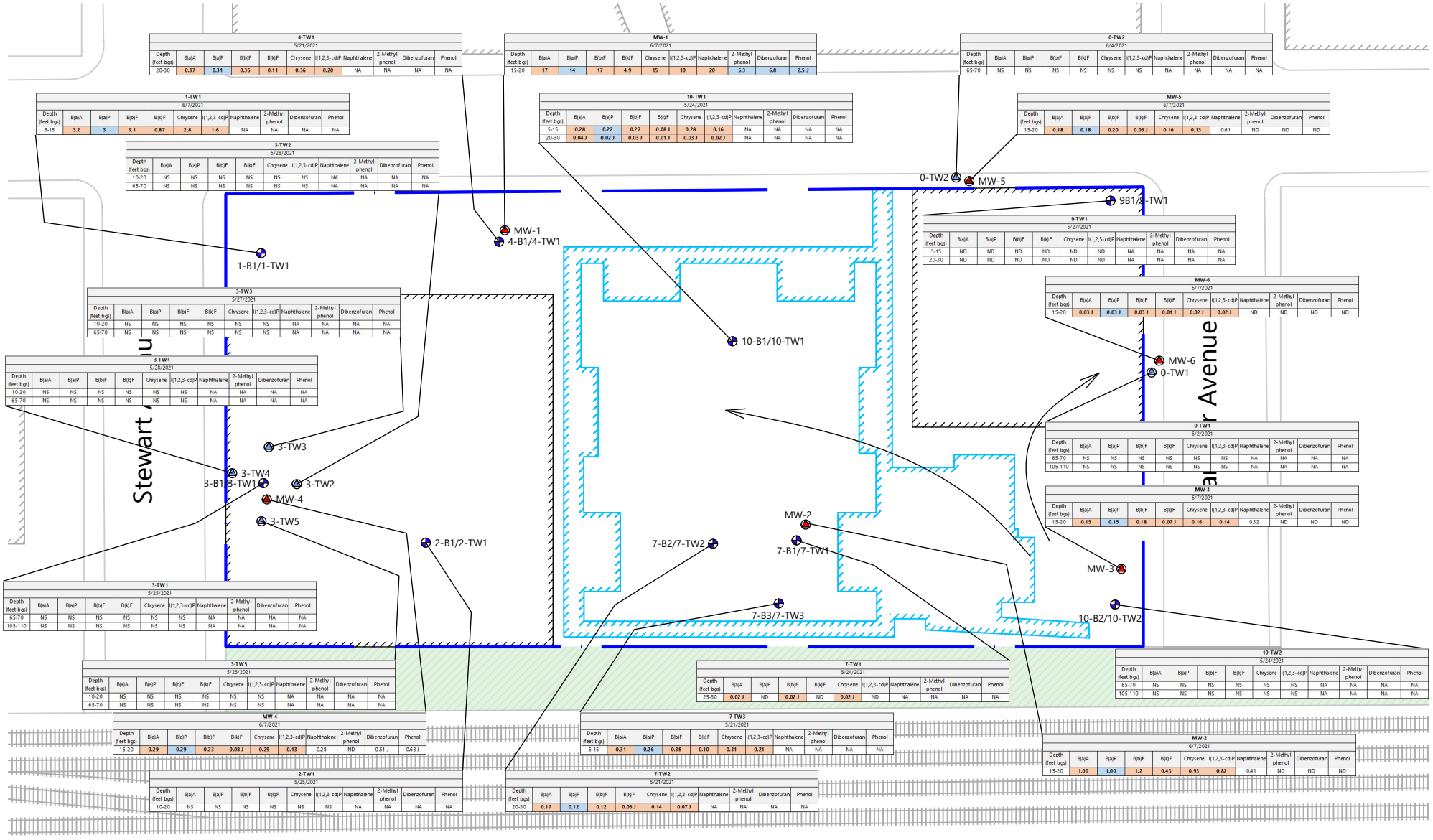

Legend and Notes:

- Site Boundary
- Site Building
- MW-1 — Monitoring Well Location
- 0-TW1 — Temporary Well Location
- 9-B1 — Soil Boring/Temporary Well Loction
- Horizontal Direction of Groundwater Flow
- Concentration Exceeds Most Stringent Criteria
- Concentration Exceeds Guidance Value

- SVOCs = Semi Volatile Organic Compounds
- B(a)P = Benzo(a)pyrene
- B(b)F = Benzo(b)fluoranthene
- B(k)F = Benzo(k)fluoranthene
- I(1,2,3-cd)P = Indeno(1,2,3-cd)pyrene
- B(a)A = Benzo(a)anthracene
- ND = not detected above Method Detection Limit
- NA = not analyzed
- NS = not sampled
- J = estimated concentration
- Concentrations presented in µg/L (microgram per liter)

N

30' 0' 30' 60'

Approximate Scale

Title: **SVOCs Exceedance in Groundwater**

Figure:	Prepared By:	Date:	Project Number:
6.2	AS	February 2022	17244793-EN

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

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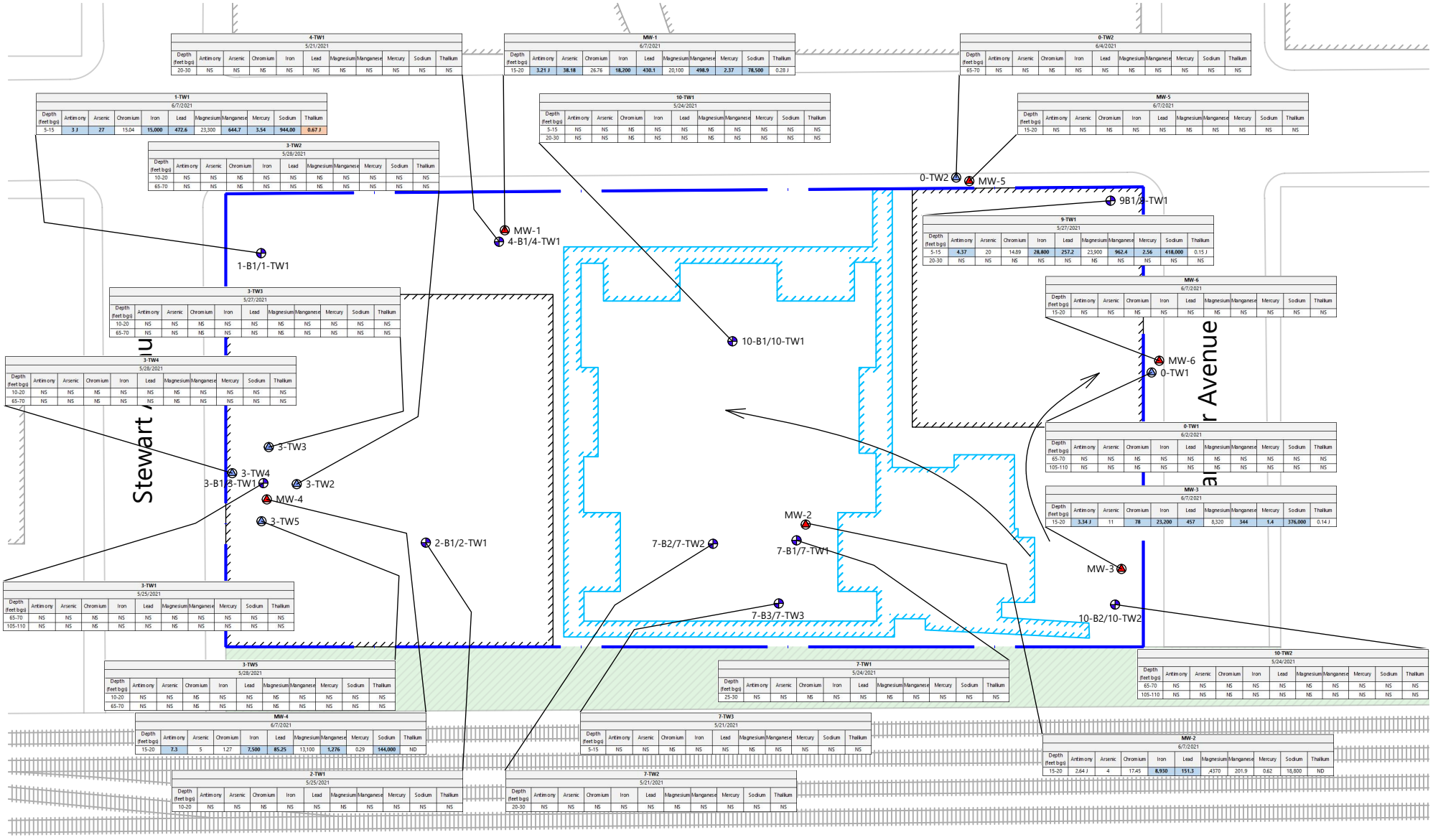

4-TW1 5/21/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

MW-1 6/7/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
15-20	**3.21 J**	**38.18**	26.76	**18,200**	**430.1**	20,100	**498.9**	**2.37**	**78,500**	0.28 J

0-TW2 6/4/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

1-TW1 6/7/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
5-15	3 J	27	15.04	**15,000**	**472.6**	23,300	**644.7**	**3.54**	**944.00**	0.67 J

10-TW1 5/24/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

MW-5 6/7/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
15-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

3-TW2 5/28/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

9-TW1 5/27/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
5-15	**4.37**	20	14.89	**28,800**	**257.2**	23,900	**962.4**	**2.56**	**418,000**	0.15 J
20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

3-TW3 5/27/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

MW-6 6/7/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
15-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

3-TW4 5/28/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

0-TW1 6/2/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

MW-3 6/7/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
15-20	**3.34 J**	11	**78**	**23,200**	**457**	8,320	**344**	**1.4**	**376,000**	0.14 J

3-TW1 5/25/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

7-TW1 5/24/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
25-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

10-TW2 5/24/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

3-TW5 5/28/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

MW-4 6/7/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
15-20	**7.3**	5	1.27	**7,500**	**85.25**	13,100	**1,276**	0.29	**144,000**	ND

7-TW3 5/21/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

MW-2 6/7/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
15-20	2.64 J	4	17.45	**8,930**	**151.3**	4370	201.9	0.62	18,800	ND

2-TW1 5/25/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

7-TW2 5/21/2021

Depth (feet bgs)	Antimony	Arsenic	Chromium	Iron	Lead	Magnesium	Manganese	Mercury	Sodium	Thallium
20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend and Notes:

- Site Boundary
- Site Building
- MW-1 Monitoring Well Location
- 0-TW1 Temporary Well Location
- 9-B1 Soil Boring/Temporary Well Loction
- Horizontal Direction of Groundwater Flow
- Concentration Exceeds Most Stringent Criteria
- Concentration Exceeds Guidance Value

- ND = not detected above Method Detection Limit
- NA = not analyzed
- NS = not sampled
- J = estimated concentration
- Concentrations presented in µg/L (microgram per liter)

N

30' 0' 30' 60'

Approximate Scale

Title: **Metals Exceedances in Groundwater**

Figure:	Prepared By:	Date:	Project Number:
6.3	AS	February 2022	17244793-EN

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

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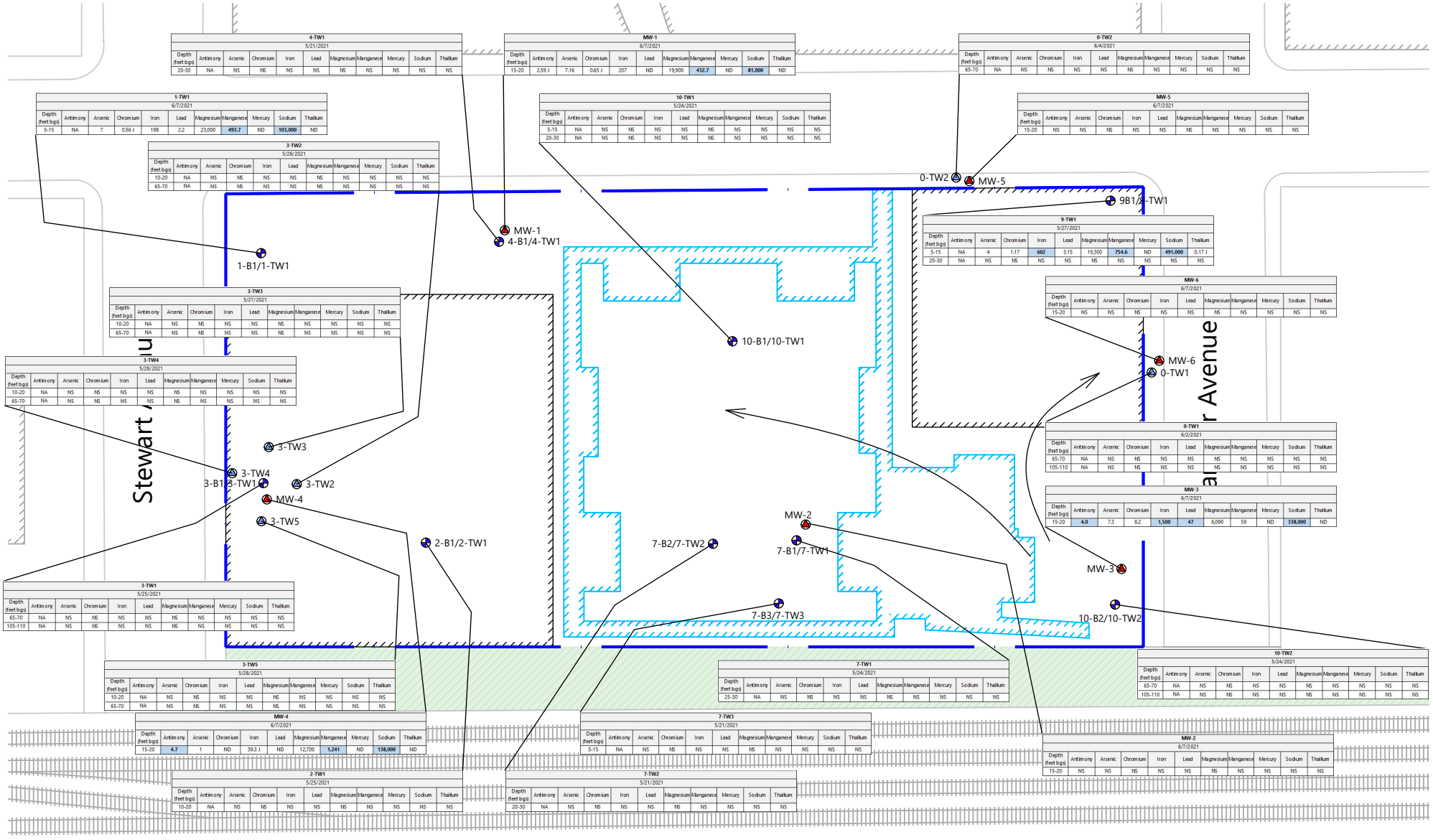


Legend and Notes:

- Site Boundary
- Site Building
- MW-1 — Monitoring Well Location
- 0-TW1 — Temporary Well Location
- 9-B1 — Soil Boring/Temporary Well Loction
- Horizontal Direction of Groundwater Flow
- Concentration Exceeds Most Stringent Criteria
- Concentration Exceeds Guidance Value

- ND = not detected above Method Detection Limit
- NA = not analyzed
- NS = not sampled
- J = estimated concentration
- Concentrations presented in µg/L (microgram per liter)

N

30' 0' 30' 60'

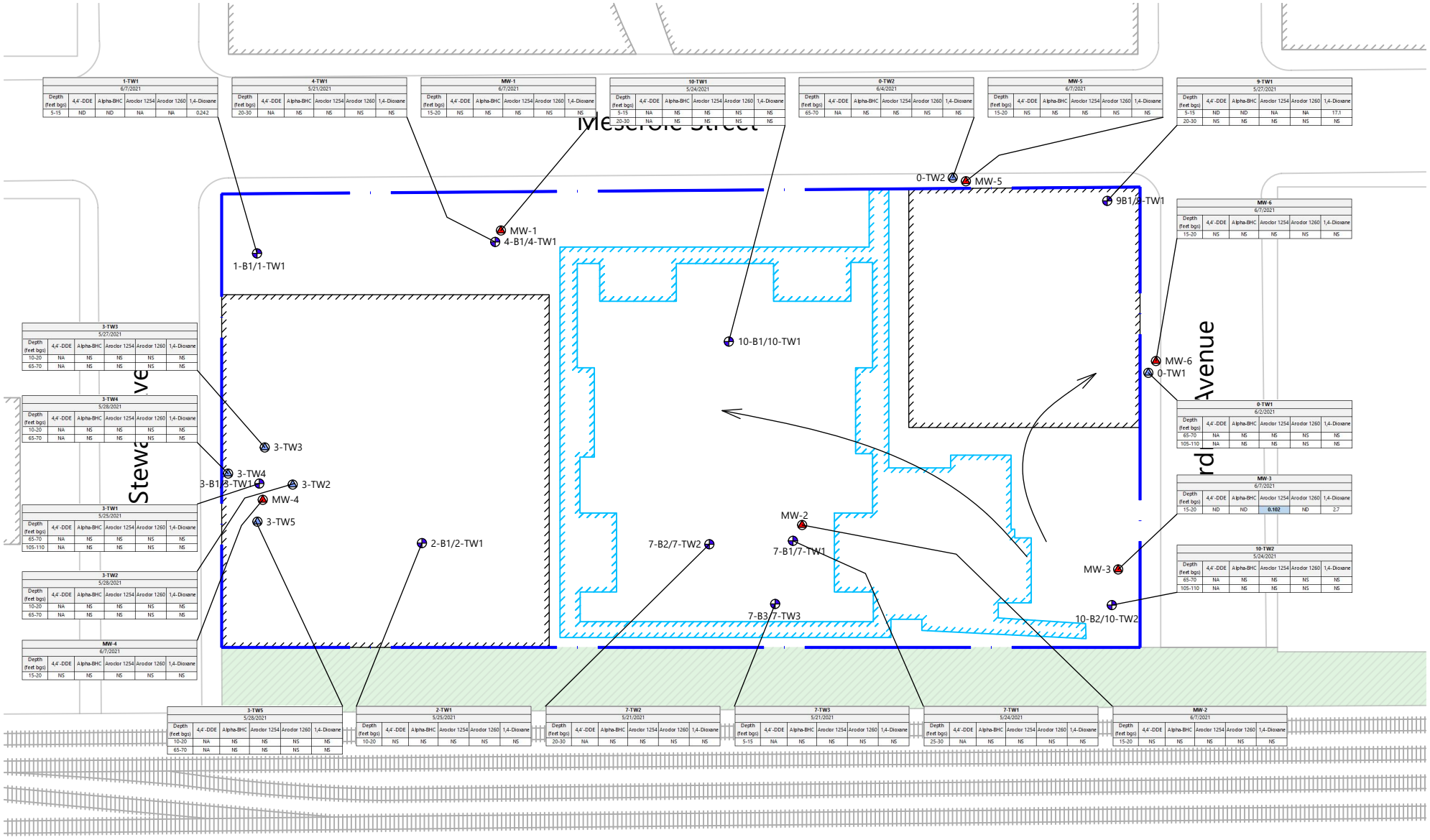
Approximate Scale

Title: **Metals (Dissolved) Exceedances in Groundwater**

Figure:	Prepared By:	Date:	Project Number:
6.4	AS	February 2022	17244793-EN

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



Legend and Notes:

- Site Boundary
- Site Building
- MW-1 Monitoring Well Location
- 0-TW1 Temporary Well Location
- 9-B1 Soil Boring/Temporary Well Loction
- Horizontal Direction of Groundwater Flow
- Concentration Exceeds Most Stringent Criteria
- Concentration Exceeds Guidance Value

- PCB = Polychlorinated Biphenyl
- ND = not detected above Method Detection Limit
- NA = not analyzed
- NS = not sampled
- J = estimated concentration
- Concentrations presented in µg/L (microgram per liter)

N

30' 0' 30' 60'

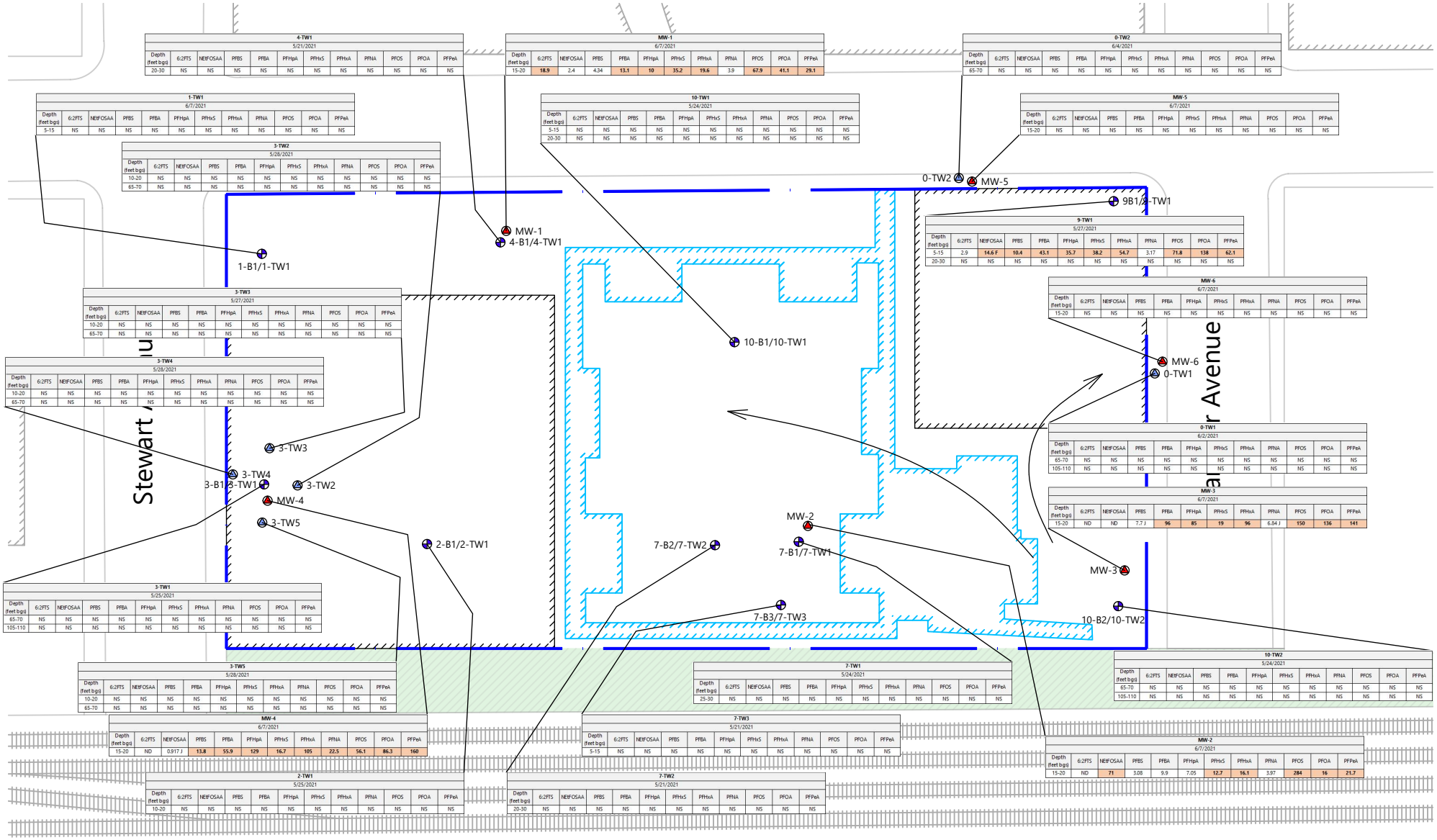
Approximate Scale

Title: **Pesticides and PCBs Exceedances in Groundwater**

Figure:	Prepared By:	Date:	Project Number:
6.5	AS	February 2022	17244793-EN

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



4-TW1
5/21/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

MW-1
6/7/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
15-20	**18.9**	2.4	4.34	**13.1**	**10**	**35.2**	**19.6**	3.9	**67.9**	**41.1**	**29.1**

0-TW2
6/4/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

1-TW1
6/7/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

10-TW1
5/24/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

MW-5
6/7/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
15-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

3-TW2
5/28/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

9-TW1
5/27/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
5-15	2.9	**14.6 F**	**10.4**	**43.1**	**35.7**	**38.2**	**54.7**	3.17	**71.8**	**138**	**62.1**
20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

3-TW3
5/27/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

MW-6
6/7/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
15-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

3-TW4
5/28/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

0-TW1
6/2/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

MW-3
6/7/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
15-20	ND	ND	7.7 J	**96**	**85**	**19**	**96**	6.84 J	**150**	**136**	**141**

3-TW1
5/25/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

7-TW1
5/24/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
25-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

10-TW2
5/24/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

3-TW5
5/28/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

MW-4
6/7/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
15-20	ND	0.917 J	**13.8**	**55.9**	**129**	**16.7**	**105**	**22.5**	**56.1**	**86.3**	**160**

7-TW3
5/21/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

MW-2
6/7/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
15-20	ND	**71**	3.08	9.9	7.05	**12.7**	**16.1**	3.97	**284**	**16**	**21.7**

2-TW1
5/25/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
10-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

7-TW2
5/21/2021

Depth (feet bgs)	6:2FTS	NEtFOSAA	PFBS	PFBA	PFHpA	PFHxS	PFHxA	PFNA	PFOS	PFOA	PFPeA
20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend and Notes:

- Site Boundary
- Site Building
- MW-1 — Monitoring Well Location
- 0-TW1 — Temporary Well Location
- 9-B1 — Soil Boring/Temporary Well Loction
- Horizontal Direction of Groundwater Flow
- Concentration Exceeds Most Stringent Criteria
- Concentration Exceeds Guidance Value

- 6:2FTS = 1H,1H,2H,2H-Perfluorooctanesulfonic Acid
- NEtFOSAA = N-Ethyl Perfluorooctanesulfonamidoacetic Acid
- PFBS = Perfluorobutanesulfonic Acid
- PFBA = Perfluorobutanoic Acid
- PFHpA = Perfluoroheptanoic Acid
- PFHxS = Perfluorohexanesulfonic Acid
- PFHxA = Perfluorohexanoic Acid
- PFNA = Perfluorononanoic Acid
- PFOS = Perfluorooctanesulfonic Acid
- PFOA = Perfluorooctanoic Acid
- PFPeA = Perfluoropentanoic Acid
- ND = not detected above Method Detection Limit
- NA = not analyzed
- NS = not sampled
- J = estimated concentration
- Concentrations presented in µg/L (microgram per liter)

N

30' 0' 30' 60'

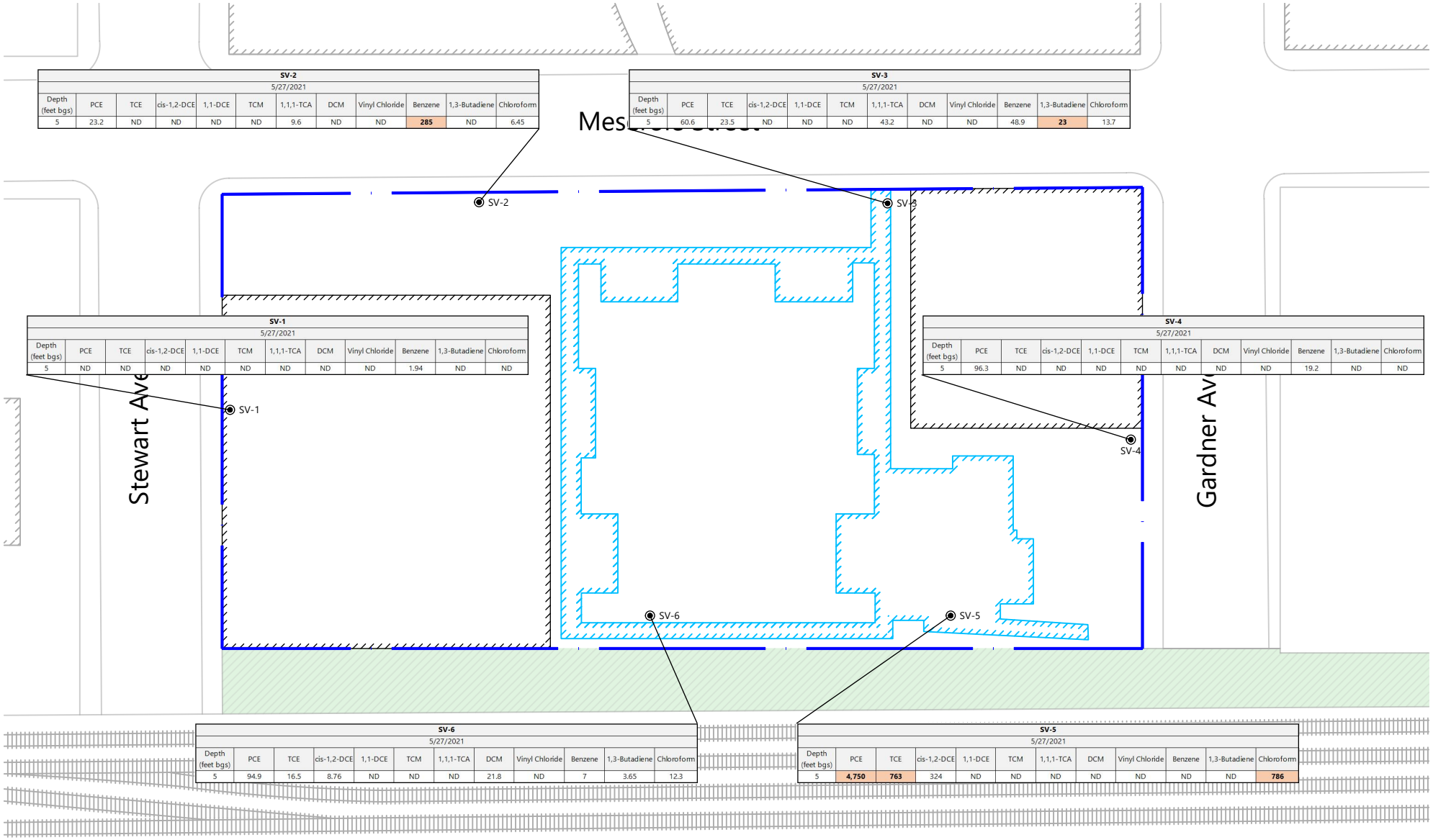
Approximate Scale

Title: **PFAS Exceedances in Groundwater**

Figure:	Prepared By:	Date:	Project Number:
6.6	AS	February 2022	17244793-EN

Address:
140 Stewart Avenue and 111 Gardner Avenue - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



SV-2

5/27/2021											
Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	1,1-DCE	TCM	1,1,1-TCA	DCM	Vinyl Chloride	Benzene	1,3-Butadiene	Chloroform
5	23.2	ND	ND	ND	ND	9.6	ND	ND	**285**	ND	6.45

SV-3

5/27/2021											
Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	1,1-DCE	TCM	1,1,1-TCA	DCM	Vinyl Chloride	Benzene	1,3-Butadiene	Chloroform
5	60.6	23.5	ND	ND	ND	43.2	ND	ND	48.9	**23**	13.7

SV-1

5/27/2021											
Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	1,1-DCE	TCM	1,1,1-TCA	DCM	Vinyl Chloride	Benzene	1,3-Butadiene	Chloroform
5	ND	ND	ND	ND	ND	ND	ND	ND	1.94	ND	ND

SV-4

5/27/2021											
Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	1,1-DCE	TCM	1,1,1-TCA	DCM	Vinyl Chloride	Benzene	1,3-Butadiene	Chloroform
5	96.3	ND	ND	ND	ND	ND	ND	ND	19.2	ND	ND

SV-6

5/27/2021											
Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	1,1-DCE	TCM	1,1,1-TCA	DCM	Vinyl Chloride	Benzene	1,3-Butadiene	Chloroform
5	94.9	16.5	8.76	ND	ND	ND	21.8	ND	7	3.65	12.3

SV-5

5/27/2021											
Depth (feet bgs)	PCE	TCE	cis-1,2-DCE	1,1-DCE	TCM	1,1,1-TCA	DCM	Vinyl Chloride	Benzene	1,3-Butadiene	Chloroform
5	**4,750**	**763**	324	ND	ND	ND	ND	ND	ND	ND	**786**

Legend and Notes:

- Site Boundary
- Site Building
- Scaffolding
- SV-1 Soil Vapor Sample Location
- Concentration Exceeds NY-CSCO

- VOCs = Volatile Organic Compounds
- PCE = Tetrachloroethene
- TCE = Trichloroethene
- DCE = Dichloroethene
- TCM = Carbon Tetrachloride
- TCA = Trichloroethane
- DCM = methylene Chloride
- ND = not detected above Method Detection Limit
- NA = not analyzed
- J = estimated concentration
- Concentrations presented in µg/m³ (microgram per cubic meter)

N

30' 0' 30' 60'

Approximate Scale

Title: VOCs Exceedances in Soil Vapor

Figure:	Prepared By:	Date:	Project Number:
6.7	AS	February 2022	17244793-EN

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

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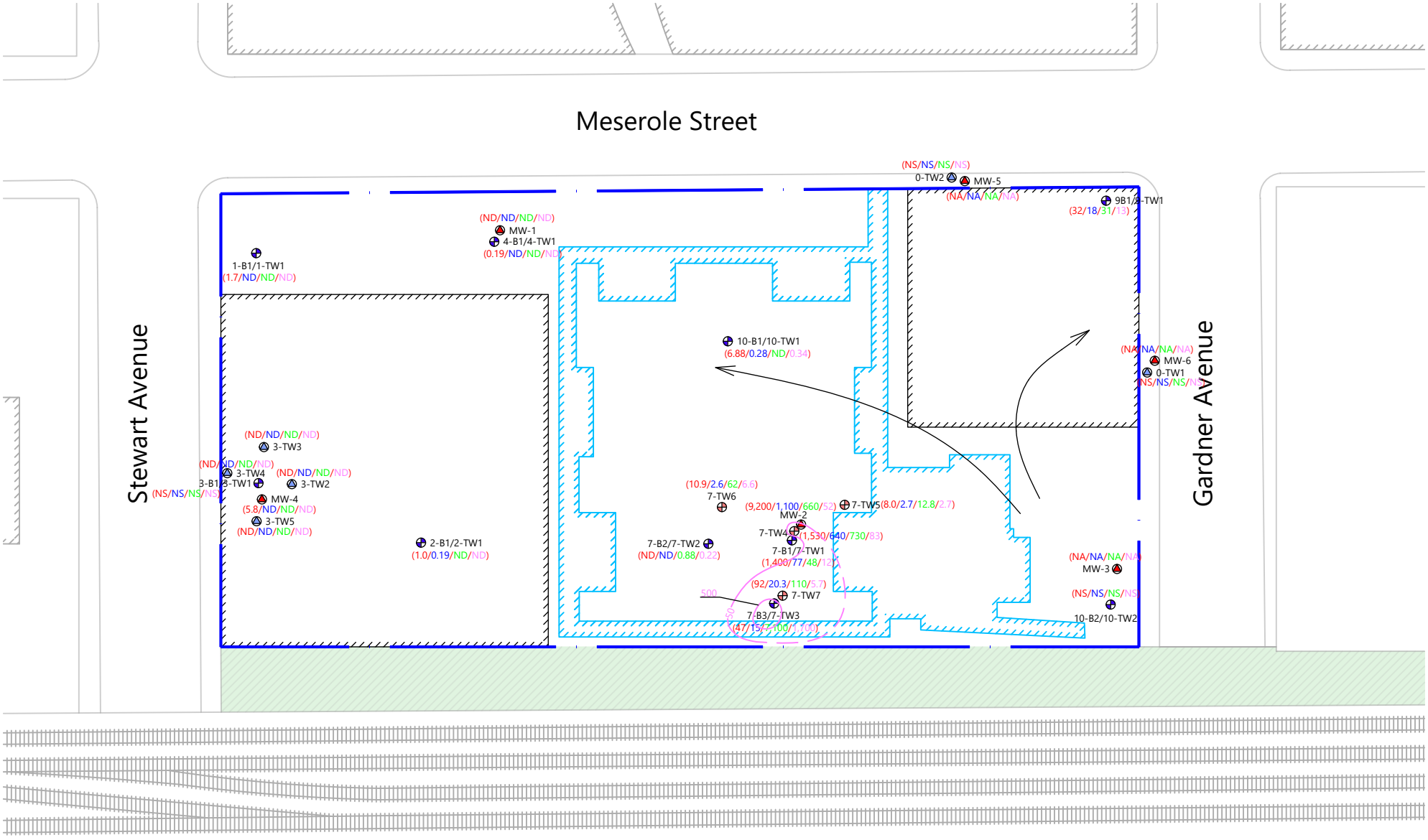

Legend and Notes:

- Site Boundary
- Site Building
- Scaffolding
- MW-1 Monitoring Well Location
- 0-TW1 Temporary Well Location
- 9-B1 Soil Boring/Temporary Well Loction
- 7-TW4 Proposed Boring Location
- Horizontal Direction of Groundwater Flow

- PCE Isoconcentrations
- TCE Isoconcentrations
- cis-1,2-DCE Isoconcentrations
- Vinyl Chloride Isoconcentrations

- PCE = Tetrachloroethene
- TCE = Trichloroethene
- DCE = Dichloroethene
- Isoconcentrations dashed where inferred, queried where uncertain
- ND = not detected above Method Detection Limit
- NS = not sampled
- J = estimated concentration
- Concentrations presented in µg/L (microgram per liter)

N

30' 0' 30' 60'

Approximate Scale

Title: **PCE, TCE, cis-1,2-DCE and Vinyl Chloride Isoconcentrations in Shallow Groundwater**			
Figure: **7.1**	Prepared By: **AS**	Date: **August 2022**	Project Number: **17244793-EN**
Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258 **Brooklyn, New York 11237**			

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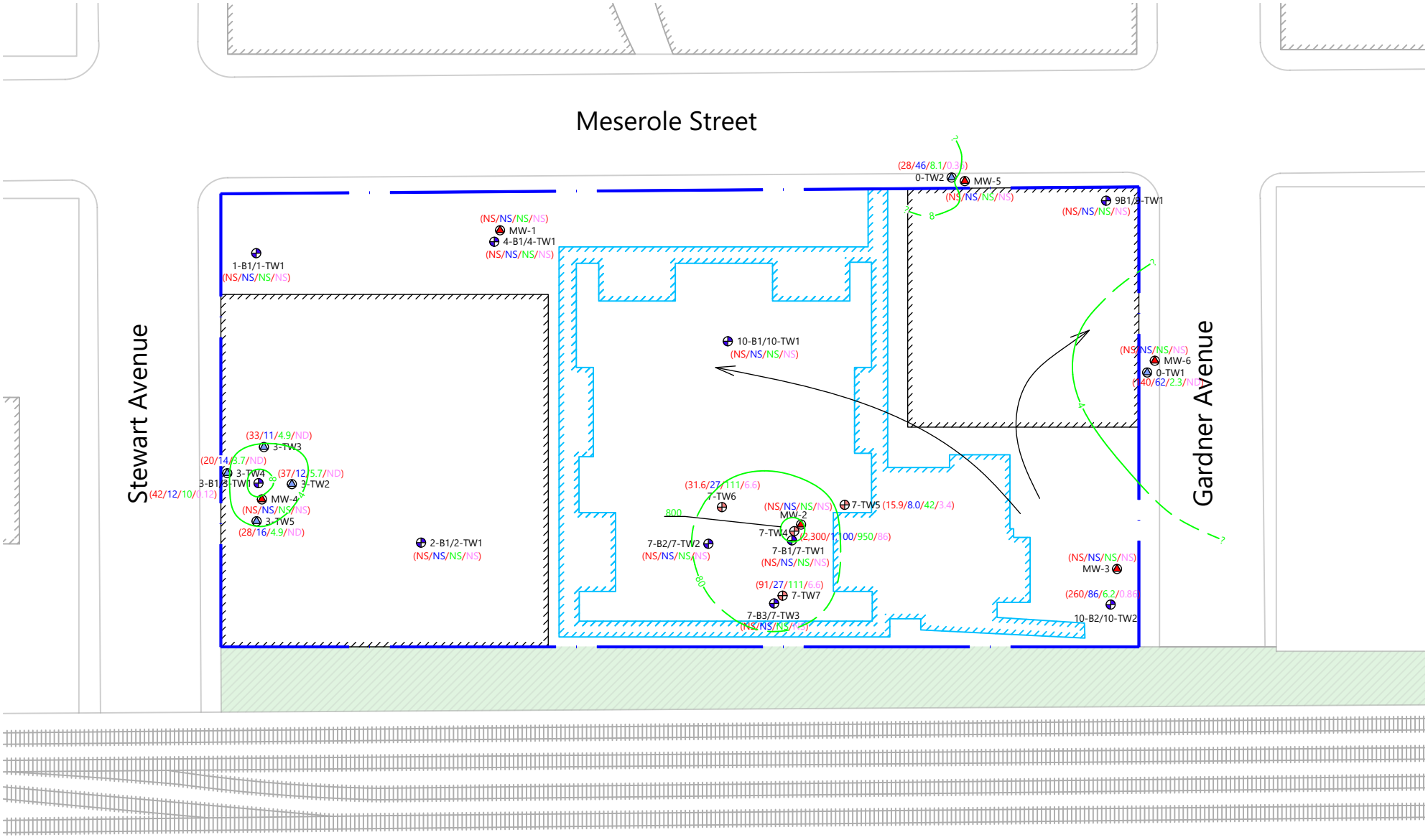

Legend and Notes:

- Site Boundary
- Site Building
- Scaffolding
- MW-1 Monitoring Well Location
- 0-TW1 Temporary Well Location
- 9-B1 Soil Boring/Temporary Well Loction
- 7-TW4 Proposed Boring Location
- Horizontal Direction of Groundwater Flow

- PCE Isoconcentrations
- TCE Isoconcentrations
- cis-1,2-DCE Isoconcentrations
- Vinyl Chloride Isoconcentrations

- PCE = Tetrachloroethene
- TCE = Trichloroethene
- DCE = Dichloroethene
- Isoconcentrations dashed where inferred, queried where uncertain
- ND = not detected above Method Detection Limit
- NS = not sampled
- J = estimated concentration
- Concentrations presented in µg/L (microgram per liter)

N

30' 0' 30' 60'

Approximate Scale

Title: **PCE, TCE, cis-1,2-DCE and Vinyl Chloride Isoconcentrations in Intermediate Groundwater**			
Figure: **7.2**	Prepared By: **AS**	Date: **August 2022**	Project Number: **17244793-EN**
Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258 **Brooklyn, New York 11237**			

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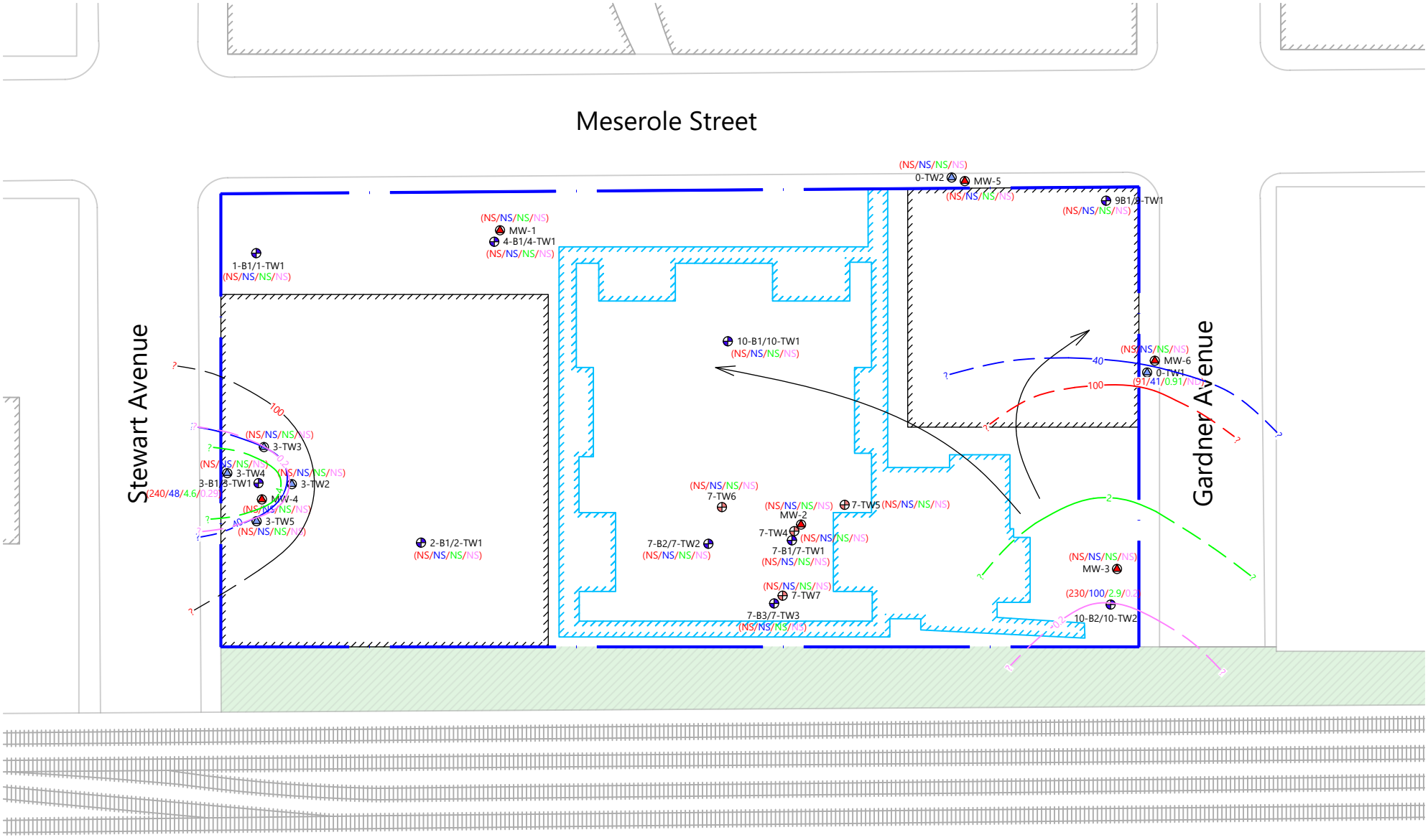

Legend and Notes:

- Site Boundary
- Site Building
- Scaffolding
- MW-1 Monitoring Well Location
- 0-TW1 Temporary Well Location
- 9-B1 Soil Boring/Temporary Well Loction
- 7-TW4 Proposed Boring Location
- Horizontal Direction of Groundwater Flow

- PCE Isoconcentrations
- TCE Isoconcentrations
- cis-1,2-DCE Isoconcentrations
- Vinyl Chloride Isoconcentrations

- PCE = Tetrachloroethene
- TCE = Trichloroethene
- DCE = Dichloroethene
- Isoconcentrations dashed where inferred, queried where uncertain
- ND = not detected above Method Detection Limit
- NS = not sampled
- J = estimated concentration
- Concentrations presented in µg/L (microgram per liter)

N

30' 0' 30' 60'

Approximate Scale

Title: **PCE, TCE, cis-1,2-DCE and Vinyl Chloride Isoconcentrations in Deep Groundwater**			
Figure: **7.3**	Prepared By: **AS**	Date: **August 2022**	Project Number: **17244793-EN**
Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258 **Brooklyn, New York 11237**			

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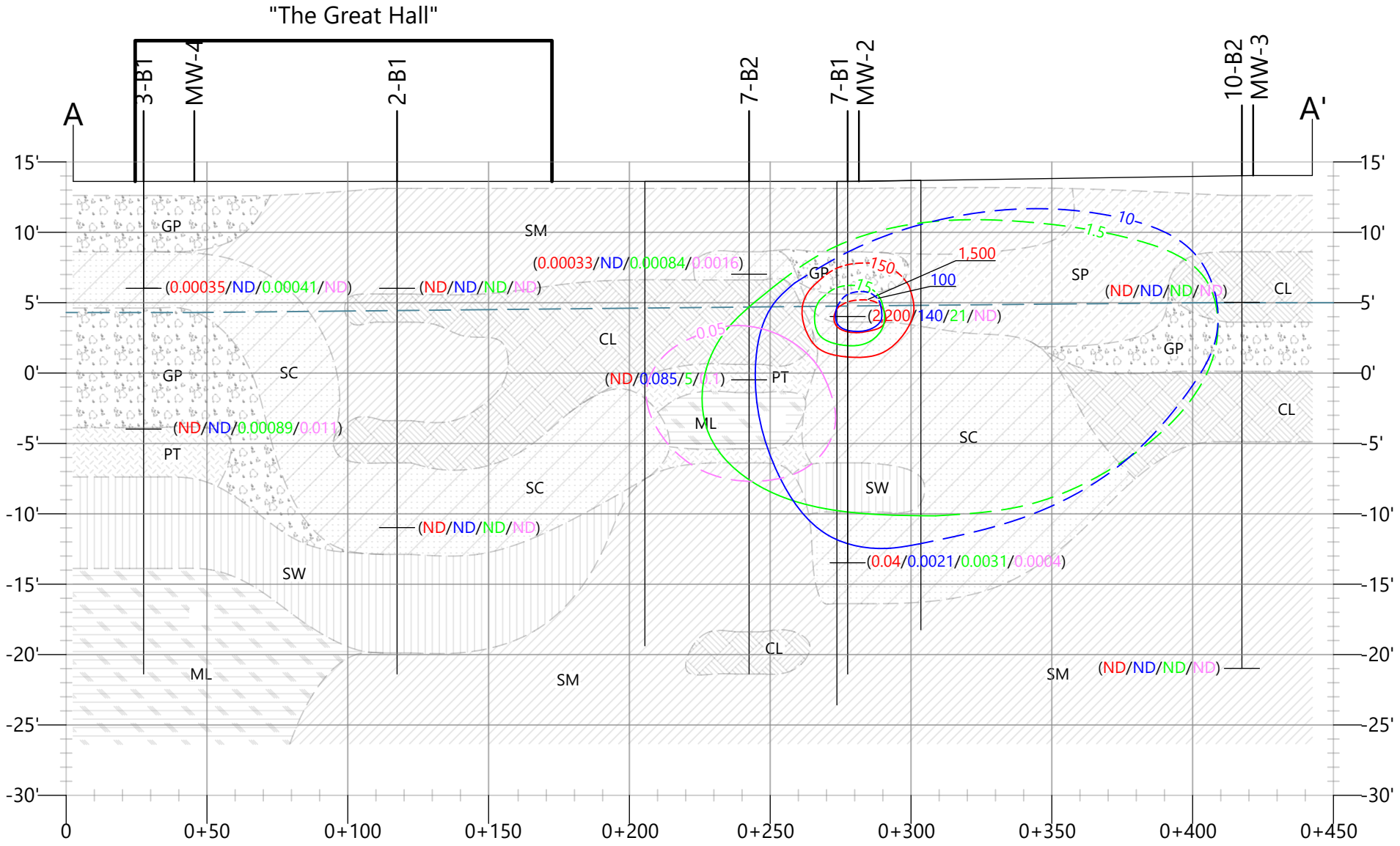


Legend and Notes:

GP	Poorly Graded Gravel	PCE Isoconcentrations	
SC	Clayey Sand	TCE Isoconcentrations	
PT	Peat	cis-1,2-DCE Isoconcentrations	
SW	Well Graded Sand	Vinyl Chloride Isoconcentrations	
ML	Silt		
SM	Silty Sand		
CL	Lean Clay		
	Groundwater Elevation Contour		

- Vertical axis = feet above mean sea level
- Horizontal axis = feet
- Soil layers dased where inferred
- VOCs = Volatile Organic Compounds
- SVOCs = Semi-Volatile Organic Compounds
- Isoconcentrations dashed where inferred, queried where uncertain
- ND = not detected above Method Detection Limit
- NS = not sampled
- J = estimated concentration
- Concentrations presented in mg/kg (milligram per kilogram)

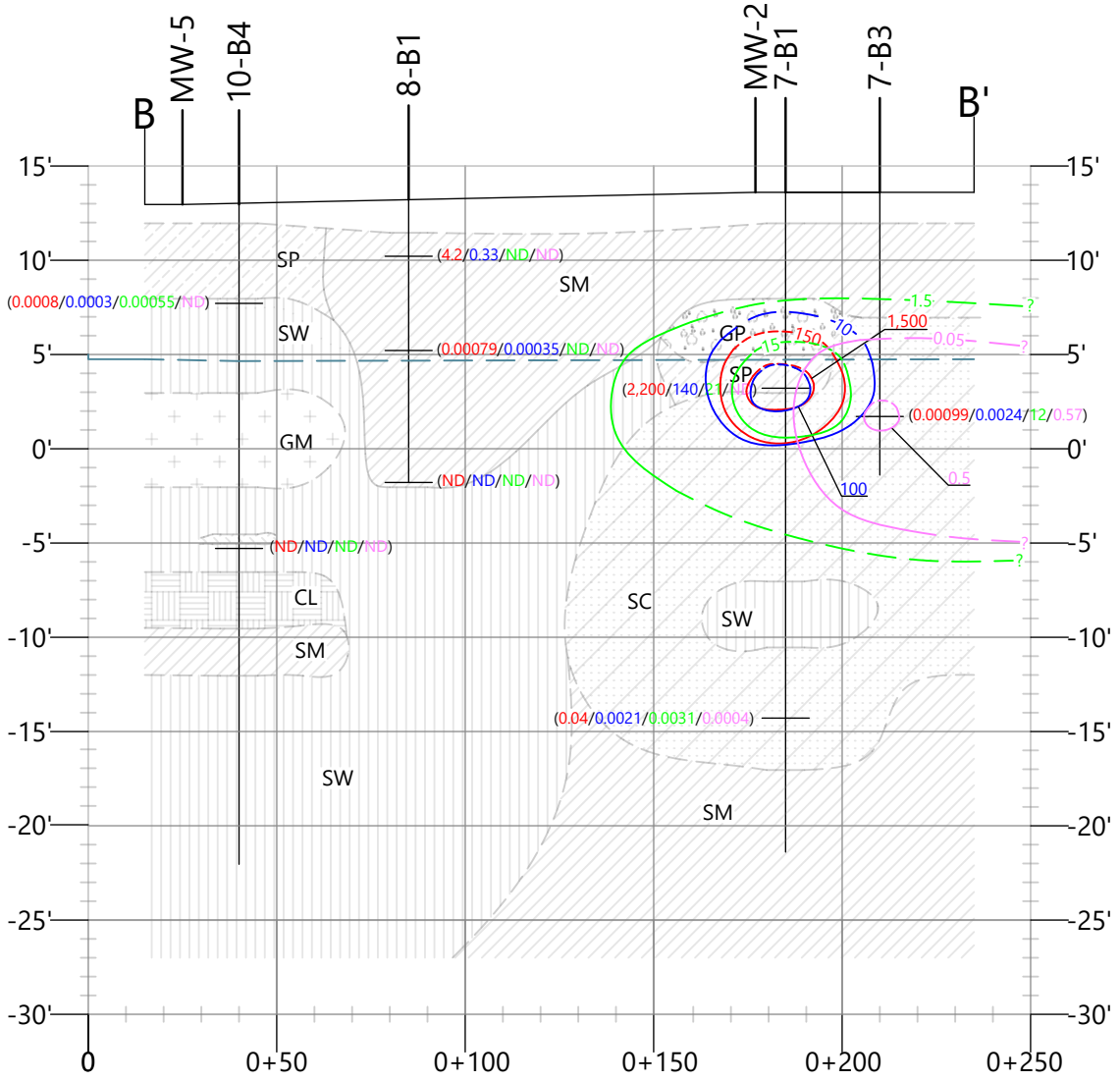
Vertical Scale in Feet
1" = 10'
Horizontal Scale in Feet
1" = 50'
(Vertical Exaggeration = 5x)

Title: Geological Cross-Section A-A' - PCE, TCE, cis-1,2-DCE and Vinyl Chloride Isoconcentrations in Soil

Figure:	Prepared By:	Date:	Project Number:
7.4	AS	August 2022	17244793-EN

Address:
140 Stewart Avenue and 111 Gardner Avenue - Site C224258
Brooklyn, New York 11237

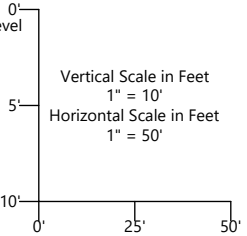
PSG Engineering and Geology, D.P.C.



Legend and Notes:

GP	Poorly Graded Gravel	PCE Isoconcentrations
SC	Clayey Sand	TCE Isoconcentrations
PT	Peat	cis-1,2-DCE Isoconcentrations
SW	Well Graded Sand	Vinyl Chloride Isoconcentrations
SM	Silty Sand	
CL	Lean Clay	
GM	Silty Gravel	
	Groundwater Elevation Contour	

- Vertical axis = feet above mean sea level
- Horizontal axis = feet
- Soil layers dased where inferred
- VOCs = Volatile Organic Compounds
- SVOCs = Semi-Volatile Organic Compounds
- Isoconcentrations dashed where inferred, queried where uncertain
- ND = not detected above Method Detection Limit
- NS = not sampled
- J = estimated concentration
- Concentrations presented in mg/kg (milligram per kilogram)



Vertical Scale in Feet
1" = 10'
Horizontal Scale in Feet
1" = 50'
(Vertical Exaggeration = 5x)

Title: Geological Cross-Section A-A' - PCE, TCE, cis-1,2-DCE and Vinyl Chloride Isoconcentrations in Soil

Figure:	Prepared By:	Date:	Project Number:
7.5	AS	August 2022	17244793-EN

Address:
140 Stewart Avenue and 111 Gardner Avenue - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.

Legend and Notes:

- GP Poorly Graded Gravel
- SC Clayey Sand
- PT Peat
- SW Well Graded Sand
- ML Silt
- SM Silty Sand
- CL Lean Clay
- Groundwater Elevation Contour

- PCE Isoconcentrations
- TCE Isoconcentrations
- cis-1,2-DCE Isoconcentrations
- Vinyl Chloride Isoconcentrations

- Vertical axis = feet above mean sea level
- Horizontal axis = feet
- Soil layers dased where inferred
- PCE = Tetrachloroethene
- TCE = Trichloroethene
- DCE = Dichloroethene
- Isoconcentrations dashed where inferred, queried where uncertain
- ND = not detected above Method Detection Limit
- NS = not sampled
- J = estimated concentration
- Concentrations presented in µg/L (microgram per liter)

Vertical Scale in Feet
1" = 15'
Horizontal Scale in Feet
1" = 75'
(Vertical Exaggeration = 5x)

Title: Geological Cross-Section A-A' - PCE, TCE, cis-1,2-DCE and Vinyl Chloride Isoconcentrations in Groundwater

Figure:	Prepared By:	Date:	Project Number:
7.6	AS	August 2022	17244793-EN

Address:
140 Stewart Avenue and 111 Gardner Avenue - Site C224258
Brooklyn, New York 11237

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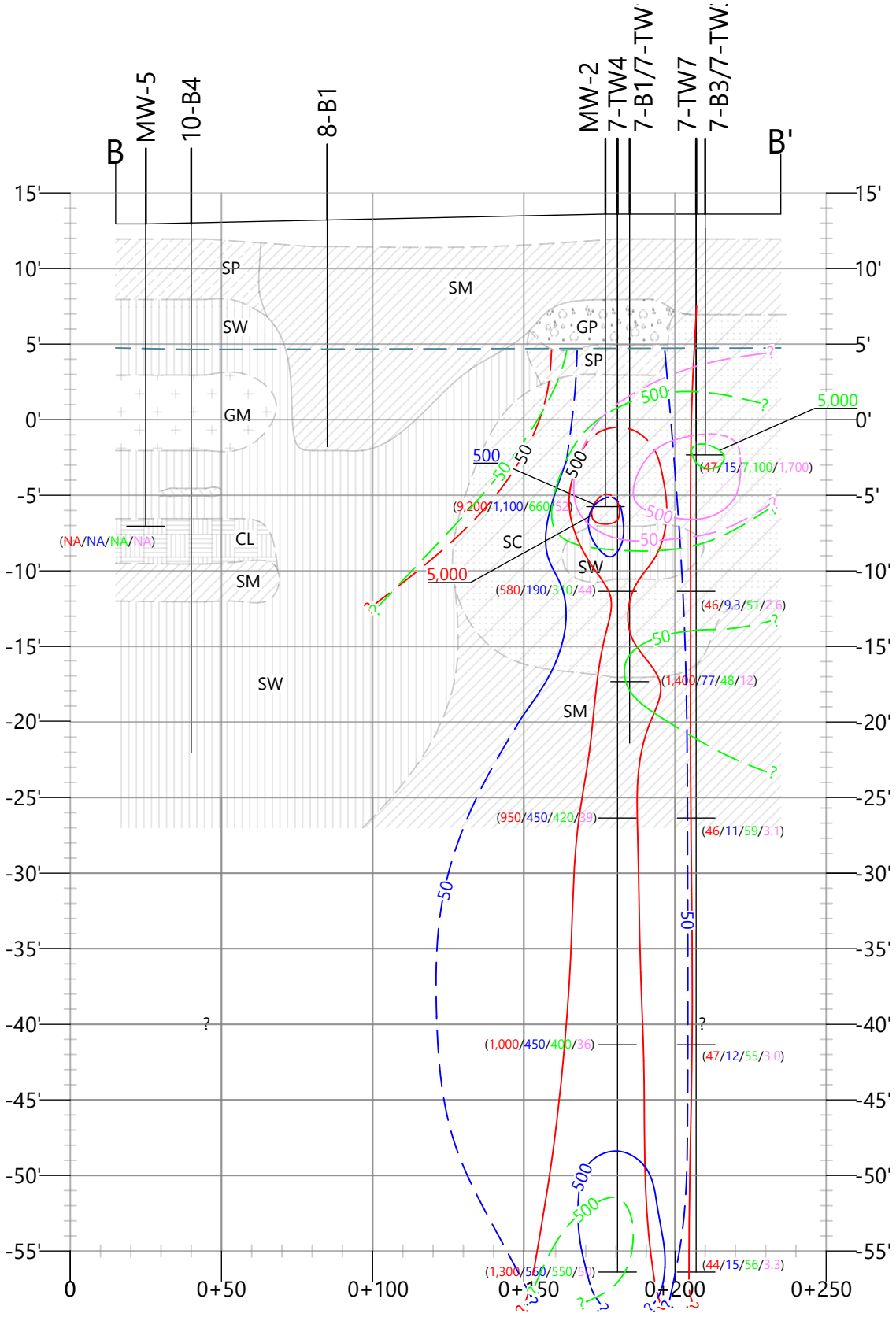

Legend and Notes:

GP	Poorly Graded Gravel	PCE Isoconcentrations
SC	Clayey Sand	TCE Isoconcentrations
PT	Peat	cis-1,2-DCE Isoconcentrations
SW	Well Graded Sand	Vinyl Chloride Isoconcentrations
SM	Silty Sand	
CL	Lean Clay	
GM	Silty Gravel	
	Groundwater Elevation Contour	

- Vertical axis = feet above mean sea level
- Horizontal axis = feet
- Soil layers dased where inferred
- PCE = Tetrachloroethene
- TCE = Trichloroethene
- DCE = Dichloroethene
- Isoconcentrations dashed where inferred, queried where uncertain
- ND = not detected above Method Detection Limit
- NS = not sampled
- J = estimated concentration
- Concentrations presented in µg/L (microgram per liter)

Vertical Scale in Feet
1" = 5'
Horizontal Scale in Feet
1" = 50'
(Vertical Exaggeration = 5x)

Title: **Geological Cross-Section B-B' - PCE, TCE, cis-1,2-DCE and Vinyl Chloride Isoconcentrations in Groundwater**

Figure:	Prepared By:	Date:	Project Number:
7.7	AS	August 2022	17244793-EN

Address:
140 Stewart Avenue and 111 Gardner Avenue - Site C224258
Brooklyn, New York 11237

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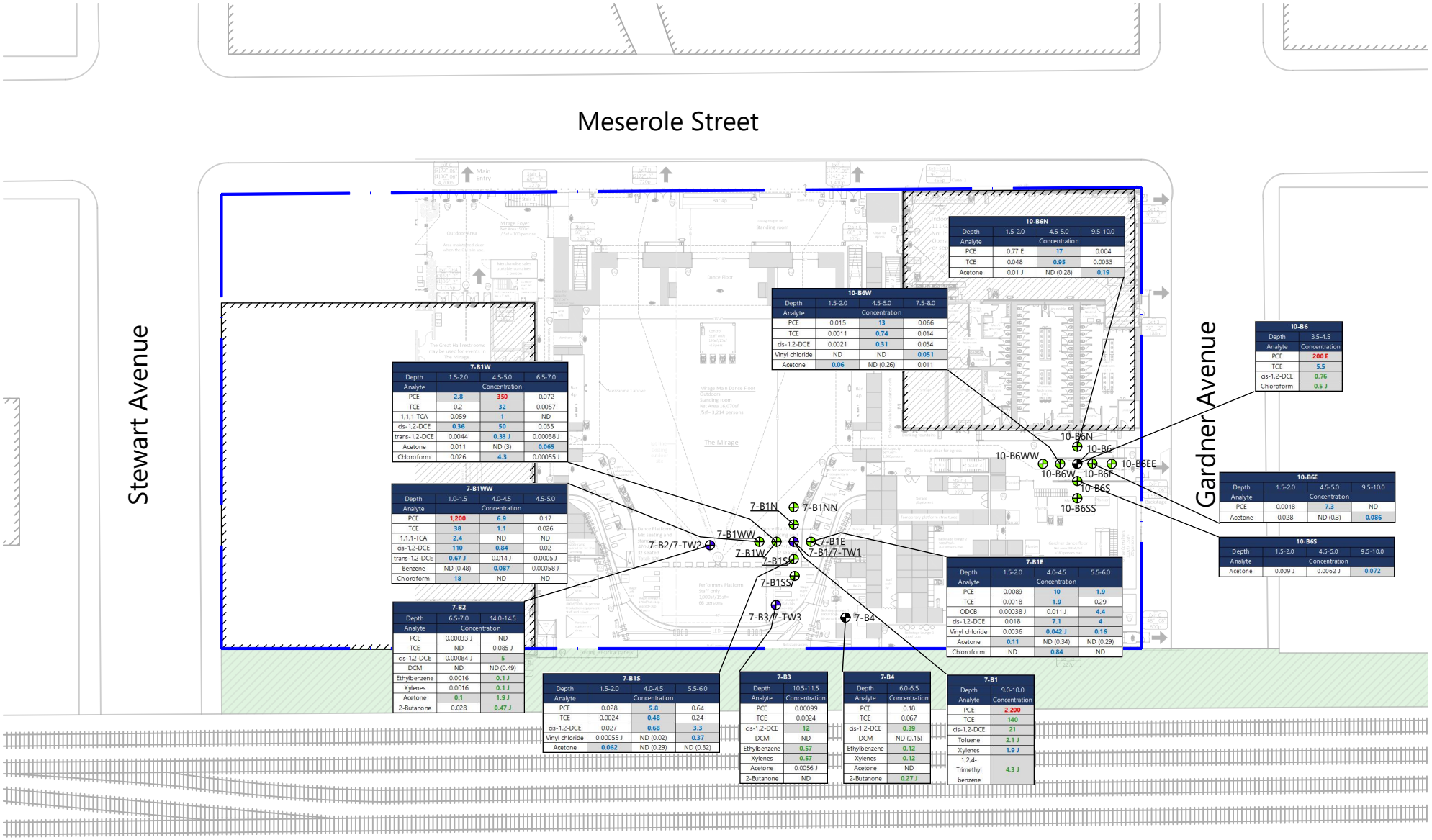

Legend and Notes:

- Site Boundary
- Site Building
- Soil Boring Location
- Proposed Soil Boring Location (Partner, June 2023)
- Soil Boring/Temporary Well Loction
- 140 — Concentration Exceeds NY-UNRES
- 2,200 — Concentration Exceeds NY-COM
- 5.8 — Concentration Exceeds NY-Protection of GW

- VOCs = Volatile Organic Compounds
- DCE = Dichloroethene
- TCE = Trichloroethene
- PCE = Tetrachloroethene
- ODCB = 1,2-Dichlorobenzene
- Depth in feet below ground surface
- Concentrations in mg/kg (milligram per kilogram)
- ND = not detected above indicated laboratory Reporting Limit (RL)
- NY-UNRES = New York Unrestricted Use Criteria
- NY-COM = New York Commercial Criteria
- NY-Protective of GW = New York Protection of Groundwater Criteria
- J = Estimated Concentration

N

30' 0' 30' 60'

Approximate Scale

Title: **AOC-7 and 10 - VOCs Exceedances in Soil**

Figure:	Prepared By:	Date:	Project Number:
8	AS	August 2023	ES22-387153

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

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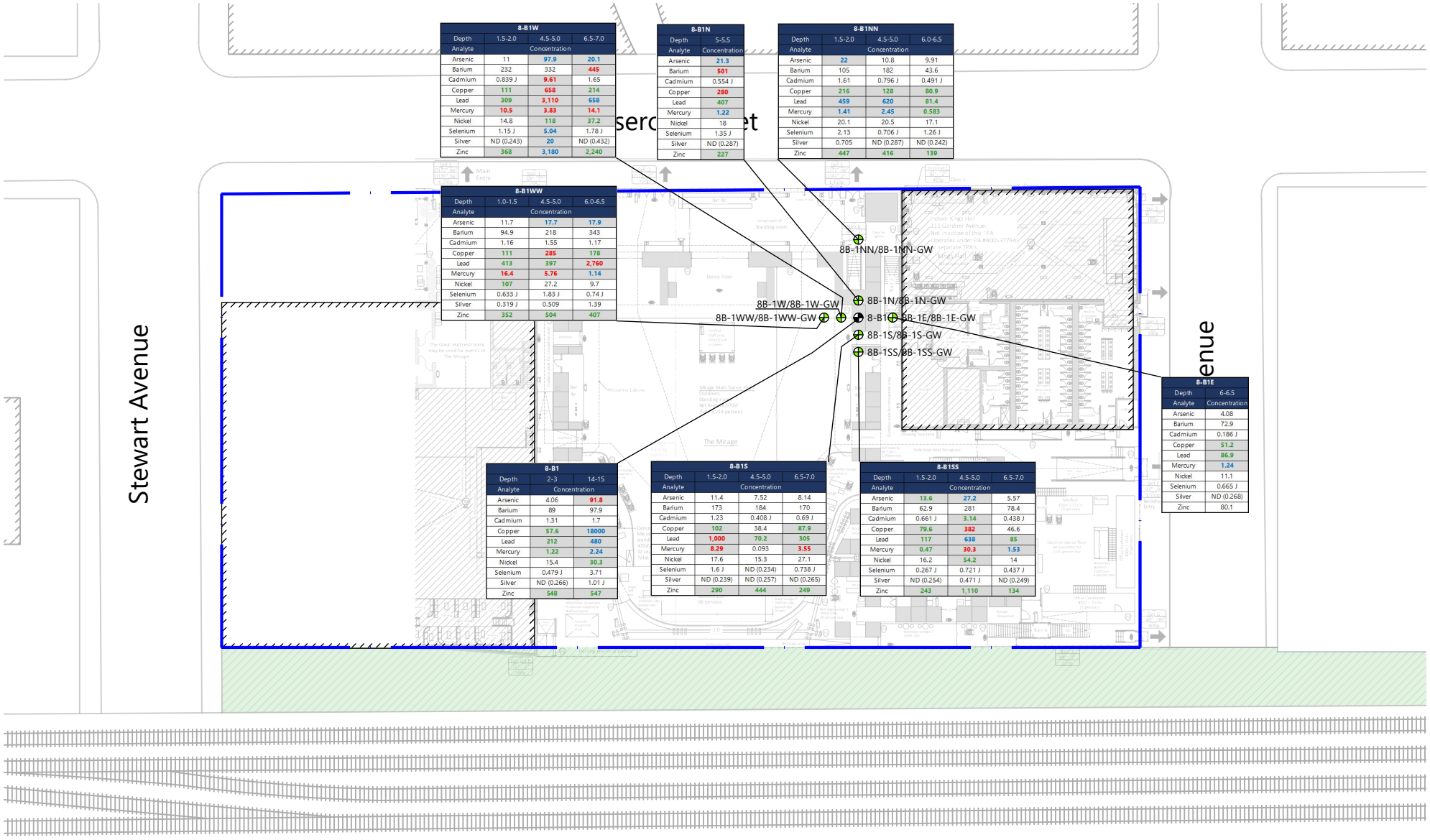


8-B1W

Depth	1.5-2.0	4.5-5.0	6.5-7.0
Analyte	Concentration		
Arsenic	11	97.9	20.1
Barium	232	332	445
Cadmium	0.839 J	9.61	1.65
Copper	111	658	214
Lead	309	3,110	658
Mercury	10.5	3.83	14.1
Nickel	14.8	118	37.2
Selenium	1.15 J	5.04	1.78 J
Silver	ND (0.243)	20	ND (0.432)
Zinc	368	3,180	2,240

8-B1N

Depth	5-5.5
Analyte	Concentration
Arsenic	21.3
Barium	501
Cadmium	0.554 J
Copper	280
Lead	407
Mercury	1.22
Nickel	18
Selenium	1.35 J
Silver	ND (0.287)
Zinc	227

8-B1NN

Depth	1.5-2.0	4.5-5.0	6.0-6.5
Analyte	Concentration		
Arsenic	22	10.8	9.91
Barium	105	182	43.6
Cadmium	1.61	0.796 J	0.491 J
Copper	216	128	80.9
Lead	459	620	81.4
Mercury	1.41	2.45	0.583
Nickel	20.1	20.5	17.1
Selenium	2.13	0.706 J	1.26 J
Silver	0.705	ND (0.287)	ND (0.242)
Zinc	447	416	139

8-B1WW

Depth	1.0-1.5	4.5-5.0	6.0-6.5
Analyte	Concentration		
Arsenic	11.7	17.7	17.9
Barium	94.9	218	343
Cadmium	1.16	1.55	1.17
Copper	111	285	178
Lead	413	397	2,760
Mercury	16.4	5.76	1.14
Nickel	107	27.2	9.7
Selenium	0.633 J	1.83 J	0.74 J
Silver	0.319 J	0.509	1.39
Zinc	352	504	407

8-B1E

Depth	6-6.5
Analyte	Concentration
Arsenic	4.08
Barium	72.9
Cadmium	0.186 J
Copper	51.2
Lead	86.9
Mercury	1.24
Nickel	11.1
Selenium	0.665 J
Silver	ND (0.268)
Zinc	80.1

8-B1

Depth	2-3	14-15
Analyte	Concentration	
Arsenic	4.06	91.8
Barium	89	97.9
Cadmium	1.31	1.7
Copper	57.6	18000
Lead	212	480
Mercury	1.22	2.24
Nickel	15.4	30.3
Selenium	0.479 J	3.71
Silver	ND (0.266)	1.01 J
Zinc	548	547

8-B1S

Depth	1.5-2.0	4.5-5.0	6.5-7.0
Analyte	Concentration		
Arsenic	11.4	7.52	8.14
Barium	173	184	170
Cadmium	1.23	0.408 J	0.69 J
Copper	102	38.4	87.9
Lead	1,000	70.2	305
Mercury	8.29	0.093	3.55
Nickel	17.6	15.3	27.1
Selenium	1.6 J	ND (0.234)	0.738 J
Silver	ND (0.239)	ND (0.257)	ND (0.265)
Zinc	290	444	249

8-B1SS

Depth	1.5-2.0	4.5-5.0	6.5-7.0
Analyte	Concentration		
Arsenic	13.6	27.2	5.57
Barium	62.9	281	78.4
Cadmium	0.661 J	3.14	0.438 J
Copper	79.6	382	46.6
Lead	117	638	85
Mercury	0.47	30.3	1.53
Nickel	16.2	54.2	14
Selenium	0.267 J	0.721 J	0.437 J
Silver	ND (0.254)	0.471 J	ND (0.249)
Zinc	243	1,110	134

Legend and Notes:

- Site Boundary
- Site Building
- Soil Boring Location
- Proposed Soil Boring Location (Partner, June 2023)
- 57.6 — Concentration Exceeds NY-UNRES
- 91.8 — Concentration Exceeds NY-COM
- 18,000 — Concentration Exceeds NY-Protection of GW

- Depth in feet below ground surface
- Concentrations in mg/kg (milligram per kilogram)
- ND = not detected above indicated laboratory Reporting Limit (RL)
- NY-UNRES = New York Unrestricted Use Criteria
- NY-COM = New York Commercial Criteria
- NY-Protective of GW = New York Protection of Groundwater Criteria
- J = Estimated Concentration

N

30' 0' 30' 60'

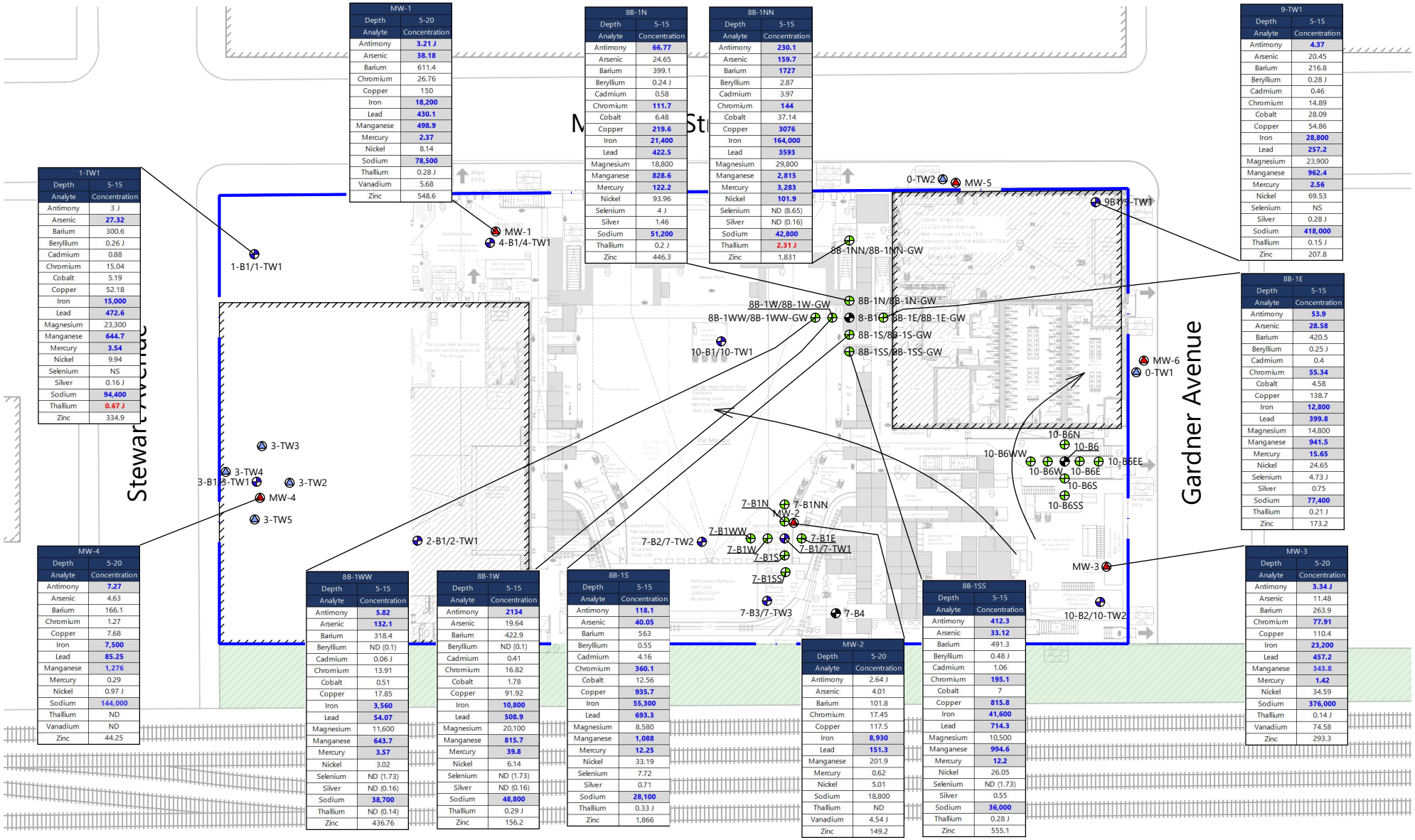
Approximate Scale

Title: **AOC-8 - Metals Exceedances in Soil**

Figure:	Prepared By:	Date:	Project Number:
9.1	AS	August 2023	ES22-387153

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



MW-1	
Depth	5-20
Analyte	Concentration
Antimony	**3.21 J**
Arsenic	**38.18**
Barium	611.4
Chromium	26.76
Copper	150
Iron	**18,200**
Lead	**430.1**
Manganese	**498.9**
Mercury	**2.37**
Nickel	8.14
Sodium	**78,500**
Thallium	0.28 J
Vanadium	5.68
Zinc	548.6

8B-1N	
Depth	5-15
Analyte	Concentration
Antimony	**66.77**
Arsenic	24.65
Barium	399.1
Beryllium	0.24 J
Cadmium	0.58
Chromium	**111.7**
Cobalt	6.48
Copper	**219.6**
Iron	**21,400**
Lead	**422.5**
Magnesium	18,800
Manganese	**828.6**
Mercury	**122.2**
Nickel	93.96
Selenium	4 J
Silver	1.46
Sodium	**51,200**
Thallium	0.2 J
Zinc	446.3

8B-1NN	
Depth	5-15
Analyte	Concentration
Antimony	**230.1**
Arsenic	**159.7**
Barium	**1727**
Beryllium	2.87
Cadmium	3.97
Chromium	**144**
Cobalt	37.14
Copper	**3076**
Iron	**164,000**
Lead	**3593**
Magnesium	29,800
Manganese	**2,815**
Mercury	**3,283**
Nickel	**101.9**
Selenium	ND (8.65)
Silver	ND (0.16)
Sodium	**42,800**
Thallium	**2.31 J**
Zinc	1,831

9-TW1	
Depth	5-15
Analyte	Concentration
Antimony	**4.37**
Arsenic	20.45
Barium	216.8
Beryllium	0.28 J
Cadmium	0.46
Chromium	14.89
Cobalt	28.09
Copper	54.86
Iron	**28,800**
Lead	**257.2**
Magnesium	23,900
Manganese	**962.4**
Mercury	**2.56**
Nickel	69.53
Selenium	NS
Silver	0.28 J
Sodium	**418,000**
Thallium	0.15 J
Zinc	207.8

1-TW1	
Depth	5-15
Analyte	Concentration
Antimony	3 J
Arsenic	**27.32**
Barium	300.6
Beryllium	0.26 J
Cadmium	0.88
Chromium	15.04
Cobalt	5.19
Copper	52.18
Iron	**15,000**
Lead	**472.6**
Magnesium	23,300
Manganese	**644.7**
Mercury	**3.54**
Nickel	9.94
Selenium	NS
Silver	0.16 J
Sodium	**94,400**
Thallium	**0.67 J**
Zinc	334.9

8B-1E	
Depth	5-15
Analyte	Concentration
Antimony	**53.9**
Arsenic	**28.58**
Barium	420.5
Beryllium	0.25 J
Cadmium	0.4
Chromium	**55.34**
Cobalt	4.58
Copper	138.7
Iron	**12,800**
Lead	**399.8**
Magnesium	14,800
Manganese	**941.5**
Mercury	**15.65**
Nickel	24.65
Selenium	4.73 J
Silver	0.75
Sodium	**77,400**
Thallium	0.21 J
Zinc	173.2

MW-4	
Depth	5-20
Analyte	Concentration
Antimony	**7.27**
Arsenic	4.63
Barium	166.1
Chromium	1.27
Copper	7.68
Iron	**7,500**
Lead	**85.25**
Manganese	**1,276**
Mercury	0.29
Nickel	0.97 J
Sodium	**144,000**
Thallium	ND
Vanadium	ND
Zinc	44.25

8B-1WW	
Depth	5-15
Analyte	Concentration
Antimony	**5.82**
Arsenic	**132.1**
Barium	318.4
Beryllium	ND (0.1)
Cadmium	0.06 J
Chromium	13.91
Cobalt	0.51
Copper	17.85
Iron	**3,560**
Lead	**54.07**
Magnesium	11,600
Manganese	**643.7**
Mercury	**3.57**
Nickel	3.02
Selenium	ND (1.73)
Silver	ND (0.16)
Sodium	**38,700**
Thallium	ND (0.14)
Zinc	436.76

8B-1W	
Depth	5-15
Analyte	Concentration
Antimony	**2134**
Arsenic	19.64
Barium	422.9
Beryllium	ND (0.1)
Cadmium	0.41
Chromium	16.82
Cobalt	1.78
Copper	91.92
Iron	**10,800**
Lead	**508.9**
Magnesium	20,100
Manganese	**815.7**
Mercury	**39.8**
Nickel	6.14
Selenium	ND (1.73)
Silver	ND (0.16)
Sodium	**48,800**
Thallium	0.29 J
Zinc	156.2

8B-1S	
Depth	5-15
Analyte	Concentration
Antimony	**118.1**
Arsenic	**40.05**
Barium	563
Beryllium	0.55
Cadmium	4.16
Chromium	**360.1**
Cobalt	12.56
Copper	**935.7**
Iron	**55,300**
Lead	**693.3**
Magnesium	8,580
Manganese	**1,088**
Mercury	**12.25**
Nickel	33.19
Selenium	7.72
Silver	0.71
Sodium	**28,100**
Thallium	0.33 J
Zinc	1,866

MW-2	
Depth	5-20
Analyte	Concentration
Antimony	2.64 J
Arsenic	4.01
Barium	101.8
Chromium	17.45
Copper	117.5
Iron	**8,930**
Lead	**151.3**
Manganese	201.9
Mercury	0.62
Nickel	5.01
Sodium	18,800
Thallium	ND
Vanadium	4.54 J
Zinc	149.2

8B-1SS	
Depth	5-15
Analyte	Concentration
Antimony	**412.3**
Arsenic	**33.12**
Barium	491.3
Beryllium	0.48 J
Cadmium	1.06
Chromium	**195.1**
Cobalt	7
Copper	**815.8**
Iron	**41,600**
Lead	**714.3**
Magnesium	10,500
Manganese	**994.6**
Mercury	**12.2**
Nickel	26.05
Selenium	ND (1.73)
Silver	0.55
Sodium	**36,000**
Thallium	0.28 J
Zinc	555.1

MW-3	
Depth	5-20
Analyte	Concentration
Antimony	**3.34 J**
Arsenic	11.48
Barium	263.9
Chromium	**77.91**
Copper	110.4
Iron	**23,200**
Lead	**457.2**
Manganese	**343.8**
Mercury	**1.42**
Nickel	34.59
Sodium	**376,000**
Thallium	0.14 J
Vanadium	74.58
Zinc	293.3

Legend and Notes:

- Site Boundary — 49.01
- Site Building — 2.31
- Monitoring Well Location
- Temporary Well Location
- Soil Boring/Temporary Well Loction
- Proposed Soil Boring Location (Partner, June 2023)
- Horizontal Direction of Groundwater Flow

Concentration Exceeds New York State Ambient Water Quality Standards Values
Concentration Exceeds New York State Guidance Water Quality Standards Values

- ND = not detected above Method Detection Limit
- NA = not analyzed
- NS = not sampled
- J = estimated concentration
- Concentrations presented in µg/L (microgram per liter)

N

30' 0' 30' 60'

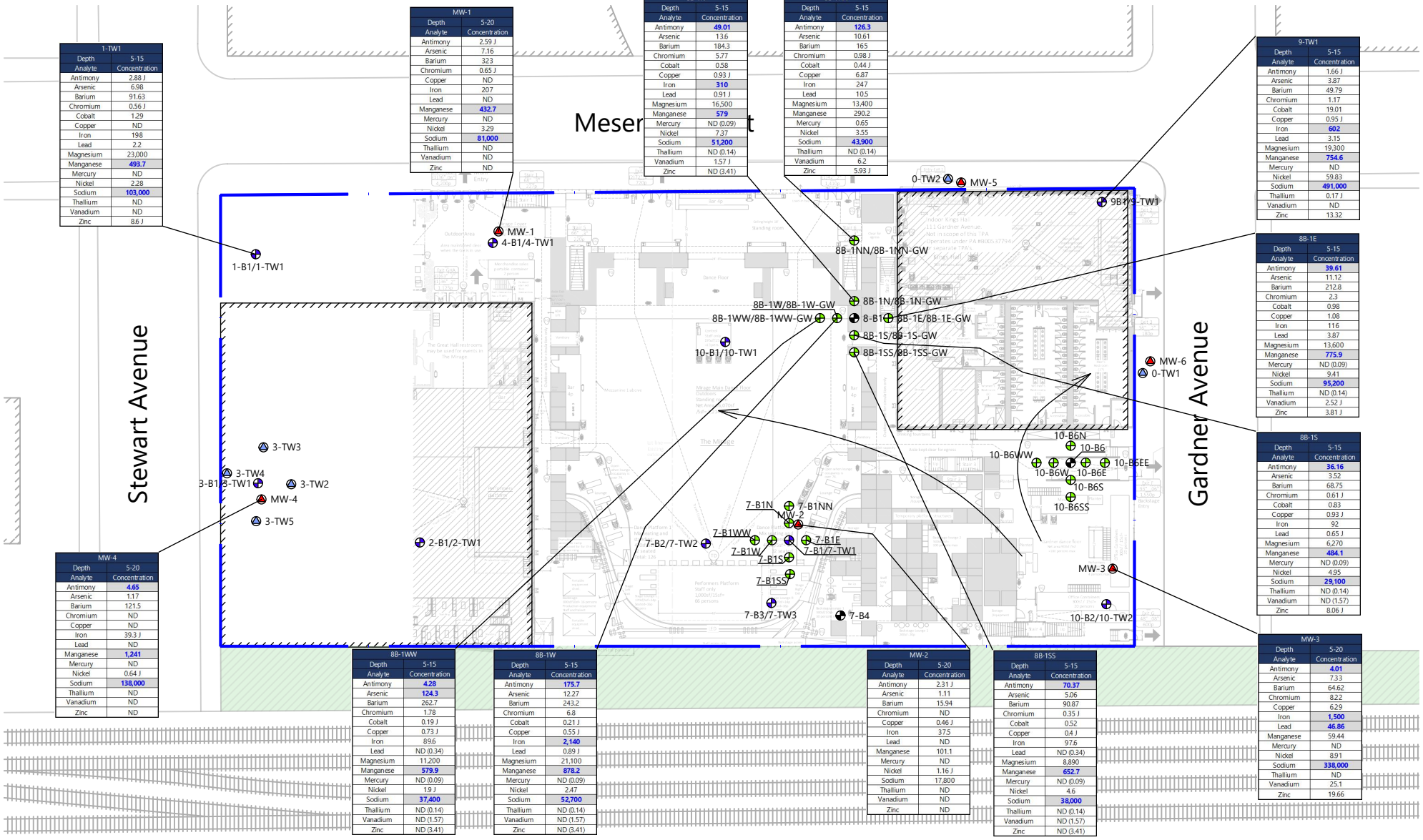
Approximate Scale

Title: Metals Exceedances in Groundwater

Figure:	Prepared By:	Date:	Project Number:
9.2	AS	August 2023	ES22-387153

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



1-TW1	
Depth	5-15
Analyte	Concentration
Antimony	2.88 J
Arsenic	6.98
Barium	91.63
Chromium	0.56 J
Cobalt	1.29
Copper	ND
Iron	198
Lead	2.2
Magnesium	23,000
Manganese	**493.7**
Mercury	ND
Nickel	2.28
Sodium	**103,000**
Thallium	ND
Vanadium	ND
Zinc	8.6 J

MW-1	
Depth	5-20
Analyte	Concentration
Antimony	2.59 J
Arsenic	7.16
Barium	323
Chromium	0.65 J
Copper	ND
Iron	207
Lead	ND
Manganese	**432.7**
Mercury	ND
Nickel	3.29
Sodium	**81,000**
Thallium	ND
Vanadium	ND
Zinc	ND

8B-1N	
Depth	5-15
Analyte	Concentration
Antimony	**49.01**
Arsenic	13.6
Barium	184.3
Chromium	5.77
Cobalt	0.58
Copper	0.93 J
Iron	**310**
Lead	0.91 J
Magnesium	16,500
Manganese	**579**
Mercury	ND (0.09)
Nickel	7.37
Sodium	**51,200**
Thallium	ND (0.14)
Vanadium	1.57 J
Zinc	ND (3.41)

8B-1NN	
Depth	5-15
Analyte	Concentration
Antimony	**126.3**
Arsenic	10.61
Barium	165
Chromium	0.98 J
Cobalt	0.44 J
Copper	6.87
Iron	247
Lead	10.5
Magnesium	13,400
Manganese	290.2
Mercury	0.65
Nickel	3.55
Sodium	**43,900**
Thallium	ND (0.14)
Vanadium	6.2
Zinc	5.93 J

9-TW1	
Depth	5-15
Analyte	Concentration
Antimony	1.66 J
Arsenic	3.87
Barium	49.79
Chromium	1.17
Cobalt	19.01
Copper	0.95 J
Iron	**602**
Lead	3.15
Magnesium	19,300
Manganese	**754.6**
Mercury	ND
Nickel	59.83
Sodium	**491,000**
Thallium	0.17 J
Vanadium	ND
Zinc	13.32

8B-1E	
Depth	5-15
Analyte	Concentration
Antimony	**39.61**
Arsenic	11.12
Barium	212.8
Chromium	2.3
Cobalt	0.98
Copper	1.08
Iron	116
Lead	3.87
Magnesium	13,600
Manganese	**775.9**
Mercury	ND (0.09)
Nickel	9.41
Sodium	**95,200**
Thallium	ND (0.14)
Vanadium	2.52 J
Zinc	3.81 J

8B-1S	
Depth	5-15
Analyte	Concentration
Antimony	**36.16**
Arsenic	3.52
Barium	68.75
Chromium	0.61 J
Cobalt	0.83
Copper	0.93 J
Iron	92
Lead	0.65 J
Magnesium	6,270
Manganese	**484.1**
Mercury	ND (0.09)
Nickel	4.95
Sodium	**29,100**
Thallium	ND (0.14)
Vanadium	ND (1.57)
Zinc	8.06 J

MW-4	
Depth	5-20
Analyte	Concentration
Antimony	**4.65**
Arsenic	1.17
Barium	121.5
Chromium	ND
Copper	ND
Iron	39.3 J
Lead	ND
Manganese	**1,241**
Mercury	ND
Nickel	0.64 J
Sodium	**138,000**
Thallium	ND
Vanadium	ND
Zinc	ND

8B-1WW	
Depth	5-15
Analyte	Concentration
Antimony	**4.28**
Arsenic	**124.3**
Barium	262.7
Chromium	1.78
Cobalt	0.19 J
Copper	0.73 J
Iron	89.6
Lead	ND (0.34)
Magnesium	11,200
Manganese	**579.9**
Mercury	ND (0.09)
Nickel	1.9 J
Sodium	**37,400**
Thallium	ND (0.14)
Vanadium	ND (1.57)
Zinc	ND (3.41)

8B-1W	
Depth	5-15
Analyte	Concentration
Antimony	**175.7**
Arsenic	12.27
Barium	243.2
Chromium	6.8
Cobalt	0.21 J
Copper	0.55 J
Iron	**2,140**
Lead	0.89 J
Magnesium	21,100
Manganese	**878.2**
Mercury	ND (0.09)
Nickel	2.47
Sodium	**52,700**
Thallium	ND (0.14)
Vanadium	ND (1.57)
Zinc	ND (3.41)

MW-2	
Depth	5-20
Analyte	Concentration
Antimony	2.31 J
Arsenic	1.11
Barium	15.94
Chromium	ND
Copper	0.46 J
Iron	37.5
Lead	ND
Manganese	101.1
Mercury	ND
Nickel	1.16 J
Sodium	17,800
Thallium	ND
Vanadium	ND
Zinc	ND

8B-1SS	
Depth	5-15
Analyte	Concentration
Antimony	**70.37**
Arsenic	5.06
Barium	90.87
Chromium	0.35 J
Cobalt	0.52
Copper	0.4 J
Iron	97.6
Lead	ND (0.34)
Magnesium	8,890
Manganese	**652.7**
Mercury	ND (0.09)
Nickel	4.6
Sodium	**38,000**
Thallium	ND (0.14)
Vanadium	ND (1.57)
Zinc	ND (3.41)

MW-3	
Depth	5-20
Analyte	Concentration
Antimony	**4.01**
Arsenic	7.33
Barium	64.62
Chromium	8.22
Copper	6.29
Iron	**1,500**
Lead	**46.86**
Manganese	59.44
Mercury	ND
Nickel	8.91
Sodium	**338,000**
Thallium	ND
Vanadium	25.1
Zinc	19.66

Legend and Notes:

- Site Boundary
- Site Building
- MW-1 — Monitoring Well Location
- 0-TW1 — Temporary Well Location
- 9-B1 — Soil Boring/Temporary Well Loction
- Proposed Soil Boring Location (Partner, June 2023)
- Horizontal Direction of Groundwater Flow

49.01 — Concentration Exceeds New York State Ambient Water Quality Standards Values

- ND = not detected above Method Detection Limit
- NA = not analyzed
- NS = not sampled
- J = estimated concentration
- Concentrations presented in µg/L (microgram per liter)

N

30' 0' 30' 60'

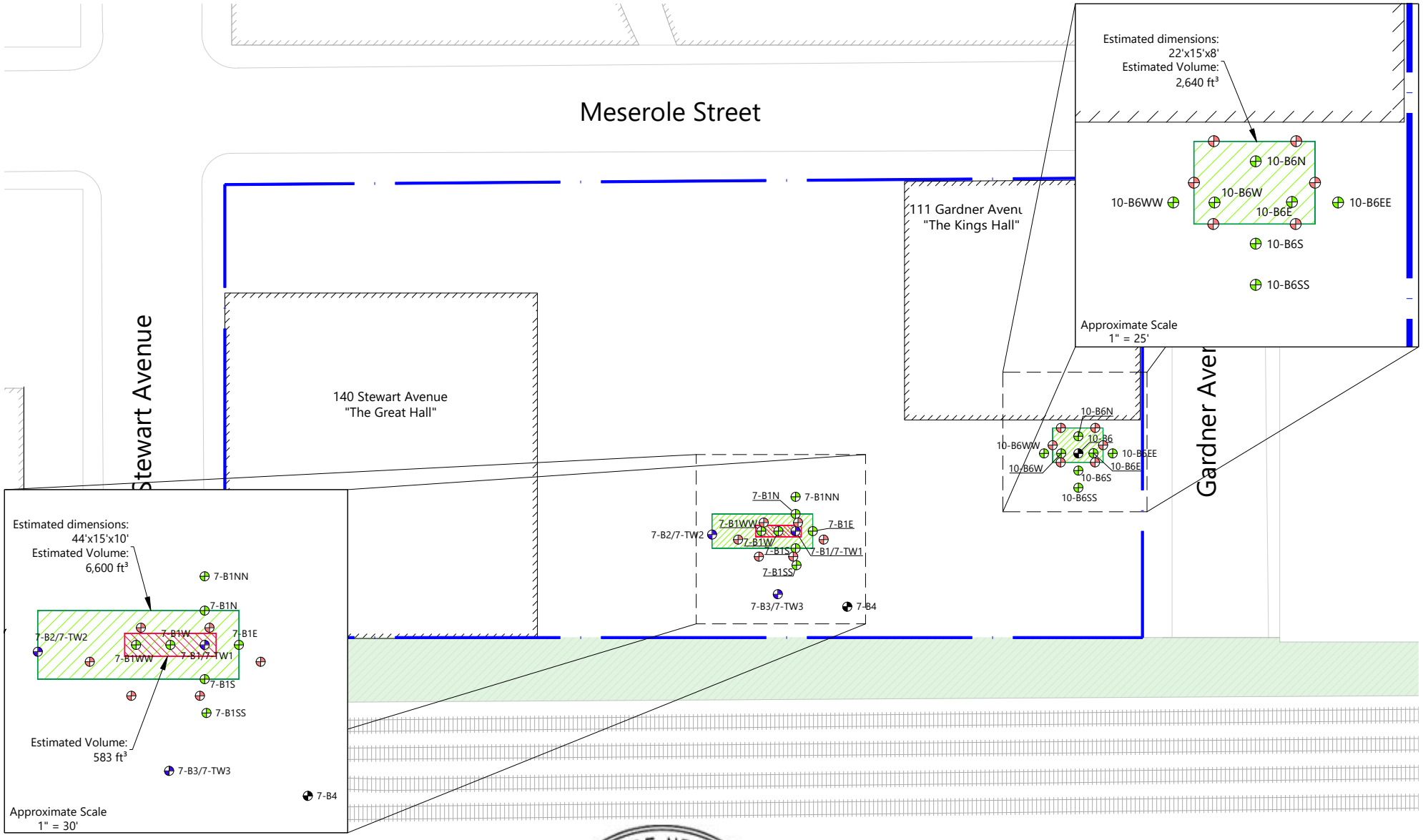
Approximate Scale

Title: **Metals (Dissolved) Exceedances in Groundwater**

Figure:	Prepared By:	Date:	Project Number:
9.3	AS	August 2023	ES22-387153

Address: **140 Stewart Avenue and 111 Gardner Avenue** - Site C224258
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



Legend and Notes:

- Site Boundary
- Site Building
- Soil Boring Location (PSG, May 2021)
- Proposed Soil Boring Location (PSG, June 2023)
- Soil Boring/Temporary Well Loction (PSG, May 2021)
- End-Point Sample Location
- Approximate Limits of Proposed cVOC Soil Hot Spot Removal
- Approximate Limits of Proposed cVOC Soil Hot Spot Removal - Hazardous Material

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096177
LICENSED PROFESSIONAL ENGINEER

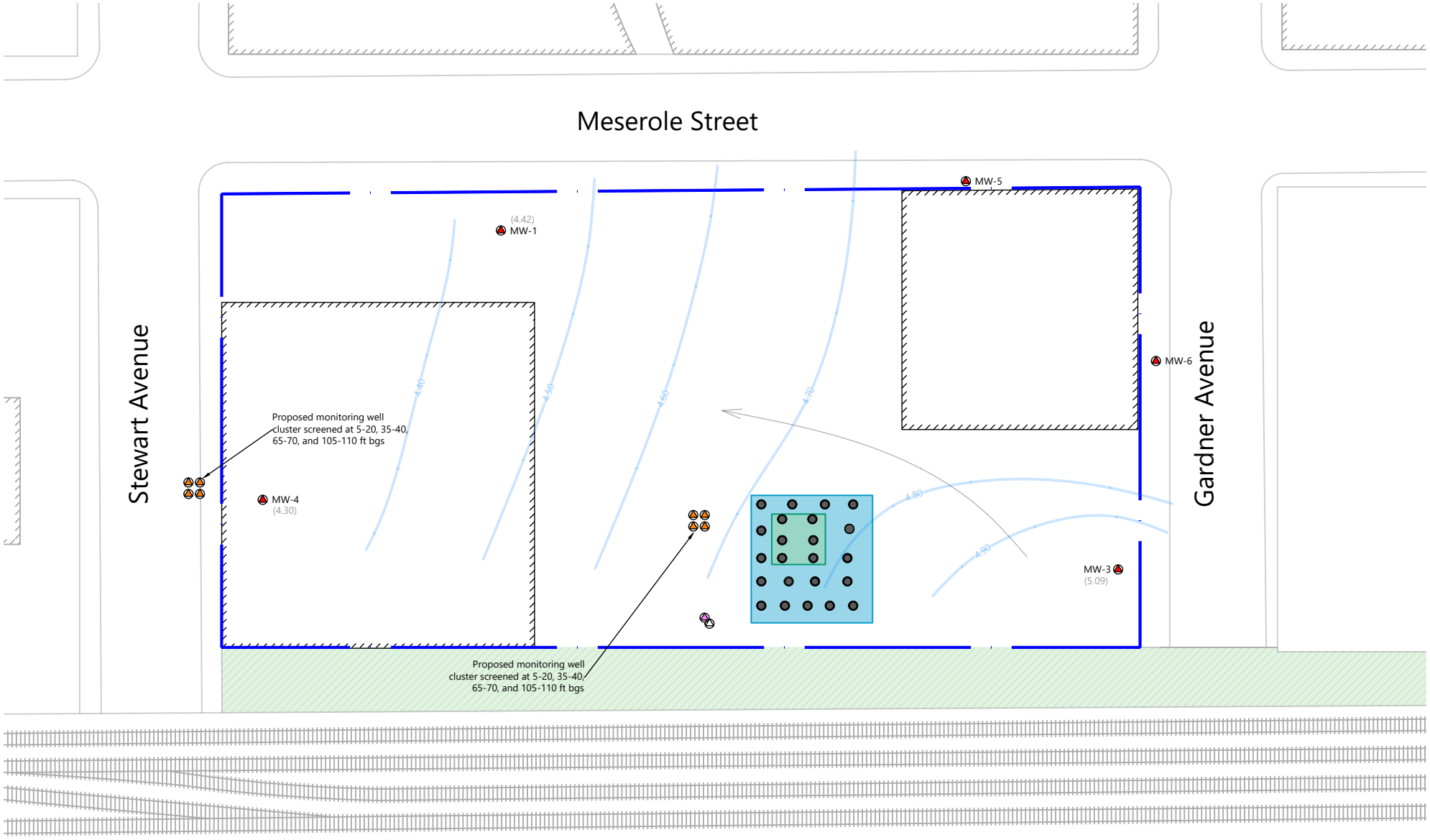
N

0' 30' 60'
Approximate Scale

Title: **AOCs 7 and 10 Estimated Limits of Proposed cVOC Soil Hot-Spot Removal**			
Figure: **10**	Prepared By: **AS**	Date: **November 2024**	Project Number: **ES22-387153**

Address:
NYSDEC BCP Site #C224258
140 Stewart Avenue and 111 Gardner Avenue
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



Legend and Notes:

- Site Boundary
- Site Building
- MW-1 Existing Monitoring Well Location
- Proposed Cluster Monitoring Well Location
- Proposed Shallow Monitoring Well Location
- Proposed Deep Monitoring Well Location
- (5.09) Water Level (FT AMSL)
- 4.40 Water Level Contour (FT AMSL)
- Horizontal Direction of Groundwater Flow
- Direct Push Injection Point Location
- Provect-IR Target Area (Vertical Interval: 15 to 40 ft bgs)
- Provect-IR Target Area (Vertical Interval: 15 to 110 ft bgs)

- FT AMSL = Feet Above Mean Sea Level
- Proposed well cluster screened at 5-20, 35-40, 65-70 and 105-11 ft bgs
- Shallow well screened at 5-20 ft bgs
- ft bgs = feet below ground surface

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N

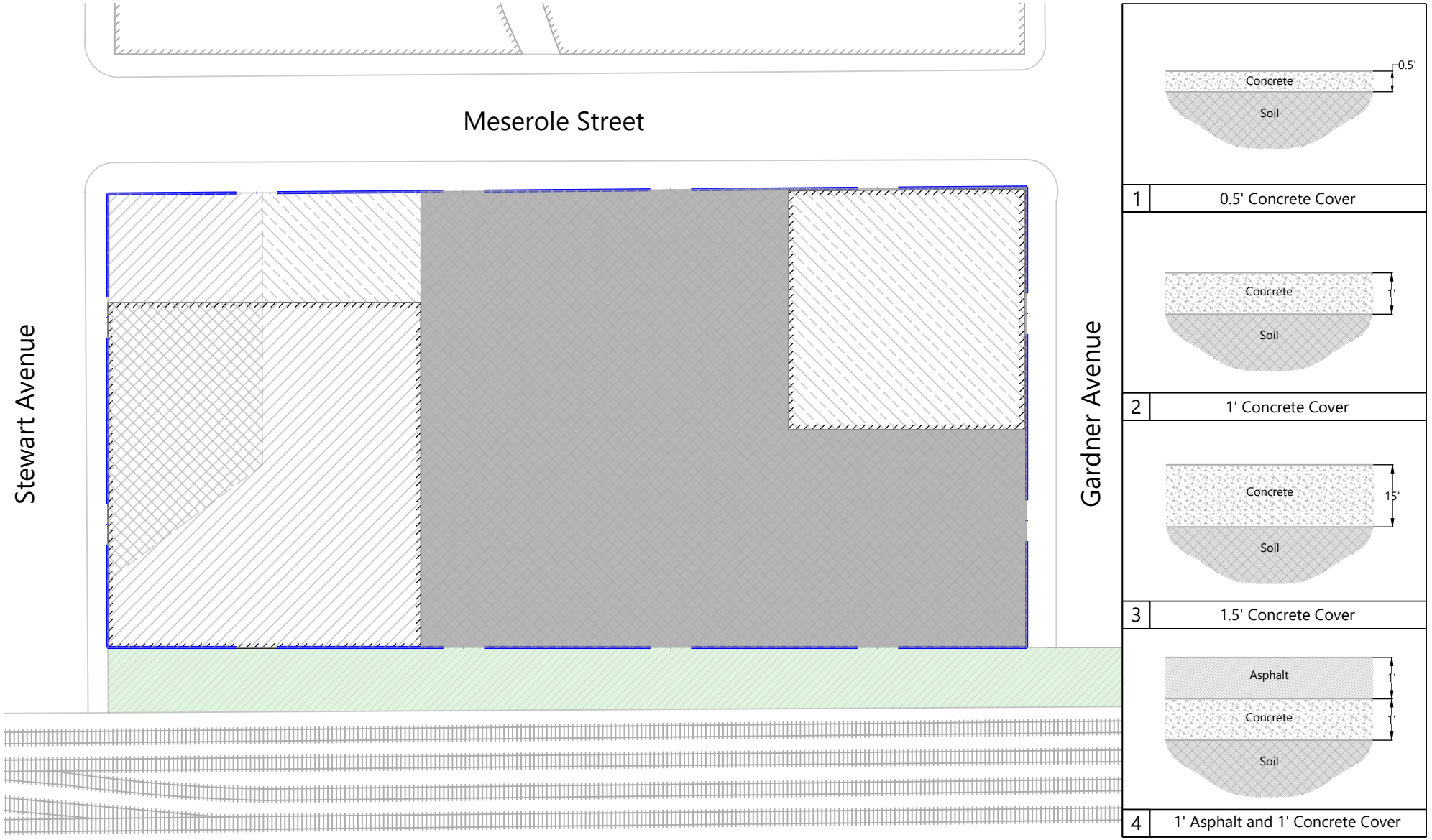
30' 0' 30' 60'

Approximate Scale

Title: Proposed ISCR Injection Point and Monitoring Well Locations			
Figure: 11	Prepared By: AS	Date: February 2025	Project Number: ES22-387153

Address:
NYSDEC BCP Site #C224258
140 Stewart Avenue and 111 Gardner Avenue
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



Legend and Notes:

- Site Boundary
- 0.5' Concrete Cover (1)
- 1' Concrete Cover (2)
- 1.5' Concrete Cover (3)
- 1' Asphalt and 1' Concrete Cover (4)

STATE OF NEW YORK
KRISTINE M. MACWILLIAMS
096177
LICENSED PROFESSIONAL ENGINEER

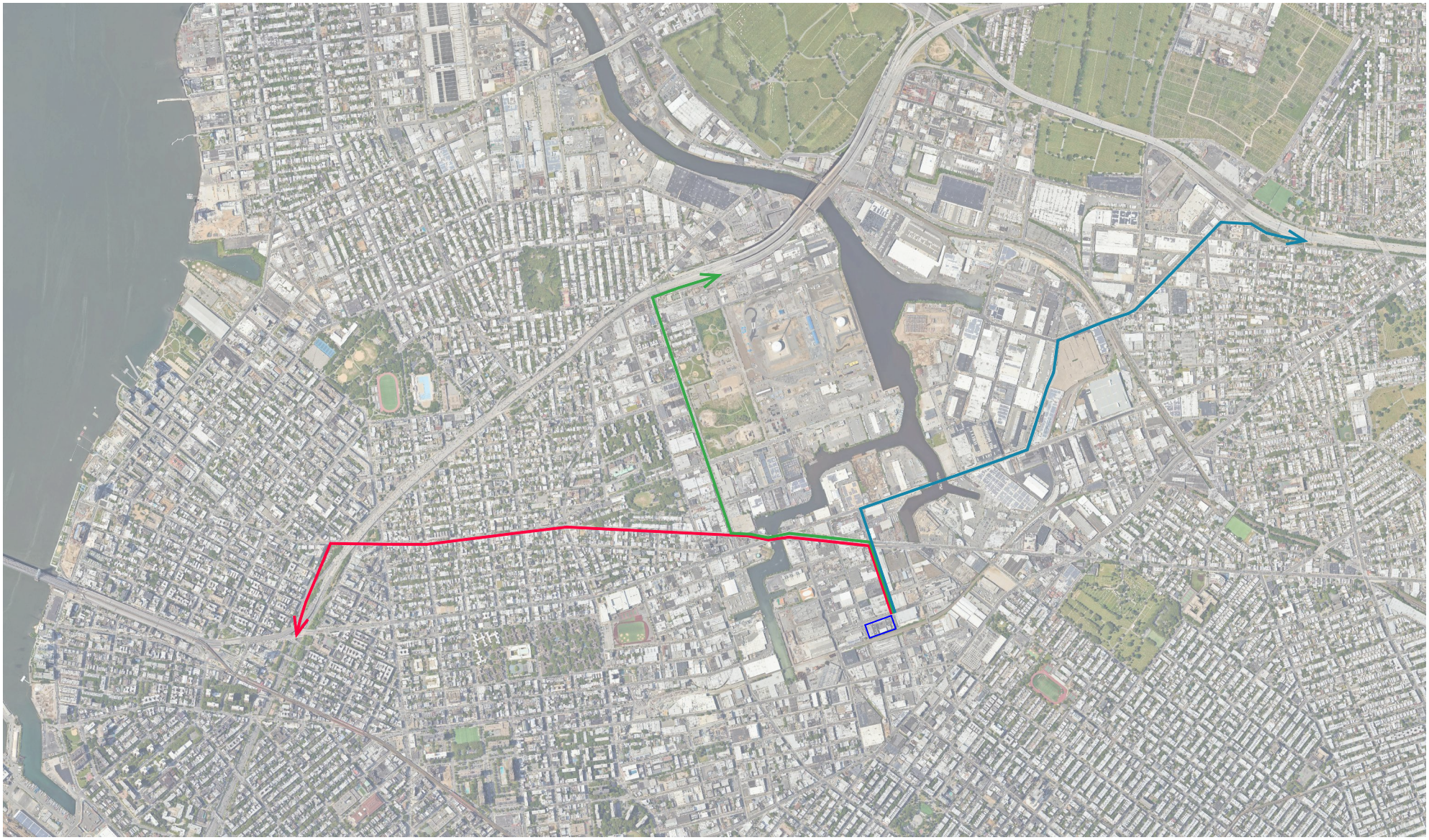
N

30' 0' 30' 60'
Approximate Scale

Title: **Cover System Figure**			
Figure: **12**	Prepared By: **AS**	Date: **February 2025**	Project Number: **ES22-387153**

Address:
NYSDEC BCP Site #C224258
140 Stewart Avenue and 111 Gardner Avenue
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



Legend and Notes:

- Site Boundary
- Route Towards I-278 Going South and Southwest
- Route Towards I-278 Going North and Northeast
- Route Towards I-495 Going East

N

1,000' 0' 1,000' 2,000'

Approximate Scale

Title: **Proposed Truck Route**			
Figure: **13**	Prepared By: **AS**	Date: **June 2024**	Project Number: **ES22-387153**

Address:
NYSDEC BCP Site #C224258
140 Stewart Avenue and 111 Gardner Avenue
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.

APPENDIX A: GREEN AND SUSTAINABLE REMEDIATION ELEMENTS

PSG

Climate Screening Checklist

Background Information

- Project Manager: Mandy Yau
- Site Name: Avant Gardner
- Site Number: C224258
- Site Location: 111 Gardner Avenue and 140 Stewart Avenue, Brooklyn, New York
- Site Elevation (average above sea level):
- ClimAID Region (Responding Climate Change in New York State (ClimAID) - NYSERDA): Region 4
- Remedial Stage/site classification:
  Active
- Contamination - Media Impacted/ Contaminants of Concern:
  Soil, vapor intrusion, groundwater - COCs: chlorinated VOCs, SVOCs, metals, PFAS
- Proposed/Current Remedy:
  CVOC soil hotspot excavation, in-site chemical remediation, on-site groundwater monitoring, on-site SSDS (two), composite cover system, institutional controls (easement)
- What is the predicted timeframe of the remedy? Will components of the remedy still be in place in 10+ years?
  Remediation will reportedly start in November 2024 and be completed in February 2025, will groundwater monitoring continuing until February 2027. Components of the remedy will still be in place in 10+ years.
- Is the site in proximity to any sensitive receptors? (e.g. wetlands, waterbodies, residential properties, hospitals, schools, drinking water supplies, etc.)
  No

Is the site in a disadvantaged community (DAC) or potential environmental justice area (PEJA) (Use DECinfolocator: DECinfo Locator (ny.gov))?

☒ **Yes** ☐ **No**

If the site is in a DAC or PEJA, will climate impacts be magnified? If yes, list how and why.

☐ **Yes** ☒ **No**

Should thresholds of concern be lowered to account for magnification of impacts? If yes, indicate how lower thresholds will be used in the screening.

☐ **Yes** ☒ **No**

Climate Screening Table*

Potential Climate Hazards	**Relevant to the Site Location** (Y/N/NA)[1]	**Projected Change** (Reference data source/Model)[3]	**Potential to Impact Remedy** (Y/N)	**Is remedy/site already resilient?** (Y/N)[4]
Precipitation	Potentially	N	N/A	N/A
Temperature[2] (Extreme Heat or Cold Weather Impacts)	Y	N	Y	N
Sea Level Rise	N	N/A	N/A	N/A
Flooding	N	N/A	N/A	N/A
Storm Surge	N	N/A	N/A	N/A
Wildfire	N	N/A	N/A	N/A
Drought	N	N/A	N/A	N/A
Storm Severity	Y	Y	Y	N
Landslides	N	N/A	N/A	N/A
Other Hazards:	Seismic	N	Y	N

* Links to potential data sources can be found on the following page

[1] If the first column is N --> The rest of the columns will be N/A, the hazard is not applicable to the site.

[2] Extreme Heat: periods of three or more days above 90°F- Extreme Cold: Individual days with minimum temperatures at or below 0 degrees F (NYSERDA ClimAID report)

[3] List the projected change in specific terms or units e.g. inches of rain fall, feet of sea level rise, etc.

[4] If final column is Y, provide reasoning, if the final column is N --> Climate Vulnerability Assessment (CVA) required.

Required Next Steps (If no further action is required, provide justification):

A telemetry system should be included in the remedy to protect again seismic activity, storm severity, and any extreme temperature fluctuations.

PSG

ENVIRONMENTAL FOOTPRINT ANALYSIS (EFA)

Avant Gardner Site

NYSDEC Site No. C224258

140 Stewart Avenue & 111 Gardner Avenue

Brooklyn, New York 11237

PSG Project Number: ES22-387153

July 18, 2024

Prepared for:

Stewart Purchaser, LLC, and

Gardner Purchaser LLC

130 East 7th Street, Floor 3

New York, New York 10009

Engineers who understand your business

TABLE OF CONTENTS

1.0 INTRODUCTION 1
2.0 SITE DESCRIPTION 2
2.1 Location and History of Site 2
2.2 Previous Uses and Current Occupation 2
3.0 REGULATORY FRAMEWORK 3
3.1 Relevant NYSDEC Guidelines and Standards 3
3.2 Compliance Requirements for the BCP 3
3.3 Green and Sustainable Remediation Practices 3
3.4 Regulatory Status of the Site 4
4.0 BASELINE ENVIRONMENTAL CONDITIONS 5
5.0 SELECTED REMEDIATION OPTION 6
6.0 IMPACT ASESSMENT 8
6.1 Environmental Impacts of Selected Remedy 8
6.1.1 Excavation 8
6.1.2 Soil Transportation 8
6.1.2 Soil Disposal 8
6.1.2 Groundwater Remediation 9
6.1.2 Monitoring Well Installations 10
6.2 Analysis of Air Emissions, Water Use, Soil Impacts, and Waste Generation 11
6.3 Greenhouse Gas Emissions and Energy Consumption 12
7.0 LIFECYCLE ASSESSMENT 14
7.1 Extraction and Production 14
7.2 Implementation 14
7.3 Use and Maintenance 15
7.4 End-of-Life-Management 15
8.0 MITIGATION STRATEGIES 16
8.1 Soil Excavation 16
8.2 Soil Transportation 17
8.3 Soil Disposal 17
8.4 Groundwater Remediation 17
8.5 Monitoring Well Installations 18

Appendices Appendix A: Supporting Data and Calculations

1.0 INTRODUCTION

PSG Engineering & Geology, D.P.C. (PSG) has prepared this Environmental Footprint Analysis (EFA) on behalf of Stewart Purchaser, LLC and Gardner Purchaser, LLC, the Avant Gardner site (the "Site") located at 140 Stewart Avenue and 111 Gardner Avenue in Brooklyn, New York.

This EFA has been prepared in accordance with the New York State Department of Environmental Conservation (NYSDEC) DER-10 Green Remediation policy, dated August 2010. The EFA supports the Remedial Action Work Plan for the Site.

The primary objective of this EFA is to evaluate the environmental impacts associated with the selected remedies for the Site. This analysis provides critical understanding of the environmental consequences of the chosen remediation approach, facilitating informed decision-making, ensuring alignment with regulatory standards and sustainability goals, and enabling lifecycle tracking of environmental performance.

The subsequent sections provide more site-specific details, regulatory framework, baseline environmental conditions, impact assessment, mitigation strategies, and recommendations derived from the analysis. This structured approach enables a comprehensive understanding of the environmental implications of the remediation activities, supporting the pursuit of sustainable outcomes aligned with the objectives of the NYSDEC Brownfield Cleanup Program (BCP).

2.0 SITE DESCRIPTION

2.1 Location and History of Site

The site, situated in the Williamsburg section of Brooklyn, New York, is identified as Block 2977 and Lots 1, 14, 15, and 16 on the New York City Tax Map. Spanning approximately 1.3 acres, the Site bounded by Meserole Street to the north, railroad tracks to the south, Gardner Avenue to the east, and Stewart Avenue to the west.

2.2 Previous Uses and Current Occupation

The Site is in the Williamsburg area of Brooklyn, New York, specifically Block 2977 and Lots 1, 14, 15, and 16 on the New York City Tax Map. It covers about 1.3 acres and is bordered by Meserole Street to the north, railroad tracks to the south, Gardner Avenue to the east, and Stewart Avenue to the west. Two one-story buildings occupy the site, one on the northeast corner (111 Gardner Avenue) and one on the southwest corner (140 Stewart Avenue), with most of the remaining areas covered in asphalt pavement.

The Site is currently an entertainment/music venue, but previously housed steel fabrication operations and a rubbish removal service. Onsite operations consist of an entertainment/music venue, office areas, full-service bars, temporary food stands and a ticket office. The "Brooklyn Mirage" is located in the courtyard between the two buildings. This area includes scaffolding consisting of a two-story catwalk and a four-story observation tower. This structure includes open bars, VIP seating areas, observation decks, and a stage. There are no enclosed areas intended for human occupation within the scaffolding structure.

From 2000 to 2013, Filco Carting operated a truck maintenance garage in a section of the 111 Gardner Avenue building and the surrounding paved area. They used degreasers, lubricants, hydraulic oils, and antifreeze stored in tanks, 55-gallon drums, and other containers for routine truck maintenance and repair. Previous assessments of the Site indicated poor housekeeping practices, raising concerns about the potential environmental impact of using and disposing of these hazardous materials.

Furthermore, historical activities include the operation of a chemical company/liquid bleach manufacturer from at least 1933 to 1992. Sanborn Maps indicate that manufacturing operations were concentrated in the southeastern portion of the parcel. Although regulatory records mention the storage of chemicals in aboveground storage tanks (ASTs) and drums from the 1980s onwards, limited information is available regarding the use, storage, or disposal of hazardous materials associated with chlorine manufacturing operations predating this period.

3.0 REGULATORY FRAMEWORK

3.1 Relevant NYSDEC Guidelines and Standards

The NYSDEC sets forth comprehensive guidelines and standards governing BCP. Key regulations include:

- **DER-31 Green Remediation Policy:** DER-31 Green Remediation Policy outlines principles and practices for implementing green and sustainable remediation strategies. It encourages the use of environmentally friendly practices to minimize the environmental footprint of remediation activities.
- **Part 375 Environmental remediation Policy:** Part 375 of the New York State regulations provides the framework for environmental remediation programs, including the BCP. It delineates the requirements for investigation, remediation, and site closure procedures.
- **DER-10 Technical Requirements for Site Investigation and Remediation:** NYSDEC issues technical guidance documents to assist in the implementation of remediation activities. These documents provide detailed instructions on sampling protocols, risk assessment methodologies, and remediation technologies.

3.2 Compliance Requirements for the BCP

Participants in the BCP must adhere to stringent regulatory requirements to achieve successful site cleanup and redevelopment:

- **Site Characterization**: Comprehensive site investigations are required to assess the nature and extent of contamination. Soil, groundwater, and other environmental media must be sampled to determine contaminant presence and concentration.
- **Remedial Action Work Plan (RAWP):** Participants must develop a RAWP outlining the proposed remediation approach, including objectives, cleanup standards, and technologies. Submission to NYSDEC for review and approval is mandatory.
- **Remedial Activities:** Remediation must be conducted according to the approved RAWP and applicable regulation, including proper handling, treatment, and disposal of contaminated media.
- **Monitoring and Reporting:** Implementation of monitoring programs to track remediation effectiveness and ensure compliance is necessary. Regular reporting to NYSDEC is mandatory to document progress and address any issues.

3.3 Green and Sustainable Remediation Practices

In addition to regulatory compliance, NYSDEC advocates for the use of green and sustainable remediation practices:

- **Pollution Prevention**: Reducing or eliminating hazardous substances at the source through pollution prevention measures is encouraged.
- **Energy Efficiency:** Utilizing energy-efficient technologies and renewable energy sources to minimize greenhouse gas emissions and the carbon footprint of remediation activities is

promoted.

- **Resource Conservation:** Reusing and recycling materials, as well as restoring natural resources, minimizes waste generation and promotes sustainable land use practices.

Adhering to these regulatory guidelines and incorporating green and sustainable remediation practices allows participants in the BCP to achieve effective site cleanup while minimizing environmental impacts and promoting long-term environmental stewardship.

3.4 Regulatory Status of the Site

The Site was enrolled in the BCP on October 30, 2017, and was listed on the Brownfield Cleanup Agreement (BCA) under site name Avant Gardner, NYSDEC Site No. C224258.

The Site was investigated in accordance with the scope of work presented in the NYSDEC-approved Remedial Investigation Work Plan (RIWP) dated April 2, 2019. The Remedial Investigation (RI) was conducted between May 2021 and June 2021, with additional RI work in April 2022 and June 2023. The initial RI report was submitted to NYSDEC in November 2021. Following comments from NYSDEC and NYSDOH issued on January 18, 2022, the report was resubmitted in September 2022. It was resubmitted again in March 2023 to address further comments from NYSDEC and NYSDOH issued on February 3, 2023, and January 23, 2023, respectively. NYSDEC approved the RIR via correspondence dated May 2, 2023.

PSG submitted a draft Remedial Action Work Plan (RAWP) to the NYSDEC in January 2024, which is currently under review by the NYSDEC and the New York State Department of Health (NYSDOH). On February 29, 2024, the NYSDEC announced a public comment period for the proposed plan for brownfield site contamination. The public comment period extends for 45 days, ending on April 14, 2024.

4.0 BASELINE ENVIRONMENTAL CONDITIONS

The subsurface soils at the Site consist of non-native fill materials, including bricks, concrete, gravel, metal, and wood, extending up to 18 feet below ground surface (bgs). This fill is underlain by native silty sand, sand, and clay reaching depths of up to 35 feet bgs. A noncontinuous peat layer was found in several soil borings at depths ranging between approximately 13 and 25 feet.

Groundwater is present at a depth of about 5 to 10 feet bgs and generally flows from east to west. Newtown Creek is located approximately 1,190 feet west of the Site.

Sampling data indicate chlorinated volatile organic compound (cVOC) soil hotspots near borings 7-B1 and 10-B6, where PCE concentrations of 2,200 milligrams per kilogram (mg/Kg) and 200 mg/Kg, respectively, were identified. These areas may be potential sources contributing to additional groundwater impacts. However, the remaining VOC exceedances from this and previous investigations do not appear to have significantly impacted groundwater. Remedial action is necessary to address cVOC-impacted soils in Areas of Concern (AOC) 7 and 10.

Shallow soils across the Site show historic fill-related impacts, but these exceedances have not significantly affected groundwater quality. The site soils are currently capped by existing buildings and pavement.

Vertical groundwater profiling in April 2022 showed increasing cVOC concentrations with depth at temporary well point 7-TW4, warranting remedial action for cVOC-impacted groundwater in AOC-7.

Subsurface investigations from 2016 to 2021 detected semi-volatile organic compounds (SVOCs), metals, dissolved metals, polychlorinated biphenyls (PCBs), and perfluorooctanoic acid (PFOA), and perfluorooctane sulfonic acid (PFOS) in shallow groundwater samples at concentrations marginally above Ambient Water Quality Guidelines (AWQG). These exceedances are likely due to urban fill material at the Site.

A soil vapor sample from the northwestern property boundary identified benzene, while another sample from the southern boundary near AOC-7 detected cVOCs, including cis 1,2-dichloroethene (c1,2-DCE), tetrachloroethene (PCE), and trichloroethene (TCE). No sensitive receptors are in close proximity to the elevated soil vapor concentrations, except for potentially occupied commercial properties across the unpaved railroad tracks.

5.0 SELECTED REMEDIATION OPTION

The objective of this RAWP is to achieve a Track 4 remedy for commercial use consisting of cVOC soil and groundwater hot spot remediation, and engineering and institutional controls to prevent exposure to subsurface contaminated media.

The following remedy is proposed for the Site:

1. **cVOC Soil Hot Spot Excavation:** PSG will conduct remedial excavations at AOC-7 and AOC-10 to remove cVOC-impacted soils above the water table in order to prevent further impacts to Site groundwater. The remedial excavations are expected to encompass an area approximately 550 sf at AOC-7 and 330 sf at AOC-10 and extend from the ground surface to the water table (encountered between 5 to 10 feet bgs), unless the results of post-excavation soil sampling indicate cVOC concentrations in remaining soils are in compliance with the NYSDEC Soil Cleanup Objective (SCO) for the protection of groundwater. Excavated soil will be temporarily stockpiled or staged on-Site in roll-offs, pending disposal to an appropriate off-site disposal facility. The remedial excavations will be backfilled with clean soil in accordance with NYSDEC regulations and the asphalt and concrete pavement will be restored. Prior to conducting the excavations, PSG will complete waste characterization sampling to obtain acceptance of the waste by the selected disposal facility. PSG will additionally obtain a Contained-In Determination from the NYSDEC for proper classification of the waste.

2. **In-Situ Chemical Remediation (ISCR):** PSG consulted with Provectus Environmental Products, Inc. (Provectus) to develop an appropriate chemical injection plan to address the cVOC impacts in soil and groundwater at the Site. Provect-IR® is a unique mixture of reagents that optimizes the in situ reductive dechlorination of chemicals present in soil and groundwater. Following placement of Provect-IR® into the subsurface environment, a number of physical, chemical and microbiological processes combine to create very strong reducing conditions that stimulate rapid and complete dechlorination of organic solvents and other recalcitrant compounds.

   Prior to backfilling the cVOC soil hot spot excavation at AOC-7, Provect-IR® will be applied in the open excavation at 2.5% of soil mass using a 3-foot long vertical target interval at the water table. A total of 1,000 pounds of Provect-IR® is estimated for the excavation.

   The ISCR program will also include using a direct push-drill rig to inject Provect-IR® into the subsurface to address the chlorinated solvent target area. The ISCR injection activities will include a 3,000 square foot target area with a maximum 110-foot-long vertical target zone, which is the effective limit of the direct-push equipment at the Site. The Provect-IR® will be applied at an average of 0.30% of soil mass, which will ensure effective reagent distribution while overcoming the reagent demand for contaminant destruction. The ISCR program will also incorporate bioaugmentation with Dehalococcoides (DHC; 29 liters) to ensure efficient cVOC destruction.

   The injections will include the application of approximately 34,800 pounds of Provect-IR® which will be mixed with approximately 1,728 gallons of water. Injections will be applied to 23 injection points across the Site. Six of these injection points, which cover a 400 square foot area, will be applied from 15 to 110 feet below ground surface (bgs), where the highest degree of cVOC impacts in groundwater

are located. The residual plume target zone is from 15 to 40 feet bgs and will be addressed via seventeen other injection points.

With the exception of a cVOC hot spot in AOC-7, relatively consistent cVOC impacts are present in intermediate and deep groundwater samples across the Site, with similar concentrations identified in offsite, upgradient borings and monitoring wells. These results indicate that the deep and intermediate zones have also been impacted by an offsite regional plume, which has migrating onto the Site. Based on prior measurements, the aquifer exhibits reducing biogeochemical conditions including dissolved oxygen (DO) at less than 1 part per million (ppm) and negative oxidation-reduction potential (ORP), and neutral pH. The objective of the ISCR program is to reduce the cVOC groundwater concentrations at AOC-7 such that cVOC concentrations are more consistent with sitewide conditions and to enhance natural attenuation for further reduction of the residual concentrations.

3. Monitoring Well Installations: PSG will install two downgradient monitoring well clusters to monitor the effectiveness of the ISCR program at AOC-7. Each monitoring well cluster will include a shallow well screened at 5-20 feet bgs, two intermediate wells screened at 40-45 feet bgs and 65-70 feet bgs, respectively, and a deep well screened at 105-110 feet bgs. One monitoring well cluster will be installed immediately west-northwest of the ISCR treatment area at AOC-7, and a second downgradient monitoring well cluster will be installed in the sidewalk or edge of pavement along Stewart Avenue, immediately west-northwest of AOC-3. In addition, PSG will install a shallow monitoring well near the southern property boundary, in the vicinity of RI temporary well 7-TW3.

4. Groundwater Sampling: PSG will conduct pre- and post-remediation groundwater sampling events to establish baseline conditions and monitor the effectiveness of the Remedial Action (RA). Groundwater monitoring will include sampling the new and existing monitoring wells prior to and approximately 30-days after completing the ISCR injections, and on a quarterly basis thereafter. PSG will conduct the groundwater sampling events in accordance with the procedures presented in the NYSDEC-approved RIWP for the Site.

5. Engineering Controls: The asphalt, concrete, and building slabs at the Site will be visually inspected to determine they are complete, with no significant cracks or damage, and can act as an engineering control to prevent exposure to remaining site impacts. Once confirmed, the composite cover system consisting of the existing concrete building slabs and asphalt pavement on exterior open areas of the Site will prevent human exposure to contaminated soils. In addition, the two existing SSDSs for the 140 Stewart Avenue and 111 Gardner Avenue buildings prevent exposure to VOC vapors by mitigating the potential for vapor intrusion from the subsurface into the Site buildings.

6. Institutional Controls – Environmental Easement: Proposed institutional controls include the recording of an environmental easement (EE) to prevent future exposure to any remaining contamination at the Site; publication of a Site Management Plan (SMP) for long-term management of residual contamination as required by the EE; and deed restrictions limiting the use of the Site for commercial/industrial activities, restricting the use of groundwater, and restricting unauthorized excavation or disturbance of the cover system.

6.0 IMPACT ASESSMENT

6.1 Environmental Impacts of Selected Remedy

6.1.1 Excavation

- **Energy Consumption and Emissions**
    - **Fossil Fuel Use**: Excavation equipment such as backhoes, front loaders, and excavators typically run on diesel, leading to significant fossil fuel consumption.
    - **Greenhouse Gas (GHG) Emissions**: The operation of heavy machinery releases carbon dioxide (CO2) and other GHGs, contributing to climate change.
- **Pollutant Release**
    - **Volatilization:** Disturbing contaminated soil can release volatile organic compounds (VOCs) into the air, posing health risks to workers and nearby communities.
    - **Dust Generation:** Excavation can produce dust, which may contain hazardous substances, leading to air quality issues.

6.1.2 Soil Transportation

- **Energy Consumption and Emissions**
    - **Fuel Use:** Loading and transporting contaminated soil typically requires trucks, which consume significant amounts of fuel.
    - **GHG Emissions:** Transportation emits CO2, nitrogen oxides (NOx), and particulate matter (PM), contributing to air pollution and climate change.
- **Road Infrastructure Impact**
    - **Wear and Tear:** Heavy trucks can cause damage to roads, leading to increased maintenance and associated environmental impacts from repair activities.
    - **Traffic Congestion:** Increased traffic from transportation activities can lead to congestion, further exacerbating emissions and energy use.

6.1.2 Soil Disposal

- **Landfill Impact**
    - **Space Consumption:** Disposing of contaminated soil in landfills takes up valuable landfill space, which is a finite resource.
    - **Leachate Generation:** Contaminated soil can produce leachate, which, if not properly managed, can contaminate groundwater and surface water.
- **Long-Term Environmental Impacts**

- **Future Land Use Restrictions:** Disposal sites may be restricted in future use, impacting land availability for other purposes.
- **Potential for Remediation:** If disposal sites are not adequately managed, they may require future remediation efforts, leading to additional environmental impacts.

6.1.2 Groundwater Remediation

In-situ chemical remediation (ISCR) using Provect-IR® zero-valent iron (ZVI) formula for VOC-impacted groundwater offers several green and sustainable environmental impacts. This technology is designed to address groundwater contamination effectively while minimizing environmental harm. Green and sustainable impacts are summarized below.

- **Reduced Carbon Footprint**
  - **Minimized Excavation and Transportation:** ISCR using Provect-IR® treats contamination directly in the groundwater, reducing the need for extensive excavation and transportation of contaminated materials. This leads to lower fossil fuel consumption and greenhouse gas emissions.
  - **Energy Efficiency:** The chemical processes involved in Provect-IR's use of zero-valent Iron (ZVI) are typically less energy-intensive compared to traditional remediation methods like pump-and-treat, further reducing the carbon footprint.
- **Enhanced Environmental Safety**
  - **Targeted Contaminant Degradation:** Provect-IR® effectively targets and degrades VOCs in situ, minimizing the risk of releasing harmful substances into the environment during treatment. This targeted approach reduces potential air and water pollution.
  - **Reduction of VOCs:** The ZVI promotes the reductive dechlorination of VOCs, transforming them into less harmful compounds and thereby reducing the release of volatile organic compounds into the atmosphere.
- **Water Resource Protection**
  - **Groundwater Quality Improvement:** Provect-IR® promotes the breakdown of VOC contaminants in groundwater, leading to improved water quality and reduced risk to human health and the environment.
  - **Preservation of Aquifers:** By treating contaminants in place, the natural structure and integrity of aquifers are preserved, ensuring the long-term sustainability of groundwater resources.
- **Ecosystem Preservation**

- **Minimal Physical Disturbance:** The application of Provect-IR® involves minimal physical disruption to the site, preserving local ecosystems and reducing habitat disturbance.
- **Biodegradable Additives:** The ZVI used in Provect-IR® is environmentally benign and does not introduce harmful chemicals into the environment, aligning with sustainable remediation practices.

- **Long-Term Sustainability**
  - **Permanent Contaminant Removal:** Provect-IR® facilitates the permanent degradation of VOCs rather than merely transferring them to another medium, providing a long-lasting solution to contamination issues.
  - **Long-Term Liabilities:** Effective in-situ remediation reduces future environmental liabilities and the need for ongoing management, contributing to long-term sustainability.

6.1.2 Monitoring Well Installations

Monitoring well installations and the management and disposal of investigation-derived waste (IDW) have several green and sustainable environmental impacts, and proper mitigation strategies can further enhance their sustainability.

- **Environmental Protection**
  - **Groundwater Monitoring:** Monitoring wells provide critical data on groundwater quality and contamination levels, enabling timely detection of pollutants and ensuring effective protection of water resources.
  - **Informed Decision-Making:** Data from monitoring wells help in making informed decisions about remediation strategies, leading to more effective and efficient cleanup efforts.

- **Reduced Environmental Disturbance**
  - **Minimal Footprint:** The installation of monitoring wells typically involves minimal land disturbance compared to large-scale excavation projects, preserving local ecosystems and habitats.
  - **Non-Invasive Techniques:** Modern drilling techniques for monitoring wells are designed to be minimally invasive, reducing the impact on the surrounding environment.

- **Controlled Waste Management**
  - **Safe Handling:** Proper management of IDW, which includes contaminated soil, water, and other materials, prevents the spread of contaminants to unaffected areas, protecting the environment and public health.
  - **Regulated Disposal:** Adhering to regulatory guidelines ensures that IDW is

disposed of in a manner that minimizes environmental impact, such as through secure landfills or treatment facilities.

- **Waste Minimization:** Effective waste management strategies can minimize the volume of waste generated, reducing the burden on disposal facilities and the environment.

6.2 Analysis of Air Emissions, Water Use, Soil Impacts, and Waste Generation

Air Emissions

The proposed remedial actions will utilize a variety of equipment, including a Geoprobe 7822 and/or Geoprobe 3126GT, Progressive Gravity Pump (CG-550), Inverter Generator, Ford F550 Utility Truck, Ford F550 Stake Truck, and Kubota SVL75 track loader. The use of gasoline-powered equipment will contribute to air emissions, primarily in the form of carbon dioxide (CO2), nitrogen oxides (NOx), and particulate matter (PM). The excavation and injection processes are expected to generate fugitive dust emissions, which will be mitigated through dust control measures such as water spraying. Additionally, transportation of equipment and materials to and from the Site will contribute to emissions from diesel and gasoline engines.

Water Use

The in-situ chemical remediation (ISCR) process will utilize approximately 1,728 gallons of water for mixing with Provect-IR®. Water use is expected to be minimal in the excavation and monitoring well installation activities. The water used for ISCR will be sourced from the local municipal supply, and measures will be taken to prevent unnecessary wastage.

Soil Impacts

The cVOC soil hot spot excavation will involve the removal of impacted soils at AOC-7 and AOC-10, totaling approximately 880 square feet of area and extending to the water table. This will result in the generation of contaminated soil that will be temporarily stockpiled on-site in roll-offs before off-site disposal. The soil impacts will be mitigated by backfilling the excavated areas with clean soil in accordance with NYSDEC regulations and restoring the asphalt and concrete pavement. The ISCR program will involve the injection of 34,800 pounds of Provect-IR® into the subsurface, which will alter the soil chemistry and enhance the reductive dechlorination of cVOCs.

Waste Generation

The excavation process will generate contaminated soil that requires proper characterization, containment, and disposal. The exact volume of waste soil will depend on the extent of contamination identified during post-excavation sampling. Additionally, the ISCR process will generate waste materials associated with the mixing and injection of chemical reagents. All waste generated will be managed in accordance with state and federal regulations, ensuring safe and environmentally responsible disposal.

In summary, the proposed remedial actions are designed to address cVOC contamination in soil and groundwater effectively while managing the environmental footprint through controlled air emissions, minimal water use, mitigated soil impacts, and responsible waste generation practices. The project will

adhere to regulatory requirements and implement best practices to minimize the overall environmental impact.

6.3 Greenhouse Gas Emissions and Energy Consumption

This section provides an analysis of the greenhouse gas (GHG) emissions and energy consumption associated with the proposed remedial actions at the Site. The analysis is divided into two components: Component 1, Drilling and ISCR Injection Activities, and Component 2, Contaminated Soil Excavations and Disposal. Detailed assumptions and calculations supporting this analysis are provided in the EPA Spreadsheets for Environmental Footprint Analysis (SEFA), included as **Appendix A**.

Component 1: Drilling and ISCR Injection Activities

Equipment and Energy Consumption:

- **Geoprobe 7822 and/or Geoprobe 3126GT:** Used for temporary point installation and monitoring well installations.
- **Progressive Gravity Pump (CG-550), Gasoline:** Used for ISCR injections.
- **Inverter Generator, Gasoline, 1800 W:** Provides power for on-site activities.
- **Ford F550 Utility Truck and Ford F550 Stake Truck:** Used for transportation of equipment and materials to the Site.
- **Kubota SVL75 Track Loader (Skid Steer with Forks):** Used for material handling.

Operating Hours and Fuel Consumption:

- Operations conducted 8 hours a day, 5 days a week, over approximately 5 workdays.
- Fuel Consumption Estimates:
    - **Geoprobe 7822/3126GT:** Approximately 3.54 gallons per hour.
    - **Kubota SVL75 Track Loader:** Approximately 3.36 gallons per hour.
    - **CG-550 Pump:** Approximately 1.10 gallons per hour.
    - **Inverter Generator:** Approximately 0.00036 gallons per hour.
    - **Walk Behind Saw:** Approximately 0.32 gallons per hour.
    - **Utility Trucks:** Approximately 417.2 gallons total.
    - **Partner Staff**: Approximately 140.50 gallons total.

Component 2: Contaminated Soil Excavations and Disposal

Equipment and Energy Consumption:

- **Excavator, Skid Steer, and Rammax Soil Compactor:** Used for soil excavation and compaction.
- **Pick-Up Trucks (unleaded gasoline):** Used for transportation of personnel and small equipment.
- **Labor Crew:** Five-man crew commuting approximately 90 miles per workday per person.

- **Heavy Equipment:** Delivered to the site and remaining for the project duration.

Operating Hours and Fuel Consumption:

- Operations conducted 8 hours a day, 5 days a week, over approximately 9 workdays.
- Fuel Consumption Estimates:
    - **Excavator:** Approximately 5.83 gallons per hour.
    - **Skid Steer:** Approximately 4.47 gallons per hour.
    - **Rammax Soil Compactor:** Approximately 1.03 gallons per hour.
    - **Inverter Generator:** 0.00036 gallons per hour
    - **Pick-Up Trucks:** Estimated 20 miles per gallon, traveling approximately 90 miles per day per person.
    - **On-Site Staff:** Approximately 190.50 gallons total.
    - **PSG Employee:** Approximately 80.30 gallons total.

Greenhouse Gas Emissions:

PSG has estimated the total fuel consumption and associated greenhouse gas (GHG) emissions for each piece of equipment based on their operating hours and fuel consumption rates. The total GHG emissions were calculated using the EPA's SEFA. According to these calculations, the total greenhouse gas emissions are approximately 37.5 tons of carbon dioxide equivalents (CO2e) for Component 1 and 29.8 tons of CO2e for Component 2, for a total of 67.3 tons CO2e. For detailed information, please refer to **Appendix A** for the SEFA.

7.0 LIFECYCLE ASSESSMENT

This lifecycle assessment (LCA) evaluates the environmental impacts associated with the chosen remedial strategy, which includes the excavation, transportation, and disposal of VOC-contaminated soil, groundwater remediation using Provect-IR® in-situ chemical reduction (ISCR), and the installation and monitoring of wells. The LCA follows the stages of extraction, production, implementation, and end-of-life management.

7.1 Extraction and Production

- **Materials and Resources**
    - **Excavation:** Use of diesel-powered heavy machinery such as excavators, bulldozers, and loaders.
    - **Transportation:** Diesel-powered trucks for soil transportation to disposal sites.
    - **Disposal:** Construction and maintenance of secure landfill sites.
    - **Provect-IR® ISCR:** Manufacturing of zero-valent iron (ZVI) and other reagents used in ISCR.
    - **Monitoring Wells:** Production of PVC, stainless steel, and other materials for well construction.
- **Environmental Impacts**
    - **Resource Depletion:** Extraction of raw materials for machinery, trucks, and well components.
    - **Energy Consumption:** Significant energy use in the manufacturing of ZVI and well materials.
    - **Emissions:** GHG emissions from the production of materials and the operation of equipment.
    - **Water Use:** Water consumption in the production and manufacturing processes.

7.2 Implementation

- **Activities**
    - **Excavation:** Excavating and removing VOC-contaminated soil.
    - **Transportation:** Hauling contaminated soil to disposal sites.
    - **Disposal:** Securely disposing of contaminated soil in lined landfills.
    - **Groundwater Remediation:** Injecting Provect-IR® ISCR into contaminated groundwater zones.
    - **Monitoring Wells:** Drilling and installing monitoring wells, followed by periodic sampling and analysis.

- **Environmental Impacts**
    - **GHG Emissions:** Emissions from the operation of diesel-powered machinery and trucks.
    - **Soil Disruption:** Physical disturbance of soil structure and potential erosion.
    - **Air Quality:** Dust and VOC emissions during soil excavation and transport.
    - **Water Quality:** Potential leachate generation at disposal sites; ISCR reducing VOC contamination in groundwater.
    - **Waste Generation:** Production of investigation-derived waste (IDW) during well installation and maintenance.

7.3 Use and Maintenance

- **Ongoing Activities**
    - **Monitoring:** Regular sampling and analysis of groundwater via monitoring wells.
    - **Maintenance:** Upkeep of monitoring wells and remediation systems.
- **Environmental Impacts**
    - **Energy Use:** Energy consumption for periodic sampling and laboratory analysis.
    - **Waste:** Generation of IDW from periodic well sampling and maintenance activities.
    - **Operational Emissions:** Emissions from vehicles and equipment used in monitoring and maintenance.

7.4 End-of-Life-Management

- **Activities**
    - **Site Closure:** Decommissioning of monitoring wells and remediation systems once remediation goals are achieved.
    - **Waste Disposal:** Proper disposal of decommissioned well materials and any remaining IDW.
- **Environmental Impacts**
    - **Resource Recovery:** Potential recycling of well materials (e.g., metals).
    - **Waste Management:** Secure disposal of non-recyclable materials.
    - **Land Restoration:** Restoring the site to its natural state, which may involve re-vegetation and soil stabilization.

8.0 MITIGATION STRATEGIES

The environmental impacts of contaminated soil excavation, transportation, and disposal can be mitigated through sustainable practices. Implementing renewable energy, efficient transportation logistics, and innovative disposal methods are essential strategies for minimizing the environmental footprint of these activities.

8.1 Soil Excavation

- **Efficient Equipment Use**
    - **Limit Idling:** Minimize the idle time of excavation equipment to reduce unnecessary fuel consumption and emissions.
    - **Regular Maintenance:** Keep machinery well-maintained to ensure optimal performance and fuel efficiency. Regular servicing reduces emissions and enhances the lifespan of equipment.
- **Soil Management Practices**
    - **Erosion Control:** Implement measures such as silt fences, sediment barriers, and re-vegetation to control soil erosion.
    - **Minimize Disturbance:** Excavate only the necessary areas to limit soil disturbance and preserve the surrounding environment. Use precision excavation techniques to target contaminated areas more accurately.
- **Dust Suppression**
    - **Water Sprays:** Regularly spraying water over excavation sites can help suppress dust, preventing airborne contaminants from affecting air quality.
    - **Dust Barriers:** Erect barriers or windbreaks around the site to contain dust and prevent it from spreading to surrounding areas.
- **Operational Efficiency**
    - **Optimize Operations:** Plan excavation activities to maximize efficiency, such as scheduling tasks during favorable weather conditions to reduce delays and additional fuel consumption.
    - **Training Operators:** Ensure that equipment operators are trained in eco-friendly practices, such as smooth driving techniques and proper use of equipment, to minimize environmental impact.
- **Use of Eco-Friendly Materials**
    - **Biodegradable Lubricants:** Use biodegradable and environmentally friendly lubricants and hydraulic fluids in machinery to reduce the risk of soil and water contamination in case of leaks or spills.

- **Low-Emission Fuels:** When possible, use lower-emission fuels such as biodiesel, which can reduce the carbon footprint of excavation activities.

- **Community Air Monitoring Program (CAMP)**
  - **Air Quality Monitoring:** Regularly monitor air quality around the excavation site to detect and address any potential pollutant emissions promptly.

8.2 Soil Transportation

- **Efficient Routing:** Planning the most efficient routes can minimize fuel consumption and emissions.
- **Low-Emissions Vehicles:** Using vehicles with better fuel efficiency or alternative fuels can reduce environmental impact.
- **Load Optimization:** Maximizing the load capacity of each trip can reduce the number of trips required, thereby lowering overall emissions.

8.3 Soil Disposal

- **Waste Management**
  - **Proper Disposal:** Ensure that any waste generated during excavation, such as non-contaminated soil or debris, is disposed of in an environmentally responsible manner, following local regulations and guidelines.
  - **Recycling:** Where possible, recycle materials such as concrete or metals encountered during excavation, reducing the demand for new raw materials and conserving landfill space.

8.4 Groundwater Remediation

To maximize the green and sustainable impacts of using Provect-IR® for in-situ chemical remediation of VOC-impacted groundwater, the following mitigation strategies can be employed:

- **Optimize Treatment Processes**
  - **Site-Specific Assessments:** Thorough site assessments were conducted to tailor the application of Provect-IR® ensuring optimal distribution and contact with VOC contaminants. This increases the efficiency and effectiveness of the treatment.
  - **Controlled Injections:** Use controlled injection techniques to precisely deliver the ZVI formula, minimizing excess use of materials and reducing the potential for unintended environmental impacts.

- **Monitoring and Maintenance**
  - **Continuous Monitoring:** Implement comprehensive monitoring programs to track the progress of remediation and detect any potential adverse effects early. This includes monitoring groundwater quality to ensure contaminants are effectively degraded.

- **Adaptive Management:** Be prepared to adjust remediation strategies based on monitoring results to address any emerging issues and optimize treatment performance.

8.5 Monitoring Well Installations

- **Sustainable Drilling Practices:**
  - **Use of Eco-Friendly Drilling Fluids:** Utilize biodegradable and non-toxic drilling fluids to minimize environmental contamination.
  - **Low-Impact Equipment:** Employ low-impact drilling rigs and techniques to reduce soil disturbance and preserve local ecosystems.
- **Site Selection and Planning**
  - **Strategic Placement:** Carefully select well locations to maximize data quality while minimizing ecological disruption.
  - **Minimized Land Use:** Plan well installations to use the smallest footprint necessary, preserving as much natural land as possible.
- **Pollution Prevention**
  - **Containment Measures:** Implement measures to prevent spills and leaks during well installation, such as secondary containment for equipment and materials.
  - **Proper Sealing and Abandonment:** Ensure that monitoring wells are properly sealed and abandoned after use to prevent contamination pathways.
- **IDW Characterization and Segregation**
  - **Accurate Identification:** Characterize and segregate IDW based on contamination levels to ensure appropriate handling and disposal. Separate hazardous from non-hazardous waste.
  - **Documentation:** Maintain detailed records of waste types, quantities, and disposal methods to ensure compliance with environmental regulations.
  - **Containment and Storage:** Use secure, labeled containers for temporary storage of IDW to prevent leaks and spills. Employ secondary containment measures where necessary.
- **Sustainable Waste Disposal**
  - **Environmentally Safe Facilities:** Dispose of IDW in secure, environmentally safe landfills or disposal facilities designed to prevent leachate and gas emissions.
  - **Transportation:** Ensure safe transportation of IDW to disposal or treatment facilities using properly licensed and equipped vehicles to prevent accidents and spills.

APPENDIX A: SUPPORTING DATA AND CALCULATIONS

PSG

Greenhouse Gas and Energy Consumption Assumptions
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner and 140 Stewart Avenue
Brooklyn, New York

Component 1				Component 2			
Equipment	Fuel Usage Rate [gallons/hr]	Fuel Used [gallons]	Fuel Type	**Equipment**	Fuel Usage Rate [gallons/hr]	Fuel Used [gallons]	Fuel Type
Geoprobe 7822/3126GT	3.54	992.48	Diesel	JD 160 Excavator	5.83	933.10	Diesel
Loader Kubota SVL75	3.36	941.59	Diesel	JD 331 Skid Steer Loader	4.47	715.08	Diesel
CG-550 Pump	1.10	307.00	Gasoline	Rammax Soil Compactor	1.03	164.40	Diesel
Walk Behind Asphalt Saw	0.32	89.25	Diesel	Inverter Generator	0.00036	0.0576	Gasoline
Inverter Generator	0.00036	0.1	Gasoline				
Equipment Transport	--	16.7*	Diesel	Equipment Transport	--	16.7*	Diesel
Equipment Transport Total	--	83.5	Diesel	Equipment Transport Total	--	50.1	Diesel
Personnel Trasportation	Fuel Used [gallons]	Fuel Type		**Personnel Trasportation**	Fuel Used [gallons]	Fuel Type	
On-Site Staff	333.3	Gasoline		On-Site Staff	190.5	Gasoline	
Partner Employee	159.6	Gasoline		Partner Employee	91.2	Gasoline	
				Soil Transportation	Quantity [Tons]	Fuel Used [gallons]	Fuel Type
				AOC-7	5.90	90	Diesel
				AOC-8	3.51	90	Diesel
				Backfill	9.40	45	Diesel
Total Greenhouse Gas Emissions [Tons CO2]							
37.5				**29.8**			
67.3							

Notes:
*=per equipment piece

Environmental Footprint Summary

Core Element		Metric	Unit of Measure	Footprint						
				Component 1: ISCR Injection and Monitoring Well Installation	Component 2: Contaminated Soil Excavations and Disposal	< Component 3 >	< Component 4 >	< Component 5 >	< Component 6 >	Total
Materials & Waste	M&W-1	Refined materials used on-site	Tons	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	M&W-2	% of refined materials from recycled or reused material	%							
	M&W-3	Unrefined materials used on-site	Tons	0.000	18.826	0.000	0.000	0.000	0.000	18.8
	M&W-4	% of unrefined materials from recycled or reused material	%		50.0%					50.0%
	M&W-5	On-site hazardous waste disposed of off-site	Tons	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	M&W-6	On-site non-hazardous waste disposed of off-site	Tons	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	M&W-7	Recycled or reused waste	Tons	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	M&W-8	% of total potential waste recycled or reused	%							
Water (used on-site)	W-1	Public water use	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	W-2	Groundwater use	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	W-3	Surface water use	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	W-4	Reclaimed water use	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	W-5	Storm water use	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	W-6	User-defined water resource #1	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	W-7	User-defined water resource #2	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	W-8	Wastewater generated	MG	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy	E-1	Total energy used (on-site and off-site)	MMBtu	489.6	378.4	0.0	0.0	0.0	0.0	868.0
	E-2	Energy voluntarily derived from renewable resources								
	E-2A	On-site renewable energy generation or use + on-site biodiesel use + biodiesel and other renewable resource use for transportation	MMBtu	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	E-2B	Voluntary purchase of renewable electricity	MWh	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	E-3	Voluntary purchase of RECs	MWh	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	E-4	On-site grid electricity use	MWh	0.126	0.625	0.000	0.000	0.000	0.000	0.8
Air	A-1	On-site NOx, SOx, and PM emissions	Pounds	452.4	209.7	0.0	0.0	0.0	0.0	662.0
	A-2	On-site HAP emissions	Pounds	0.1	0.1	0.0	0.0	0.0	0.0	0.2
	A-3	Total NOx, SOx, and PM emissions	Pounds	550.8	318.1	0.0	0.0	0.0	0.0	868.9
	A-3A	Total NOx emissions	Pounds	408.1	276.1	0.0	0.0	0.0	0.0	684.1
	A-3B	Total SOx emissions	Pounds	21.9	19.4	0.0	0.0	0.0	0.0	41.3
	A-3C	Total PM emissions	Pounds	120.8	22.6	0.0	0.0	0.0	0.0	143.4
	A-4	Total HAP emissions	Pounds	4.5	3.3	0.0	0.0	0.0	0.0	7.8
	A-5	Total greenhouse gas emissions	Tons CO2e*	37.5	29.8	0.0	0.0	0.0	0.0	67.3
Land & Ecosystems		Qualitative Description								

** Total greenhouse gases emissions (in CO2e) include consideration of CO2, CH4, and N2O (Nitrous oxide) emissions.*
"MMBtu" = millions of Btus
"MG" = millions of gallons
"CO2e" = carbon dioxide equivalents of global warming potential

The above metrics are consistent with EPA's Methodology for Understanding and Reducing a Project's Environmental Footprint (EPA 542-R-12-002), February 2012

Notes:

"MWh" = megawatt hours (i.e., thousands of kilowatt-hours or millions of Watt-hours)
"Tons" = short tons (2,000 pounds)

APPENDIX B: DATA USABILITY SUMMARY REPORT

PSG

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

August 16, 2023

Mr. David R. Lent, P.G.
Senior Project Manager
Partner Engineering and Science, Inc.
222 Bloomingdale Road, Suite 303
White Plains, NY 10605

Re: Avant Gardner Site, Brooklyn, NY
Data Validation Report
June 2023 Soil and Ground Water Samples

Dear Mr. Lent:

The data usability summary report (DUSR) and data validation review for the Avant Gardner site, Brooklyn, NY, June 2023 soil and ground water sampling event are attached to this letter. The data are mostly acceptable for Alpha Analytical, SDG Number: L2335541 with some issues that are identified and discussed in the DUSR and validation summaries. There were data that were rejected (R) in the data pack. The reason for rejecting data is outlined in the DUSR and QA/QC review. The data is rejected based solely on the validation guidance criteria. The rejected data may be determined to be acceptable to the user based on additional information that is not contained in the data validation criteria.

A list of common data validation acronyms is attached to this letter to assist your interpretation the validation summaries. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist Partner Engineering and Science, Inc.

Sincerely,
Alpha Geoscience

Donald Anné
Senior Chemist

DCA/bms
Via email

z:\projects\2021\21600-21620\21607-avant gardner\temp-review\avant gardner-231.ltr.docx

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

Data Usability Summary Report
for Alpha Analytical Labs
SDG Number: L2335541

49 Soil Samples, 1 Soil Field duplicate,
and 7 Ground Water
Collected June 20, 2023

Prepared by: Donald Anné
August 16, 2023

The data package contained the documentation as required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data pack contained the results of volatile analyses for 31 soil samples; the results of TAL metal analyses for 18 soil samples and 1 field duplicate; the results of TCLP metal analyses for 2 soil samples; and the results of total and dissolved TAL metal analyses for 7 ground water samples

The overall performances of the analyses are acceptable. Alpha Analytical Labs did fulfill the requirements of the analytical methods.

The data are mostly acceptable with some issues that are identified in the accompanying data validation reviews. The following data were qualified:

- The positive volatile results for 4 compounds were qualified as “estimated, biased high” (J+) for sample 7-B1W (1.5-2) because 1 of 4 surrogate recoveries was above control limits for the sample.

- The positive volatile results for 16 compounds were qualified as “estimated, biased high” (J+) for sample 7-B1W (1.5-2)RE2 because 2 of 4 surrogate recoveries were above control limits for the sample.

- The positive volatile results for 27 compounds were qualified as “estimated, biased high” (J+) for sample 7-B1E (5.5-6) because 1 of 4 surrogate recoveries was above control limits for the sample.

- The positive volatile results for 22 compounds were qualified as “estimated, biased high” (J+) for sample 7-B1S (5.5-6) because 1 of 4 surrogate recoveries was above control limits for the sample.

679 Plank Road ● Clifton Park, New York 12065 ● (518) 348-6995 ● Fax (518) 348-6966
www.alphageoscience.com

- The positive volatile results for 23 compounds were qualified as "estimated, biased high" (J+) for sample 7-B1S (5.5-6)RE because 2 of 4 surrogate recoveries were above control limits for the sample.

- The "not detected" volatile results for 14 compounds were qualified as "estimated" (UJ) for sample 7-B1W (1.5-2) because the areas for the internal standard used to quantitate these compounds was below control limits, but not below 25%.

- The "not detected" volatile results for 26 compounds were qualified as "rejected, unusable" (R) for sample 7-B1W (1.5-2) because the area for the internal standard used to quantitate these compounds was below control limits and below 25%.

- The volatile results for tetrachloroethene and cis-1,2-dichloroethene for sample 7-B1W (1.5-2)RE were quantitated using data that were extrapolated beyond the highest calibration standard and flagged "E" by the laboratory. The results for compounds marked "E" were qualified as estimated (J).

- The volatile results for tetrachloroethene for samples 7-B1W (4.5-5), 7-B1WW (1-1.5), 10-B6N (1.5-2), and 10-B6N (4.5-5) were quantitated using data that were extrapolated beyond the highest calibration standard and flagged "E" by the laboratory. The results for tetrachloroethene marked "E" were qualified as estimated (J).

- The "not detected" volatile results for 1,1,2,2-tetrachloroethane, naphthalene, and 1,2,4,5-tetramethylbenzene were qualified as "estimated" (UJ) for samples 7-B1W (1.5-2)RE2 and 7-B1W (4.5-5) because 1 or 2 percent recoveries for these compounds were below QC limits, but not below 10% in the associated soil LCS/LCSD.

- The "not detected" volatile results for 1,1,2,2-tetrachloroethane and 1,2,4,5-tetramethylbenzene were qualified as "estimated" (UJ) for samples 7-B1W (6.5-7), 7-B1S (4-4.5), 10-B6W (4.5-5), and 10-B6W (7.5-8) because 1 of 2 percent recoveries for these compounds were below QC limits, but not below 10% in the associated soil LCS/LCSDs.

- The "not detected" volatile results for 1,1,2,2-tetrachloroethane were qualified as "estimated" (UJ) for the following samples because 1 or 2 percent recoveries for 1,1,2,2-tetrachloroethane were below QC limits, but not below 10% in the associated soil LCS/LCSDs.

7-B1E (1.5-2)	7-B1E (5.5-6)	7-B1N (1.5-2)	7-B1S (1.5-2)
7-B1S (5.5-6)	7-B1S (5.5-6)RE	10-B6W (1.5-2)	

- The positive volatile results for 1,2,4,5-tetramethylbenzene were qualified as "estimated, biased low" (J-) for samples 7-B1E (1.5-2), 7-B1N (1.5-2), 7-B1S (1.5-2), and 10-B6W (1.5-2) because 1 of 2 percent recoveries for 1,2,4,5-tetramethylbenzene were below QC limits, but not below 10% in the associated soil LCS/LCSDs.

- The "not detected" volatile results for vinyl acetate were qualified as "estimated" (UJ) for samples 7-B1WW (4-4.5), 7-B1WW (4.5-5), 7-B1SS (5-5.5), 10-B6WW (4.5-5), and 10-B6EE (1.5-2) because 1 of 2 percent recoveries for vinyl acetate was below QC limits, but not below 10% in the associated soil LCS/LCSDs.

- The positive total metal results for arsenic were qualified as estimated, biased high (J+) for all 17 soil samples and the field duplicate because 2 of 2 percent recoveries for arsenic were above control limits in the associated soil MS/MSD sample.

- The positive metal results for antimony were qualified as estimated, biased high (J+) for all 17 soil samples and the field duplicate because 1 of 2 percent recoveries for antimony was above control limits in the associated soil MS/MSD sample.

- The positive metal results for barium and chromium were qualified as estimated, biased low (J-) for all 17 soil samples and the field duplicate because 1 of 2 percent recoveries for barium and chromium were below control limits, but not below 10% in the associated soil MS/MSD sample.

- The positive metal results for mercury were qualified as estimated, biased high (J+) for the following samples because the percent recovery for mercury was above the control limits in the associated soil spike sample.

8B-1NN (1.5-2.0)	8B-1NN (4.5-5.0)	8B-1NN (6.0-6.5)	8B-1SS (1.5-2.0)
8B-1SS (6.5-7.0)	8B-1WW (1.0-1.5)	8B-1WW (4.5-5.0)	8B-1WW (6.0-6.5)

- The positive metal results for 11 metals were qualified as estimated (J) in samples 8B-1W (6.5-7.0) and 8B-1W (6.5-7.0) DUP because the relative percent differences for these 11 metals were above the allowable maximum in the soil field duplicate pair 8B-1W (6.5-7.0)/8B-1W (6.5-7.0) DUP.

- The positive dissolved metal result for mercury was qualified as estimated (J) for sample 8B-1NN-GW because the relative percent difference for mercury was above the allowable maximum in the associated aqueous dissolved duplicate sample.

- The positive total metal results for magnesium were qualified as estimated, biased low (J-) for samples 8B-1NN-GW, 8B-1SS-GW, and 8B-1WW-GW because 1 of 2 percent recoveries for magnesium was below control limits, but not below 30% in the associated aqueous batch total MS/MSD sample.

- The positive total metal results for calcium, potassium, and sodium were qualified as estimated (J) for all 7 ground water samples because %Ds for calcium, potassium, and sodium were above the allowable maximum in the associated aqueous batch total serial dilution sample and results were above the RLs.

- The positive total metal results for magnesium were qualified as estimated (J) for samples 8B-1N-GW, 8B-1E-GW, 8B-1S-GW, and 8B-1W-GW because %D for magnesium was above the allowable maximum in the associated aqueous batch total serial dilution sample and results were above the RLs.

- The positive dissolved metal result for potassium was qualified as "estimated" (J) in sample 8B-1SS-GW because the dissolved concentration was greater than the total concentrations plus 10%.

- The positive dissolved metal result for sodium was qualified as "estimated" (J) in sample 8B-1E-GW because the dissolved concentration was greater than the total concentrations plus 10%.

All data that are not qualified rejected, unusable (R) are considered usable with estimated (J, J-, J+, or UJ) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.

Qualified Data Section

Results Summary
Form 1
Volatile Organics by EPA 5035 High

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-26	Date Collected	: 06/20/23 08:50
Client ID	: 7-B1W (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/27/23 21:19
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230627N09	Instrument ID	: VOA131
Sample Amount	: 4.7 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 93
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	300	140	U	
75-34-3	1,1-Dichloroethane	ND	61	8.8	U	
67-66-3	Chloroform	ND	91	8.5	U	
56-23-5	Carbon tetrachloride	ND	61	14.	U	
78-87-5	1,2-Dichloropropane	ND	61	7.6	U	
124-48-1	Dibromochloromethane	ND	61	8.5	U	UJ
79-00-5	1,1,2-Trichloroethane	ND	61	16.	U	UJ
127-18-4	Tetrachloroethene	550	30	12.		J+
108-90-7	Chlorobenzene	ND	30	7.7	U	UJ
75-69-4	Trichlorofluoromethane	ND	240	42.	U	
107-06-2	1,2-Dichloroethane	ND	61	16.	U	
71-55-6	1,1,1-Trichloroethane	ND	30	10.	U	UJ
75-27-4	Bromodichloromethane	ND	30	6.6	U	
10061-02-6	trans-1,3-Dichloropropene	ND	61	17.	U	UJ
10061-01-5	cis-1,3-Dichloropropene	ND	30	9.6	U	
542-75-6	1,3-Dichloropropene, Total	ND	30	9.6	U	
563-58-6	1,1-Dichloropropene	ND	30	9.7	U	
75-25-2	Bromoform	ND	240	15.	U	R
79-34-5	1,1,2,2-Tetrachloroethane	ND	30	10.	U	R
71-43-2	Benzene	ND	30	10.	U	
108-88-3	Toluene	ND	61	33.	U	UJ
100-41-4	Ethylbenzene	ND	61	8.6	U	UJ
74-87-3	Chloromethane	ND	240	57.	U	
74-83-9	Bromomethane	ND	120	35.	U	
75-01-4	Vinyl chloride	ND	61	20.	U	

Results Summary
Form 1
Volatile Organics by EPA 5035 High

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-26	Date Collected	: 06/20/23 08:50
Client ID	: 7-B1W (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/27/23 21:19
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230627N09	Instrument ID	: VOA131
Sample Amount	: 4.7 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 93
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	120	28.	U	
75-35-4	1,1-Dichloroethene	ND	61	14.	U	
156-60-5	trans-1,2-Dichloroethene	ND	91	8.4	U	
79-01-6	Trichloroethene	48	30	8.4		J+
95-50-1	1,2-Dichlorobenzene	ND	120	8.8	U	R
541-73-1	1,3-Dichlorobenzene	ND	120	9.0	U	R
106-46-7	1,4-Dichlorobenzene	ND	120	10.	U	R
1634-04-4	Methyl tert butyl ether	ND	120	12.	U	UJ
179601-23-1	p/m-Xylene	ND	120	34.	U	UJ
95-47-6	o-Xylene	ND	61	18.	U	
1330-20-7	Xylenes, Total	ND	61	18.	U	
156-59-2	cis-1,2-Dichloroethene	75	61	11.		J+
540-59-0	1,2-Dichloroethene, Total	75	61	8.4		J+
74-95-3	Dibromomethane	ND	120	14.	U	
100-42-5	Styrene	ND	61	12.	U	
75-71-8	Dichlorodifluoromethane	ND	610	56.	U	
67-64-1	Acetone	ND	610	290	U	
75-15-0	Carbon disulfide	ND	610	280	U	
78-93-3	2-Butanone	ND	610	140	U	
108-05-4	Vinyl acetate	ND	610	130	U	
108-10-1	4-Methyl-2-pentanone	ND	610	78.	U	UJ
96-18-4	1,2,3-Trichloropropane	ND	120	7.7	U	R
591-78-6	2-Hexanone	ND	610	72.	U	UJ
74-97-5	Bromochloromethane	ND	120	12.	U	
594-20-7	2,2-Dichloropropane	ND	120	12.	U	

Results Summary
Form 1
Volatile Organics by EPA 5035 High

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-26	Date Collected	: 06/20/23 08:50
Client ID	: 7-B1W (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/27/23 21:19
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230627N09	Instrument ID	: VOA131
Sample Amount	: 4.7 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 93
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
106-93-4	1,2-Dibromoethane	ND	61	17.	U	UJ
142-28-9	1,3-Dichloropropane	ND	120	10.	U	UJ
630-20-6	1,1,1,2-Tetrachloroethane	ND	30	8.0	U	UJ
108-86-1	Bromobenzene	ND	120	8.8	U	R
104-51-8	n-Butylbenzene	ND	61	10.	U	R
135-98-8	sec-Butylbenzene	ND	61	8.9	U	R
98-06-6	tert-Butylbenzene	ND	120	7.2	U	R
95-49-8	o-Chlorotoluene	ND	120	12.	U	R
106-43-4	p-Chlorotoluene	ND	120	6.6	U	R
96-12-8	1,2-Dibromo-3-chloropropane	ND	180	61.	U	R
87-68-3	Hexachlorobutadiene	ND	240	10.	U	R
98-82-8	Isopropylbenzene	ND	61	6.6	U	R
99-87-6	p-Isopropyltoluene	ND	61	6.6	U	R
91-20-3	Naphthalene	ND	240	40.	U	R
107-13-1	Acrylonitrile	ND	240	70.	U	
103-65-1	n-Propylbenzene	ND	61	10.	U	R
87-61-6	1,2,3-Trichlorobenzene	ND	120	20.	U	R
120-82-1	1,2,4-Trichlorobenzene	ND	120	16.	U	R
108-67-8	1,3,5-Trimethylbenzene	ND	120	12.	U	R
95-63-6	1,2,4-Trimethylbenzene	ND	120	20.	U	R
123-91-1	1,4-Dioxane	ND	4900	2100	U	
105-05-5	p-Diethylbenzene	ND	120	11.	U	R
622-96-8	p-Ethyltoluene	ND	120	23.	U	R
95-93-2	1,2,4,5-Tetramethylbenzene	ND	120	12.	U	R
60-29-7	Ethyl ether	ND	120	21.	U	

Results Summary
Form 1
Volatile Organics by EPA 5035 High

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-26	Date Collected	: 06/20/23 08:50
Client ID	: 7-B1W (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/27/23 21:19
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230627N09	Instrument ID	: VOA131
Sample Amount	: 4.7 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 93
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
110-57-6	trans-1,4-Dichloro-2-butene	ND	300	86.	U	R

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-26	Date Collected	: 06/20/23 08:50
Client ID	: 7-B1W (1.5-2)RE	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 11:01
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A10	Instrument ID	: VOA131
Sample Amount	: 4.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 93
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	5.5	2.5	U	
75-34-3	1,1-Dichloroethane	0.93	1.1	0.16	J	
67-66-3	Chloroform	26	1.7	0.16		
56-23-5	Carbon tetrachloride	ND	1.1	0.25	U	
78-87-5	1,2-Dichloropropane	ND	1.1	0.14	U	
124-48-1	Dibromochloromethane	ND	1.1	0.16	U	
79-00-5	1,1,2-Trichloroethane	ND	1.1	0.30	U	
127-18-4	Tetrachloroethene	2800	0.55	0.22	E	J
108-90-7	Chlorobenzene	ND	0.55	0.14	U	
75-69-4	Trichlorofluoromethane	ND	4.4	0.77	U	
107-06-2	1,2-Dichloroethane	ND	1.1	0.28	U	
71-55-6	1,1,1-Trichloroethane	5.9	0.55	0.18		
75-27-4	Bromodichloromethane	ND	0.55	0.12	U	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.30	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.55	0.17	U	
542-75-6	1,3-Dichloropropene, Total	ND	0.55	0.17	U	
563-58-6	1,1-Dichloropropene	ND	0.55	0.18	U	
75-25-2	Bromoform	ND	4.4	0.27	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.55	0.18	U	
71-43-2	Benzene	0.31	0.55	0.18	J	
108-88-3	Toluene	ND	1.1	0.60	U	
100-41-4	Ethylbenzene	ND	1.1	0.16	U	
74-87-3	Chloromethane	ND	4.4	1.0	U	
74-83-9	Bromomethane	ND	2.2	0.64	U	
75-01-4	Vinyl chloride	2.2	1.1	0.37		

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-26	Date Collected	: 06/20/23 08:50
Client ID	: 7-B1W (1.5-2)RE	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 11:01
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A10	Instrument ID	: VOA131
Sample Amount	: 4.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 93
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	2.2	0.50	U	
75-35-4	1,1-Dichloroethene	ND	1.1	0.26	U	
156-60-5	trans-1,2-Dichloroethene	4.4	1.7	0.15		
79-01-6	Trichloroethene	200	0.55	0.15		
95-50-1	1,2-Dichlorobenzene	0.24	2.2	0.16	J	
541-73-1	1,3-Dichlorobenzene	0.31	2.2	0.16	J	
106-46-7	1,4-Dichlorobenzene	0.22	2.2	0.19	J	
1634-04-4	Methyl tert butyl ether	ND	2.2	0.22	U	
179601-23-1	p/m-Xylene	ND	2.2	0.62	U	
95-47-6	o-Xylene	ND	1.1	0.32	U	
1330-20-7	Xylenes, Total	ND	1.1	0.32	U	
156-59-2	cis-1,2-Dichloroethene	360	1.1	0.19	E	J
540-59-0	1,2-Dichloroethene, Total	79	1.7	0.15		
74-95-3	Dibromomethane	ND	2.2	0.26	U	
100-42-5	Styrene	ND	1.1	0.22	U	
75-71-8	Dichlorodifluoromethane	ND	11	1.0	U	
67-64-1	Acetone	11	11	5.3		
75-15-0	Carbon disulfide	ND	11	5.0	U	
78-93-3	2-Butanone	2.8	11	2.4	J	
108-05-4	Vinyl acetate	ND	11	2.4	U	
108-10-1	4-Methyl-2-pentanone	ND	11	1.4	U	
96-18-4	1,2,3-Trichloropropane	ND	2.2	0.14	U	
591-78-6	2-Hexanone	ND	11	1.3	U	
74-97-5	Bromochloromethane	ND	2.2	0.23	U	
594-20-7	2,2-Dichloropropane	ND	2.2	0.22	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-26	Date Collected	: 06/20/23 08:50
Client ID	: 7-B1W (1.5-2)RE	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 11:01
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A10	Instrument ID	: VOA131
Sample Amount	: 4.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 93
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	1.1	0.31	U
142-28-9	1,3-Dichloropropane	ND	2.2	0.18	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.55	0.15	U
108-86-1	Bromobenzene	ND	2.2	0.16	U
104-51-8	n-Butylbenzene	ND	1.1	0.18	U
135-98-8	sec-Butylbenzene	ND	1.1	0.16	U
98-06-6	tert-Butylbenzene	ND	2.2	0.13	U
95-49-8	o-Chlorotoluene	ND	2.2	0.21	U
106-43-4	p-Chlorotoluene	ND	2.2	0.12	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.3	1.1	U
87-68-3	Hexachlorobutadiene	ND	4.4	0.19	U
98-82-8	Isopropylbenzene	ND	1.1	0.12	U
99-87-6	p-Isopropyltoluene	ND	1.1	0.12	U
91-20-3	Naphthalene	ND	4.4	0.72	U
107-13-1	Acrylonitrile	ND	4.4	1.3	U
103-65-1	n-Propylbenzene	ND	1.1	0.19	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.2	0.36	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.2	0.30	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.2	0.21	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.2	0.37	U
123-91-1	1,4-Dioxane	ND	88	39.	U
105-05-5	p-Diethylbenzene	ND	2.2	0.20	U
622-96-8	p-Ethyltoluene	ND	2.2	0.42	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.2	0.21	U
60-29-7	Ethyl ether	ND	2.2	0.38	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-26	Date Collected	: 06/20/23 08:50
Client ID	: 7-B1W (1.5-2)RE	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 11:01
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A10	Instrument ID	: VOA131
Sample Amount	: 4.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 93
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.5	1.6	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-26R	Date Collected	: 06/20/23 08:50
Client ID	: 7-B1W (1.5-2)RE2	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/27/23 21:42
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230627N10	Instrument ID	: VOA131
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 93
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	5.1	2.3	U	
75-34-3	1,1-Dichloroethane	3.7	1.0	0.15		J+
67-66-3	Chloroform	92	1.5	0.14		J+
56-23-5	Carbon tetrachloride	ND	1.0	0.23	U	
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U	
124-48-1	Dibromochloromethane	ND	1.0	0.14	U	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.27	U	
127-18-4	Tetrachloroethene	8200	0.51	0.20	E	J+
108-90-7	Chlorobenzene	ND	0.51	0.13	U	
75-69-4	Trichlorofluoromethane	ND	4.1	0.71	U	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	U	
71-55-6	1,1,1-Trichloroethane	16	0.51	0.17		J+
75-27-4	Bromodichloromethane	ND	0.51	0.11	U	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.28	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.51	0.16	U	
542-75-6	1,3-Dichloropropene, Total	ND	0.51	0.16	U	
563-58-6	1,1-Dichloropropene	ND	0.51	0.16	U	
75-25-2	Bromoform	ND	4.1	0.25	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.51	0.17	U	UJ
71-43-2	Benzene	0.77	0.51	0.17		J+
108-88-3	Toluene	0.84	1.0	0.55	J	J+
100-41-4	Ethylbenzene	ND	1.0	0.14	U	
74-87-3	Chloromethane	ND	4.1	0.95	U	
74-83-9	Bromomethane	ND	2.0	0.59	U	
75-01-4	Vinyl chloride	7.7	1.0	0.34		J+

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-26R	Date Collected	: 06/20/23 08:50
Client ID	: 7-B1W (1.5-2)RE2	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/27/23 21:42
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230627N10	Instrument ID	: VOA131
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 93
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	2.0	0.46	U	
75-35-4	1,1-Dichloroethene	0.97	1.0	0.24	J	J+
156-60-5	trans-1,2-Dichloroethene	14	1.5	0.14		J+
79-01-6	Trichloroethene	580	0.51	0.14	E	J+
95-50-1	1,2-Dichlorobenzene	0.57	2.0	0.15	J	J+
541-73-1	1,3-Dichlorobenzene	0.63	2.0	0.15	J	J+
106-46-7	1,4-Dichlorobenzene	0.21	2.0	0.17	J	J+
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U	
179601-23-1	p/m-Xylene	ND	2.0	0.57	U	
95-47-6	o-Xylene	ND	1.0	0.30	U	
1330-20-7	Xylenes, Total	ND	1.0	0.30	U	
156-59-2	cis-1,2-Dichloroethene	1400	1.0	0.18	E	J+
74-95-3	Dibromomethane	ND	2.0	0.24	U	
100-42-5	Styrene	ND	1.0	0.20	U	
75-71-8	Dichlorodifluoromethane	ND	10	0.93	U	
67-64-1	Acetone	7.7	10	4.9	J	J+
75-15-0	Carbon disulfide	ND	10	4.6	U	
78-93-3	2-Butanone	3.8	10	2.2	J	J+
108-05-4	Vinyl acetate	ND	10	2.2	U	
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.13	U	
591-78-6	2-Hexanone	ND	10	1.2	U	
74-97-5	Bromochloromethane	ND	2.0	0.21	U	
594-20-7	2,2-Dichloropropane	ND	2.0	0.20	U	
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-26R	Date Collected	: 06/20/23 08:50
Client ID	: 7-B1W (1.5-2)RE2	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/27/23 21:42
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230627N10	Instrument ID	: VOA131
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 93
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
142-28-9	1,3-Dichloropropane	ND	2.0	0.17	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.51	0.13	U	
108-86-1	Bromobenzene	ND	2.0	0.15	U	
104-51-8	n-Butylbenzene	ND	1.0	0.17	U	
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U	
98-06-6	tert-Butylbenzene	ND	2.0	0.12	U	
95-49-8	o-Chlorotoluene	ND	2.0	0.19	U	
106-43-4	p-Chlorotoluene	ND	2.0	0.11	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	1.0	U	
87-68-3	Hexachlorobutadiene	ND	4.1	0.17	U	
98-82-8	Isopropylbenzene	ND	1.0	0.11	U	
99-87-6	p-Isopropyltoluene	ND	1.0	0.11	U	
91-20-3	Naphthalene	ND	4.1	0.66	U	UJ
107-13-1	Acrylonitrile	ND	4.1	1.2	U	
103-65-1	n-Propylbenzene	ND	1.0	0.17	U	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.33	U	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.28	U	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	U	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.34	U	
123-91-1	1,4-Dioxane	ND	81	36.	U	
105-05-5	p-Diethylbenzene	ND	2.0	0.18	U	
622-96-8	p-Ethyltoluene	ND	2.0	0.39	U	
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.19	U	UJ
60-29-7	Ethyl ether	ND	2.0	0.35	U	
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.1	1.4	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-27D2	Date Collected	: 06/20/23 08:55
Client ID	: 7-B1W (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/27/23 20:56
Sample Matrix	: SOIL	Dilution Factor	: 10
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230627N08	Instrument ID	: VOA131
Sample Amount	: 4.8 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 91
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	3200	1400	U	
75-34-3	1,1-Dichloroethane	140	630	92.	J	
67-66-3	Chloroform	4300	950	88.		
56-23-5	Carbon tetrachloride	ND	630	140	U	
78-87-5	1,2-Dichloropropane	ND	630	79.	U	
124-48-1	Dibromochloromethane	ND	630	88.	U	
79-00-5	1,1,2-Trichloroethane	ND	630	170	U	
127-18-4	Tetrachloroethene	550000	320	120	E	J
108-90-7	Chlorobenzene	ND	320	80.	U	
75-69-4	Trichlorofluoromethane	ND	2500	440	U	
107-06-2	1,2-Dichloroethane	ND	630	160	U	
71-55-6	1,1,1-Trichloroethane	1000	320	100		
75-27-4	Bromodichloromethane	ND	320	69.	U	
10061-02-6	trans-1,3-Dichloropropene	ND	630	170	U	
10061-01-5	cis-1,3-Dichloropropene	ND	320	100	U	
542-75-6	1,3-Dichloropropene, Total	ND	320	100	U	
563-58-6	1,1-Dichloropropene	ND	320	100	U	
75-25-2	Bromoform	ND	2500	160	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	320	100	U	UJ
71-43-2	Benzene	ND	320	100	U	
108-88-3	Toluene	ND	630	340	U	
100-41-4	Ethylbenzene	ND	630	89.	U	
74-87-3	Chloromethane	ND	2500	590	U	
74-83-9	Bromomethane	ND	1300	370	U	
75-01-4	Vinyl chloride	ND	630	210	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-27D2	Date Collected	: 06/20/23 08:55
Client ID	: 7-B1W (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/27/23 20:56
Sample Matrix	: SOIL	Dilution Factor	: 10
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230627N08	Instrument ID	: VOA131
Sample Amount	: 4.8 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 91
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	1300	290	U
75-35-4	1,1-Dichloroethene	ND	630	150	U
156-60-5	trans-1,2-Dichloroethene	330	950	87.	J
79-01-6	Trichloroethene	32000	320	87.	
95-50-1	1,2-Dichlorobenzene	ND	1300	91.	U
541-73-1	1,3-Dichlorobenzene	ND	1300	94.	U
106-46-7	1,4-Dichlorobenzene	ND	1300	110	U
1634-04-4	Methyl tert butyl ether	ND	1300	130	U
179601-23-1	p/m-Xylene	ND	1300	350	U
95-47-6	o-Xylene	ND	630	180	U
1330-20-7	Xylenes, Total	ND	630	180	U
156-59-2	cis-1,2-Dichloroethene	50000	630	110	
540-59-0	1,2-Dichloroethene, Total	50000	630	87.	J
74-95-3	Dibromomethane	ND	1300	150	U
100-42-5	Styrene	ND	630	120	U
75-71-8	Dichlorodifluoromethane	ND	6300	580	U
67-64-1	Acetone	ND	6300	3000	U
75-15-0	Carbon disulfide	ND	6300	2900	U
78-93-3	2-Butanone	ND	6300	1400	U
108-05-4	Vinyl acetate	ND	6300	1400	U
108-10-1	4-Methyl-2-pentanone	ND	6300	810	U
96-18-4	1,2,3-Trichloropropane	ND	1300	80.	U
591-78-6	2-Hexanone	ND	6300	750	U
74-97-5	Bromochloromethane	ND	1300	130	U
594-20-7	2,2-Dichloropropane	ND	1300	130	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-27D2	Date Collected	: 06/20/23 08:55
Client ID	: 7-B1W (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/27/23 20:56
Sample Matrix	: SOIL	Dilution Factor	: 10
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230627N08	Instrument ID	: VOA131
Sample Amount	: 4.8 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 91
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
106-93-4	1,2-Dibromoethane	ND	630	180	U	
142-28-9	1,3-Dichloropropane	ND	1300	100	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	320	84.	U	
108-86-1	Bromobenzene	ND	1300	92.	U	
104-51-8	n-Butylbenzene	ND	630	100	U	
135-98-8	sec-Butylbenzene	ND	630	92.	U	
98-06-6	tert-Butylbenzene	ND	1300	75.	U	
95-49-8	o-Chlorotoluene	ND	1300	120	U	
106-43-4	p-Chlorotoluene	ND	1300	68.	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1900	630	U	
87-68-3	Hexachlorobutadiene	ND	2500	110	U	
98-82-8	Isopropylbenzene	ND	630	69.	U	
99-87-6	p-Isopropyltoluene	ND	630	69.	U	
91-20-3	Naphthalene	ND	2500	410	U	UJ
107-13-1	Acrylonitrile	ND	2500	730	U	
103-65-1	n-Propylbenzene	ND	630	110	U	
87-61-6	1,2,3-Trichlorobenzene	ND	1300	200	U	
120-82-1	1,2,4-Trichlorobenzene	ND	1300	170	U	
108-67-8	1,3,5-Trimethylbenzene	ND	1300	120	U	
95-63-6	1,2,4-Trimethylbenzene	ND	1300	210	U	
123-91-1	1,4-Dioxane	ND	51000	22000	U	
105-05-5	p-Diethylbenzene	ND	1300	110	U	
622-96-8	p-Ethyltoluene	ND	1300	240	U	
95-93-2	1,2,4,5-Tetramethylbenzene	ND	1300	120	U	UJ
60-29-7	Ethyl ether	ND	1300	220	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-27D2	**Date Collected**	: 06/20/23 08:55
Client ID	: 7-B1W (4.5-5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/27/23 20:56
Sample Matrix	: SOIL	**Dilution Factor**	: 10
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V31230627N08	**Instrument ID**	: VOA131
Sample Amount	: 4.8 g	**GC Column**	: RTX-VMS
Level	: HIGH	**%Solids**	: 91
Extract Volume (MeOH)	: 5 ml	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	3200	900	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-27D	Date Collected	: 06/20/23 08:55
Client ID	: 7-B1W (4.5-5)DL	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 14:49
Sample Matrix	: SOIL	Dilution Factor	: 20
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A20	Instrument ID	: VOA131
Sample Amount	: 4.8 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 91
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
127-18-4	Tetrachloroethene	350000	630	250	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-28	Date Collected	: 06/20/23 09:00
Client ID	: 7-B1W (6.5-7)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 11:24
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A11	Instrument ID	: VOA131
Sample Amount	: 5.6 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 83
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	5.4	2.4	U	
75-34-3	1,1-Dichloroethane	ND	1.1	0.16	U	
67-66-3	Chloroform	0.55	1.6	0.15	J	
56-23-5	Carbon tetrachloride	ND	1.1	0.25	U	
78-87-5	1,2-Dichloropropane	ND	1.1	0.13	U	
124-48-1	Dibromochloromethane	ND	1.1	0.15	U	
79-00-5	1,1,2-Trichloroethane	ND	1.1	0.29	U	
127-18-4	Tetrachloroethene	72	0.54	0.21		
108-90-7	Chlorobenzene	ND	0.54	0.14	U	
75-69-4	Trichlorofluoromethane	ND	4.3	0.75	U	
107-06-2	1,2-Dichloroethane	ND	1.1	0.28	U	
71-55-6	1,1,1-Trichloroethane	ND	0.54	0.18	U	
75-27-4	Bromodichloromethane	ND	0.54	0.12	U	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.29	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.54	0.17	U	
542-75-6	1,3-Dichloropropene, Total	ND	0.54	0.17	U	
563-58-6	1,1-Dichloropropene	ND	0.54	0.17	U	
75-25-2	Bromoform	ND	4.3	0.26	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.54	0.18	U	UJ
71-43-2	Benzene	0.80	0.54	0.18		
108-88-3	Toluene	1.2	1.1	0.58		
100-41-4	Ethylbenzene	0.90	1.1	0.15	J	
74-87-3	Chloromethane	ND	4.3	1.0	U	
74-83-9	Bromomethane	ND	2.1	0.62	U	
75-01-4	Vinyl chloride	4.9	1.1	0.36		

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-28	Date Collected	: 06/20/23 09:00
Client ID	: 7-B1W (6.5-7)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 11:24
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A11	Instrument ID	: VOA131
Sample Amount	: 5.6 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 83
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	2.1	0.48	U
75-35-4	1,1-Dichloroethene	ND	1.1	0.26	U
156-60-5	trans-1,2-Dichloroethene	0.38	1.6	0.15	J
79-01-6	Trichloroethene	5.7	0.54	0.15	
95-50-1	1,2-Dichlorobenzene	2.5	2.1	0.15	
541-73-1	1,3-Dichlorobenzene	0.16	2.1	0.16	J
106-46-7	1,4-Dichlorobenzene	0.46	2.1	0.18	J
1634-04-4	Methyl tert butyl ether	ND	2.1	0.22	U
179601-23-1	p/m-Xylene	0.64	2.1	0.60	J
95-47-6	o-Xylene	0.40	1.1	0.31	J
1330-20-7	Xylenes, Total	1.0	1.1	0.31	J
156-59-2	cis-1,2-Dichloroethene	35	1.1	0.19	
540-59-0	1,2-Dichloroethene, Total	35	1.1	0.15	J
74-95-3	Dibromomethane	ND	2.1	0.26	U
100-42-5	Styrene	ND	1.1	0.21	U
75-71-8	Dichlorodifluoromethane	ND	11	0.98	U
67-64-1	Acetone	65	11	5.2	
75-15-0	Carbon disulfide	ND	11	4.9	U
78-93-3	2-Butanone	8.9	11	2.4	J
108-05-4	Vinyl acetate	ND	11	2.3	U
108-10-1	4-Methyl-2-pentanone	ND	11	1.4	U
96-18-4	1,2,3-Trichloropropane	ND	2.1	0.14	U
591-78-6	2-Hexanone	ND	11	1.3	U
74-97-5	Bromochloromethane	ND	2.1	0.22	U
594-20-7	2,2-Dichloropropane	ND	2.1	0.22	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-28	Date Collected	: 06/20/23 09:00
Client ID	: 7-B1W (6.5-7)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 11:24
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A11	Instrument ID	: VOA131
Sample Amount	: 5.6 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 83
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
106-93-4	1,2-Dibromoethane	ND	1.1	0.30	U	
142-28-9	1,3-Dichloropropane	ND	2.1	0.18	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.54	0.14	U	
108-86-1	Bromobenzene	ND	2.1	0.16	U	
104-51-8	n-Butylbenzene	0.32	1.1	0.18	J	
135-98-8	sec-Butylbenzene	0.25	1.1	0.16	J	
98-06-6	tert-Butylbenzene	ND	2.1	0.13	U	
95-49-8	o-Chlorotoluene	0.38	2.1	0.20	J	
106-43-4	p-Chlorotoluene	ND	2.1	0.12	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.2	1.1	U	
87-68-3	Hexachlorobutadiene	ND	4.3	0.18	U	
98-82-8	Isopropylbenzene	0.26	1.1	0.12	J	
99-87-6	p-Isopropyltoluene	0.28	1.1	0.12	J	
91-20-3	Naphthalene	ND	4.3	0.70	U	
107-13-1	Acrylonitrile	ND	4.3	1.2	U	
103-65-1	n-Propylbenzene	0.56	1.1	0.18	J	
87-61-6	1,2,3-Trichlorobenzene	ND	2.1	0.34	U	
120-82-1	1,2,4-Trichlorobenzene	ND	2.1	0.29	U	
108-67-8	1,3,5-Trimethylbenzene	0.51	2.1	0.21	J	
95-63-6	1,2,4-Trimethylbenzene	0.56	2.1	0.36	J	
123-91-1	1,4-Dioxane	ND	86	38.	U	
105-05-5	p-Diethylbenzene	0.56	2.1	0.19	J	
622-96-8	p-Ethyltoluene	0.78	2.1	0.41	J	
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.1	0.20	U	UJ
60-29-7	Ethyl ether	ND	2.1	0.37	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-28	**Date Collected**	: 06/20/23 09:00
Client ID	: 7-B1W (6.5-7)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/24/23 11:24
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V31230624A11	**Instrument ID**	: VOA131
Sample Amount	: 5.6 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 83
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.4	1.5	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-29D2	Date Collected	: 06/20/23 08:30
Client ID	: 7-B1WW (1-1.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/03/23 13:00
Sample Matrix	: SOIL	Dilution Factor	: 40
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V26230703A11	Instrument ID	: VOA126
Sample Amount	: 4.6 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 86
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	14000	6600	U	
75-34-3	1,1-Dichloroethane	ND	2900	420	U	
67-66-3	Chloroform	18000	4300	400		
56-23-5	Carbon tetrachloride	ND	2900	670	U	
78-87-5	1,2-Dichloropropane	ND	2900	360	U	
124-48-1	Dibromochloromethane	ND	2900	400	U	
79-00-5	1,1,2-Trichloroethane	ND	2900	770	U	
127-18-4	Tetrachloroethene	950000	1400	570	E	J
108-90-7	Chlorobenzene	ND	1400	370	U	
75-69-4	Trichlorofluoromethane	ND	12000	2000	U	
107-06-2	1,2-Dichloroethane	ND	2900	740	U	
71-55-6	1,1,1-Trichloroethane	2400	1400	480		
75-27-4	Bromodichloromethane	ND	1400	320	U	
10061-02-6	trans-1,3-Dichloropropene	ND	2900	790	U	
10061-01-5	cis-1,3-Dichloropropene	ND	1400	460	U	
542-75-6	1,3-Dichloropropene, Total	ND	1400	460	U	
563-58-6	1,1-Dichloropropene	ND	1400	460	U	
75-25-2	Bromoform	ND	12000	710	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1400	480	U	
71-43-2	Benzene	ND	1400	480	U	
108-88-3	Toluene	ND	2900	1600	U	
100-41-4	Ethylbenzene	ND	2900	410	U	
74-87-3	Chloromethane	ND	12000	2700	U	
74-83-9	Bromomethane	ND	5800	1700	U	
75-01-4	Vinyl chloride	ND	2900	970	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-29D2	Date Collected	: 06/20/23 08:30
Client ID	: 7-B1WW (1-1.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/03/23 13:00
Sample Matrix	: SOIL	Dilution Factor	: 40
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V26230703A11	Instrument ID	: VOA126
Sample Amount	: 4.6 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 86
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	5800	1300	U
75-35-4	1,1-Dichloroethene	ND	2900	690	U
156-60-5	trans-1,2-Dichloroethene	670	4300	400	J
79-01-6	Trichloroethene	38000	1400	400	
95-50-1	1,2-Dichlorobenzene	ND	5800	420	U
541-73-1	1,3-Dichlorobenzene	ND	5800	430	U
106-46-7	1,4-Dichlorobenzene	ND	5800	500	U
1634-04-4	Methyl tert butyl ether	ND	5800	580	U
179601-23-1	p/m-Xylene	ND	5800	1600	U
95-47-6	o-Xylene	ND	2900	840	U
1330-20-7	Xylenes, Total	ND	2900	840	U
156-59-2	cis-1,2-Dichloroethene	110000	2900	510	
540-59-0	1,2-Dichloroethene, Total	110000	2900	400	J
74-95-3	Dibromomethane	ND	5800	690	U
100-42-5	Styrene	ND	2900	570	U
75-71-8	Dichlorodifluoromethane	ND	29000	2600	U
67-64-1	Acetone	ND	29000	14000	U
75-15-0	Carbon disulfide	ND	29000	13000	U
78-93-3	2-Butanone	ND	29000	6400	U
108-05-4	Vinyl acetate	ND	29000	6200	U
108-10-1	4-Methyl-2-pentanone	ND	29000	3700	U
96-18-4	1,2,3-Trichloropropane	ND	5800	370	U
591-78-6	2-Hexanone	ND	29000	3400	U
74-97-5	Bromochloromethane	ND	5800	590	U
594-20-7	2,2-Dichloropropane	ND	5800	580	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-29D2	Date Collected	: 06/20/23 08:30
Client ID	: 7-B1WW (1-1.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/03/23 13:00
Sample Matrix	: SOIL	Dilution Factor	: 40
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V26230703A11	Instrument ID	: VOA126
Sample Amount	: 4.6 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 86
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	2900	810	U
142-28-9	1,3-Dichloropropane	ND	5800	480	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1400	380	U
108-86-1	Bromobenzene	ND	5800	420	U
104-51-8	n-Butylbenzene	ND	2900	480	U
135-98-8	sec-Butylbenzene	ND	2900	420	U
98-06-6	tert-Butylbenzene	ND	5800	340	U
95-49-8	o-Chlorotoluene	ND	5800	550	U
106-43-4	p-Chlorotoluene	ND	5800	310	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	8700	2900	U
87-68-3	Hexachlorobutadiene	ND	12000	490	U
98-82-8	Isopropylbenzene	ND	2900	320	U
99-87-6	p-Isopropyltoluene	ND	2900	320	U
91-20-3	Naphthalene	ND	12000	1900	U
107-13-1	Acrylonitrile	ND	12000	3300	U
103-65-1	n-Propylbenzene	ND	2900	500	U
87-61-6	1,2,3-Trichlorobenzene	ND	5800	930	U
120-82-1	1,2,4-Trichlorobenzene	ND	5800	790	U
108-67-8	1,3,5-Trimethylbenzene	ND	5800	560	U
95-63-6	1,2,4-Trimethylbenzene	ND	5800	970	U
123-91-1	1,4-Dioxane	ND	230000	100000	U
105-05-5	p-Diethylbenzene	ND	5800	510	U
622-96-8	p-Ethyltoluene	ND	5800	1100	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	5800	550	U
60-29-7	Ethyl ether	ND	5800	990	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-29D2	**Date Collected**	: 06/20/23 08:30
Client ID	: 7-B1WW (1-1.5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 07/03/23 13:00
Sample Matrix	: SOIL	**Dilution Factor**	: 40
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V26230703A11	**Instrument ID**	: VOA126
Sample Amount	: 4.6 g	**GC Column**	: RTX-VMS
Level	: HIGH	**%Solids**	: 86
Extract Volume (MeOH)	: 5 ml	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	14000	4100	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-29D	Date Collected	: 06/20/23 08:30
Client ID	: 7-B1WW (1-1.5)DL	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/01/23 20:33
Sample Matrix	: SOIL	Dilution Factor	: 100
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V10230701C17	Instrument ID	: VOA110
Sample Amount	: 4.6 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 86
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
127-18-4	Tetrachloroethene	1200000	3600	1400	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-30	Date Collected	: 06/20/23 08:35
Client ID	: 7-B1WW (4-4.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/03/23 12:22
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V26230703A10	Instrument ID	: VOA126
Sample Amount	: 5.1 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 84
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	340	150	U
75-34-3	1,1-Dichloroethane	ND	68	9.8	U
67-66-3	Chloroform	ND	100	9.4	U
56-23-5	Carbon tetrachloride	ND	68	16.	U
78-87-5	1,2-Dichloropropane	ND	68	8.4	U
124-48-1	Dibromochloromethane	ND	68	9.4	U
79-00-5	1,1,2-Trichloroethane	ND	68	18.	U
127-18-4	Tetrachloroethene	6900	34	13.	
108-90-7	Chlorobenzene	ND	34	8.6	U
75-69-4	Trichlorofluoromethane	ND	270	47.	U
107-06-2	1,2-Dichloroethane	ND	68	17.	U
71-55-6	1,1,1-Trichloroethane	ND	34	11.	U
75-27-4	Bromodichloromethane	ND	34	7.4	U
10061-02-6	trans-1,3-Dichloropropene	ND	68	18.	U
10061-01-5	cis-1,3-Dichloropropene	ND	34	11.	U
542-75-6	1,3-Dichloropropene, Total	ND	34	11.	U
563-58-6	1,1-Dichloropropene	ND	34	11.	U
75-25-2	Bromoform	ND	270	17.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	34	11.	U
71-43-2	Benzene	87	34	11.	
108-88-3	Toluene	180	68	37.	
100-41-4	Ethylbenzene	120	68	9.5	
74-87-3	Chloromethane	ND	270	63.	U
74-83-9	Bromomethane	ND	140	39.	U
75-01-4	Vinyl chloride	ND	68	23.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-30	Date Collected	: 06/20/23 08:35
Client ID	: 7-B1WW (4-4.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/03/23 12:22
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V26230703A10	Instrument ID	: VOA126
Sample Amount	: 5.1 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 84
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	140	30.	U	
75-35-4	1,1-Dichloroethene	ND	68	16.	U	
156-60-5	trans-1,2-Dichloroethene	14	100	9.2	J	
79-01-6	Trichloroethene	1100	34	9.2		
95-50-1	1,2-Dichlorobenzene	680	140	9.7		
541-73-1	1,3-Dichlorobenzene	19	140	10.	J	
106-46-7	1,4-Dichlorobenzene	110	140	12.	J	
1634-04-4	Methyl tert butyl ether	ND	140	14.	U	
179601-23-1	p/m-Xylene	120	140	38.	J	
95-47-6	o-Xylene	74	68	20.		
1330-20-7	Xylenes, Total	190	68	20.	J	
156-59-2	cis-1,2-Dichloroethene	840	68	12.		
540-59-0	1,2-Dichloroethene, Total	850	68	9.2	J	
74-95-3	Dibromomethane	ND	140	16.	U	
100-42-5	Styrene	15	68	13.	J	
75-71-8	Dichlorodifluoromethane	ND	680	62.	U	
67-64-1	Acetone	ND	680	320	U	
75-15-0	Carbon disulfide	ND	680	310	U	
78-93-3	2-Butanone	ND	680	150	U	
108-05-4	Vinyl acetate	ND	680	140	U	UJ
108-10-1	4-Methyl-2-pentanone	ND	680	86.	U	
96-18-4	1,2,3-Trichloropropane	ND	140	8.6	U	
591-78-6	2-Hexanone	ND	680	80.	U	
74-97-5	Bromochloromethane	ND	140	14.	U	
594-20-7	2,2-Dichloropropane	ND	140	14.	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-30	Date Collected	: 06/20/23 08:35
Client ID	: 7-B1WW (4-4.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/03/23 12:22
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V26230703A10	Instrument ID	: VOA126
Sample Amount	: 5.1 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 84
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	68	19.	U
142-28-9	1,3-Dichloropropane	ND	140	11.	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	34	8.9	U
108-86-1	Bromobenzene	ND	140	9.8	U
104-51-8	n-Butylbenzene	110	68	11.	
135-98-8	sec-Butylbenzene	51	68	9.9	J
98-06-6	tert-Butylbenzene	ND	140	8.0	U
95-49-8	o-Chlorotoluene	140	140	13.	
106-43-4	p-Chlorotoluene	ND	140	7.3	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	67.	U
87-68-3	Hexachlorobutadiene	ND	270	11.	U
98-82-8	Isopropylbenzene	37	68	7.4	J
99-87-6	p-Isopropyltoluene	69	68	7.4	
91-20-3	Naphthalene	60	270	44.	J
107-13-1	Acrylonitrile	ND	270	78.	U
103-65-1	n-Propylbenzene	120	68	12.	
87-61-6	1,2,3-Trichlorobenzene	ND	140	22.	U
120-82-1	1,2,4-Trichlorobenzene	19	140	18.	J
108-67-8	1,3,5-Trimethylbenzene	74	140	13.	J
95-63-6	1,2,4-Trimethylbenzene	160	140	22.	
123-91-1	1,4-Dioxane	ND	5400	2400	U
105-05-5	p-Diethylbenzene	91	140	12.	J
622-96-8	p-Ethyltoluene	ND	140	26.	U
95-93-2	1,2,4,5-Tetramethylbenzene	19	140	13.	J
60-29-7	Ethyl ether	ND	140	23.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-30	**Date Collected**	: 06/20/23 08:35
Client ID	: 7-B1WW (4-4.5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 07/03/23 12:22
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V26230703A10	**Instrument ID**	: VOA126
Sample Amount	: 5.1 g	**GC Column**	: RTX-VMS
Level	: HIGH	**%Solids**	: 84
Extract Volume (MeOH)	: 5 ml	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	340	96.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-31	**Date Collected**	: 06/20/23 08:40
Client ID	: 7-B1WW (4.5-5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 07/03/23 11:43
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V26230703A09	**Instrument ID**	: VOA126
Sample Amount	: 4.3 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 77
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	7.5	3.4	U
75-34-3	1,1-Dichloroethane	ND	1.5	0.22	U
67-66-3	Chloroform	ND	2.2	0.21	U
56-23-5	Carbon tetrachloride	ND	1.5	0.34	U
78-87-5	1,2-Dichloropropane	ND	1.5	0.19	U
124-48-1	Dibromochloromethane	ND	1.5	0.21	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.40	U
127-18-4	Tetrachloroethene	170	0.75	0.29	
108-90-7	Chlorobenzene	ND	0.75	0.19	U
75-69-4	Trichlorofluoromethane	ND	6.0	1.0	U
107-06-2	1,2-Dichloroethane	ND	1.5	0.39	U
71-55-6	1,1,1-Trichloroethane	ND	0.75	0.25	U
75-27-4	Bromodichloromethane	ND	0.75	0.16	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	0.41	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	0.24	U
542-75-6	1,3-Dichloropropene, Total	ND	0.75	0.24	U
563-58-6	1,1-Dichloropropene	ND	0.75	0.24	U
75-25-2	Bromoform	ND	6.0	0.37	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.75	0.25	U
71-43-2	Benzene	0.58	0.75	0.25	J
108-88-3	Toluene	1.6	1.5	0.82	
100-41-4	Ethylbenzene	1.5	1.5	0.21	
74-87-3	Chloromethane	ND	6.0	1.4	U
74-83-9	Bromomethane	ND	3.0	0.87	U
75-01-4	Vinyl chloride	ND	1.5	0.50	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-31	Date Collected	: 06/20/23 08:40
Client ID	: 7-B1WW (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/03/23 11:43
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V26230703A09	Instrument ID	: VOA126
Sample Amount	: 4.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 77
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	3.0	0.68	U	
75-35-4	1,1-Dichloroethene	ND	1.5	0.36	U	
156-60-5	trans-1,2-Dichloroethene	0.50	2.2	0.21	J	
79-01-6	Trichloroethene	26	0.75	0.21		
95-50-1	1,2-Dichlorobenzene	2.1	3.0	0.22	J	
541-73-1	1,3-Dichlorobenzene	ND	3.0	0.22	U	
106-46-7	1,4-Dichlorobenzene	ND	3.0	0.26	U	
1634-04-4	Methyl tert butyl ether	ND	3.0	0.30	U	
179601-23-1	p/m-Xylene	1.4	3.0	0.84	J	
95-47-6	o-Xylene	0.93	1.5	0.44	J	
1330-20-7	Xylenes, Total	2.3	1.5	0.44	J	
156-59-2	cis-1,2-Dichloroethene	20	1.5	0.26		
540-59-0	1,2-Dichloroethene, Total	21	1.5	0.21	J	
74-95-3	Dibromomethane	ND	3.0	0.36	U	
100-42-5	Styrene	ND	1.5	0.29	U	
75-71-8	Dichlorodifluoromethane	ND	15	1.4	U	
67-64-1	Acetone	26	15	7.2		
75-15-0	Carbon disulfide	ND	15	6.8	U	
78-93-3	2-Butanone	14	15	3.3	J	
108-05-4	Vinyl acetate	ND	15	3.2	U	UJ
108-10-1	4-Methyl-2-pentanone	ND	15	1.9	U	
96-18-4	1,2,3-Trichloropropane	ND	3.0	0.19	U	
591-78-6	2-Hexanone	ND	15	1.8	U	
74-97-5	Bromochloromethane	ND	3.0	0.31	U	
594-20-7	2,2-Dichloropropane	ND	3.0	0.30	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-31	**Date Collected**	: 06/20/23 08:40
Client ID	: 7-B1WW (4.5-5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 07/03/23 11:43
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V26230703A09	**Instrument ID**	: VOA126
Sample Amount	: 4.3 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 77
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
106-93-4	1,2-Dibromoethane	ND	1.5	0.42	U
142-28-9	1,3-Dichloropropane	ND	3.0	0.25	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.75	0.20	U
108-86-1	Bromobenzene	ND	3.0	0.22	U
104-51-8	n-Butylbenzene	ND	1.5	0.25	U
135-98-8	sec-Butylbenzene	ND	1.5	0.22	U
98-06-6	tert-Butylbenzene	ND	3.0	0.18	U
95-49-8	o-Chlorotoluene	0.79	3.0	0.29	J
106-43-4	p-Chlorotoluene	ND	3.0	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.5	1.5	U
87-68-3	Hexachlorobutadiene	ND	6.0	0.25	U
98-82-8	Isopropylbenzene	0.32	1.5	0.16	J
99-87-6	p-Isopropyltoluene	0.38	1.5	0.16	J
91-20-3	Naphthalene	ND	6.0	0.98	U
107-13-1	Acrylonitrile	ND	6.0	1.7	U
103-65-1	n-Propylbenzene	0.76	1.5	0.26	J
87-61-6	1,2,3-Trichlorobenzene	ND	3.0	0.48	U
120-82-1	1,2,4-Trichlorobenzene	ND	3.0	0.41	U
108-67-8	1,3,5-Trimethylbenzene	ND	3.0	0.29	U
95-63-6	1,2,4-Trimethylbenzene	ND	3.0	0.50	U
123-91-1	1,4-Dioxane	ND	120	53.	U
105-05-5	p-Diethylbenzene	ND	3.0	0.27	U
622-96-8	p-Ethyltoluene	ND	3.0	0.58	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	3.0	0.29	U
60-29-7	Ethyl ether	ND	3.0	0.51	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-31	**Date Collected**	: 06/20/23 08:40
Client ID	: 7-B1WW (4.5-5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 07/03/23 11:43
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V26230703A09	**Instrument ID**	: VOA126
Sample Amount	: 4.3 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 77
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	7.5	2.1	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-32	Date Collected	: 06/20/23 09:15
Client ID	: 7-B1E (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 11:47
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A12	Instrument ID	: VOA131
Sample Amount	: 5.2 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 91
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	2.4	5.3	2.4	J
75-34-3	1,1-Dichloroethane	ND	1.1	0.15	U
67-66-3	Chloroform	ND	1.6	0.15	U
56-23-5	Carbon tetrachloride	ND	1.1	0.24	U
78-87-5	1,2-Dichloropropane	ND	1.1	0.13	U
124-48-1	Dibromochloromethane	ND	1.1	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.1	0.28	U
127-18-4	Tetrachloroethene	8.9	0.53	0.21	
108-90-7	Chlorobenzene	ND	0.53	0.14	U
75-69-4	Trichlorofluoromethane	ND	4.3	0.74	U
107-06-2	1,2-Dichloroethane	ND	1.1	0.27	U
71-55-6	1,1,1-Trichloroethane	ND	0.53	0.18	U
75-27-4	Bromodichloromethane	ND	0.53	0.12	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.29	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.53	0.17	U
542-75-6	1,3-Dichloropropene, Total	ND	0.53	0.17	U
563-58-6	1,1-Dichloropropene	ND	0.53	0.17	U
75-25-2	Bromoform	ND	4.3	0.26	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.53	0.18	U UJ
71-43-2	Benzene	1.2	0.53	0.18	
108-88-3	Toluene	4.9	1.1	0.58	
100-41-4	Ethylbenzene	0.94	1.1	0.15	J
74-87-3	Chloromethane	ND	4.3	0.99	U
74-83-9	Bromomethane	ND	2.1	0.62	U
75-01-4	Vinyl chloride	3.6	1.1	0.36	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-32	Date Collected	: 06/20/23 09:15
Client ID	: 7-B1E (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 11:47
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A12	Instrument ID	: VOA131
Sample Amount	: 5.2 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 91
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	2.1	0.48	U
75-35-4	1,1-Dichloroethene	ND	1.1	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.24	1.6	0.15	J
79-01-6	Trichloroethene	1.8	0.53	0.15	
95-50-1	1,2-Dichlorobenzene	0.38	2.1	0.15	J
541-73-1	1,3-Dichlorobenzene	ND	2.1	0.16	U
106-46-7	1,4-Dichlorobenzene	0.27	2.1	0.18	J
1634-04-4	Methyl tert butyl ether	ND	2.1	0.21	U
179601-23-1	p/m-Xylene	1.5	2.1	0.60	J
95-47-6	o-Xylene	0.58	1.1	0.31	J
1330-20-7	Xylenes, Total	2.1	1.1	0.31	J
156-59-2	cis-1,2-Dichloroethene	18	1.1	0.19	
540-59-0	1,2-Dichloroethene, Total	18	1.1	0.15	J
74-95-3	Dibromomethane	ND	2.1	0.25	U
100-42-5	Styrene	0.23	1.1	0.21	J
75-71-8	Dichlorodifluoromethane	ND	11	0.98	U
67-64-1	Acetone	110	11	5.1	
75-15-0	Carbon disulfide	10	11	4.8	J
78-93-3	2-Butanone	16	11	2.4	
108-05-4	Vinyl acetate	ND	11	2.3	U
108-10-1	4-Methyl-2-pentanone	ND	11	1.4	U
96-18-4	1,2,3-Trichloropropane	ND	2.1	0.14	U
591-78-6	2-Hexanone	ND	11	1.2	U
74-97-5	Bromochloromethane	ND	2.1	0.22	U
594-20-7	2,2-Dichloropropane	ND	2.1	0.22	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-32	Date Collected	: 06/20/23 09:15
Client ID	: 7-B1E (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 11:47
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A12	Instrument ID	: VOA131
Sample Amount	: 5.2 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 91
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
106-93-4	1,2-Dibromoethane	ND	1.1	0.30	U	
142-28-9	1,3-Dichloropropane	ND	2.1	0.18	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.53	0.14	U	
108-86-1	Bromobenzene	ND	2.1	0.15	U	
104-51-8	n-Butylbenzene	0.23	1.1	0.18	J	
135-98-8	sec-Butylbenzene	0.17	1.1	0.16	J	
98-06-6	tert-Butylbenzene	ND	2.1	0.12	U	
95-49-8	o-Chlorotoluene	ND	2.1	0.20	U	
106-43-4	p-Chlorotoluene	ND	2.1	0.12	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.2	1.1	U	
87-68-3	Hexachlorobutadiene	ND	4.3	0.18	U	
98-82-8	Isopropylbenzene	0.27	1.1	0.12	J	
99-87-6	p-Isopropyltoluene	0.39	1.1	0.12	J	
91-20-3	Naphthalene	1.5	4.3	0.69	J	
107-13-1	Acrylonitrile	ND	4.3	1.2	U	
103-65-1	n-Propylbenzene	0.27	1.1	0.18	J	
87-61-6	1,2,3-Trichlorobenzene	ND	2.1	0.34	U	
120-82-1	1,2,4-Trichlorobenzene	ND	2.1	0.29	U	
108-67-8	1,3,5-Trimethylbenzene	0.56	2.1	0.20	J	
95-63-6	1,2,4-Trimethylbenzene	1.3	2.1	0.36	J	
123-91-1	1,4-Dioxane	ND	85	37.	U	
105-05-5	p-Diethylbenzene	1.6	2.1	0.19	J	
622-96-8	p-Ethyltoluene	0.81	2.1	0.41	J	
95-93-2	1,2,4,5-Tetramethylbenzene	0.83	2.1	0.20	J	J-
60-29-7	Ethyl ether	ND	2.1	0.36	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-32	**Date Collected**	: 06/20/23 09:15
Client ID	: 7-B1E (1.5-2)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/24/23 11:47
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V31230624A12	**Instrument ID**	: VOA131
Sample Amount	: 5.2 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 91
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.3	1.5	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-33	Date Collected	: 06/20/23 09:20
Client ID	: 7-B1E (4-4.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 15:12
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A21	Instrument ID	: VOA131
Sample Amount	: 4.4 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 89
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	350	160	U	
75-34-3	1,1-Dichloroethane	ND	70	10.	U	
67-66-3	Chloroform	840	100	9.8		
56-23-5	Carbon tetrachloride	ND	70	16.	U	
78-87-5	1,2-Dichloropropane	ND	70	8.7	U	
124-48-1	Dibromochloromethane	ND	70	9.8	U	
79-00-5	1,1,2-Trichloroethane	ND	70	19.	U	
127-18-4	Tetrachloroethene	10000	35	14.		
108-90-7	Chlorobenzene	ND	35	8.8	U	
75-69-4	Trichlorofluoromethane	ND	280	48.	U	
107-06-2	1,2-Dichloroethane	ND	70	18.	U	
71-55-6	1,1,1-Trichloroethane	ND	35	12.	U	
75-27-4	Bromodichloromethane	ND	35	7.6	U	
10061-02-6	trans-1,3-Dichloropropene	ND	70	19.	U	
10061-01-5	cis-1,3-Dichloropropene	ND	35	11.	U	
542-75-6	1,3-Dichloropropene, Total	ND	35	11.	U	
563-58-6	1,1-Dichloropropene	ND	35	11.	U	
75-25-2	Bromoform	ND	280	17.	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	35	12.	U	UJ
71-43-2	Benzene	ND	35	12.	U	
108-88-3	Toluene	ND	70	38.	U	
100-41-4	Ethylbenzene	ND	70	9.8	U	
74-87-3	Chloromethane	ND	280	65.	U	
74-83-9	Bromomethane	ND	140	40.	U	
75-01-4	Vinyl chloride	42	70	23.	J	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-33	Date Collected	: 06/20/23 09:20
Client ID	: 7-B1E (4-4.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 15:12
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A21	Instrument ID	: VOA131
Sample Amount	: 4.4 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 89
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	140	32.	U
75-35-4	1,1-Dichloroethene	ND	70	17.	U
156-60-5	trans-1,2-Dichloroethene	74	100	9.6	J
79-01-6	Trichloroethene	1900	35	9.6	
95-50-1	1,2-Dichlorobenzene	11	140	10.	J
541-73-1	1,3-Dichlorobenzene	26	140	10.	J
106-46-7	1,4-Dichlorobenzene	ND	140	12.	U
1634-04-4	Methyl tert butyl ether	ND	140	14.	U
179601-23-1	p/m-Xylene	ND	140	39.	U
95-47-6	o-Xylene	ND	70	20.	U
1330-20-7	Xylenes, Total	ND	70	20.	U
156-59-2	cis-1,2-Dichloroethene	7100	70	12.	
540-59-0	1,2-Dichloroethene, Total	7200	70	9.6	J
74-95-3	Dibromomethane	ND	140	17.	U
100-42-5	Styrene	ND	70	14.	U
75-71-8	Dichlorodifluoromethane	ND	700	64.	U
67-64-1	Acetone	ND	700	340	U
75-15-0	Carbon disulfide	ND	700	320	U
78-93-3	2-Butanone	ND	700	150	U
108-05-4	Vinyl acetate	ND	700	150	U
108-10-1	4-Methyl-2-pentanone	ND	700	89.	U
96-18-4	1,2,3-Trichloropropane	ND	140	8.8	U
591-78-6	2-Hexanone	ND	700	82.	U
74-97-5	Bromochloromethane	ND	140	14.	U
594-20-7	2,2-Dichloropropane	ND	140	14.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-33	Date Collected	: 06/20/23 09:20
Client ID	: 7-B1E (4-4.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 15:12
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A21	Instrument ID	: VOA131
Sample Amount	: 4.4 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 89
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	70	19.	U
142-28-9	1,3-Dichloropropane	ND	140	12.	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	35	9.2	U
108-86-1	Bromobenzene	ND	140	10.	U
104-51-8	n-Butylbenzene	ND	70	12.	U
135-98-8	sec-Butylbenzene	ND	70	10.	U
98-06-6	tert-Butylbenzene	ND	140	8.2	U
95-49-8	o-Chlorotoluene	ND	140	13.	U
106-43-4	p-Chlorotoluene	ND	140	7.5	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	210	70.	U
87-68-3	Hexachlorobutadiene	ND	280	12.	U
98-82-8	Isopropylbenzene	ND	70	7.6	U
99-87-6	p-Isopropyltoluene	ND	70	7.6	U
91-20-3	Naphthalene	ND	280	45.	U
107-13-1	Acrylonitrile	ND	280	80.	U
103-65-1	n-Propylbenzene	ND	70	12.	U
87-61-6	1,2,3-Trichlorobenzene	ND	140	22.	U
120-82-1	1,2,4-Trichlorobenzene	ND	140	19.	U
108-67-8	1,3,5-Trimethylbenzene	ND	140	13.	U
95-63-6	1,2,4-Trimethylbenzene	ND	140	23.	U
123-91-1	1,4-Dioxane	ND	5600	2400	U
105-05-5	p-Diethylbenzene	ND	140	12.	U
622-96-8	p-Ethyltoluene	ND	140	27.	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	140	13.	U UJ
60-29-7	Ethyl ether	ND	140	24.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-33	**Date Collected**	: 06/20/23 09:20
Client ID	: 7-B1E (4-4.5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/24/23 15:12
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V31230624A21	**Instrument ID**	: VOA131
Sample Amount	: 4.4 g	**GC Column**	: RTX-VMS
Level	: HIGH	**%Solids**	: 89
Extract Volume (MeOH)	: 5 ml	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	350	99.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-34	Date Collected	: 06/20/23 09:25
Client ID	: 7-B1E (5.5-6)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 15:35
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A22	Instrument ID	: VOA131
Sample Amount	: 6.1 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 83
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	300	140	U	
75-34-3	1,1-Dichloroethane	ND	60	8.6	U	
67-66-3	Chloroform	ND	89	8.3	U	
56-23-5	Carbon tetrachloride	ND	60	14.	U	
78-87-5	1,2-Dichloropropane	ND	60	7.4	U	
124-48-1	Dibromochloromethane	ND	60	8.3	U	
79-00-5	1,1,2-Trichloroethane	ND	60	16.	U	
127-18-4	Tetrachloroethene	1900	30	12.		J+
108-90-7	Chlorobenzene	ND	30	7.6	U	
75-69-4	Trichlorofluoromethane	ND	240	41.	U	
107-06-2	1,2-Dichloroethane	ND	60	15.	U	
71-55-6	1,1,1-Trichloroethane	ND	30	9.9	U	
75-27-4	Bromodichloromethane	ND	30	6.5	U	
10061-02-6	trans-1,3-Dichloropropene	ND	60	16.	U	
10061-01-5	cis-1,3-Dichloropropene	ND	30	9.4	U	
542-75-6	1,3-Dichloropropene, Total	ND	30	9.4	U	
563-58-6	1,1-Dichloropropene	ND	30	9.5	U	
75-25-2	Bromoform	ND	240	15.	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	30	9.9	U	UJ
71-43-2	Benzene	ND	30	9.9	U	
108-88-3	Toluene	ND	60	32.	U	
100-41-4	Ethylbenzene	11	60	8.4	J	J+
74-87-3	Chloromethane	ND	240	56.	U	
74-83-9	Bromomethane	ND	120	35.	U	
75-01-4	Vinyl chloride	160	60	20.		J+

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-34	Date Collected	: 06/20/23 09:25
Client ID	: 7-B1E (5.5-6)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 15:35
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A22	Instrument ID	: VOA131
Sample Amount	: 6.1 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 83
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	120	27.	U	
75-35-4	1,1-Dichloroethene	ND	60	14.	U	
156-60-5	trans-1,2-Dichloroethene	64	89	8.2	J	J+
79-01-6	Trichloroethene	290	30	8.2		J+
95-50-1	1,2-Dichlorobenzene	4400	120	8.6		J+
541-73-1	1,3-Dichlorobenzene	160	120	8.8		J+
106-46-7	1,4-Dichlorobenzene	640	120	10.		J+
1634-04-4	Methyl tert butyl ether	ND	120	12.	U	
179601-23-1	p/m-Xylene	47	120	33.	J	J+
95-47-6	o-Xylene	ND	60	17.	U	
1330-20-7	Xylenes, Total	47	60	17.	J	J+
156-59-2	cis-1,2-Dichloroethene	4000	60	10.		J+
540-59-0	1,2-Dichloroethene, Total	4100	60	8.2	J	J+
74-95-3	Dibromomethane	ND	120	14.	U	
100-42-5	Styrene	ND	60	12.	U	
75-71-8	Dichlorodifluoromethane	ND	600	54.	U	
67-64-1	Acetone	ND	600	290	U	
75-15-0	Carbon disulfide	ND	600	270	U	
78-93-3	2-Butanone	ND	600	130	U	
108-05-4	Vinyl acetate	ND	600	130	U	
108-10-1	4-Methyl-2-pentanone	ND	600	76.	U	
96-18-4	1,2,3-Trichloropropane	ND	120	7.6	U	
591-78-6	2-Hexanone	ND	600	70.	U	
74-97-5	Bromochloromethane	ND	120	12.	U	
594-20-7	2,2-Dichloropropane	ND	120	12.	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-34	Date Collected	: 06/20/23 09:25
Client ID	: 7-B1E (5.5-6)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 15:35
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A22	Instrument ID	: VOA131
Sample Amount	: 6.1 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 83
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
106-93-4	1,2-Dibromoethane	ND	60	17.	U	
142-28-9	1,3-Dichloropropane	ND	120	9.9	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	30	7.9	U	
108-86-1	Bromobenzene	ND	120	8.6	U	
104-51-8	n-Butylbenzene	700	60	9.9		J+
135-98-8	sec-Butylbenzene	800	60	8.7		J+
98-06-6	tert-Butylbenzene	240	120	7.0		J+
95-49-8	o-Chlorotoluene	170	120	11.		J+
106-43-4	p-Chlorotoluene	ND	120	6.4	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	180	59.	U	
87-68-3	Hexachlorobutadiene	120	240	10.	J	J+
98-82-8	Isopropylbenzene	40	60	6.5	J	J+
99-87-6	p-Isopropyltoluene	1200	60	6.5		J+
91-20-3	Naphthalene	120	240	39.	J	J+
107-13-1	Acrylonitrile	ND	240	68.	U	
103-65-1	n-Propylbenzene	270	60	10.		J+
87-61-6	1,2,3-Trichlorobenzene	ND	120	19.	U	
120-82-1	1,2,4-Trichlorobenzene	280	120	16.		J+
108-67-8	1,3,5-Trimethylbenzene	630	120	11.		J+
95-63-6	1,2,4-Trimethylbenzene	1800	120	20.		J+
123-91-1	1,4-Dioxane	ND	4800	2100	U	
105-05-5	p-Diethylbenzene	3400	120	10.		J+
622-96-8	p-Ethyltoluene	640	120	23.		J+
95-93-2	1,2,4,5-Tetramethylbenzene	880	120	11.		J+
60-29-7	Ethyl ether	ND	120	20.	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-34	**Date Collected**	: 06/20/23 09:25
Client ID	: 7-B1E (5.5-6)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/24/23 15:35
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V31230624A22	**Instrument ID**	: VOA131
Sample Amount	: 6.1 g	**GC Column**	: RTX-VMS
Level	: HIGH	**%Solids**	: 83
Extract Volume (MeOH)	: 5 ml	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	300	84.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-35	Date Collected	: 06/20/23 09:30
Client ID	: 7-B1N (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 12:09
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A13	Instrument ID	: VOA131
Sample Amount	: 5.6 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 94
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	4.8	2.2	U	
75-34-3	1,1-Dichloroethane	ND	0.96	0.14	U	
67-66-3	Chloroform	ND	1.4	0.13	U	
56-23-5	Carbon tetrachloride	ND	0.96	0.22	U	
78-87-5	1,2-Dichloropropane	ND	0.96	0.12	U	
124-48-1	Dibromochloromethane	ND	0.96	0.13	U	
79-00-5	1,1,2-Trichloroethane	ND	0.96	0.26	U	
127-18-4	Tetrachloroethene	4.0	0.48	0.19		
108-90-7	Chlorobenzene	ND	0.48	0.12	U	
75-69-4	Trichlorofluoromethane	ND	3.8	0.67	U	
107-06-2	1,2-Dichloroethane	ND	0.96	0.25	U	
71-55-6	1,1,1-Trichloroethane	ND	0.48	0.16	U	
75-27-4	Bromodichloromethane	ND	0.48	0.10	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.96	0.26	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.48	0.15	U	
542-75-6	1,3-Dichloropropene, Total	ND	0.48	0.15	U	
563-58-6	1,1-Dichloropropene	ND	0.48	0.15	U	
75-25-2	Bromoform	ND	3.8	0.24	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.48	0.16	U	UJ
71-43-2	Benzene	0.65	0.48	0.16		
108-88-3	Toluene	1.2	0.96	0.52		
100-41-4	Ethylbenzene	0.83	0.96	0.14	J	
74-87-3	Chloromethane	ND	3.8	0.90	U	
74-83-9	Bromomethane	ND	1.9	0.56	U	
75-01-4	Vinyl chloride	3.5	0.96	0.32		

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-35	Date Collected	: 06/20/23 09:30
Client ID	: 7-B1N (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 12:09
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A13	Instrument ID	: VOA131
Sample Amount	: 5.6 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 94
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	1.9	0.44	U
75-35-4	1,1-Dichloroethene	ND	0.96	0.23	U
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.13	U
79-01-6	Trichloroethene	0.82	0.48	0.13	
95-50-1	1,2-Dichlorobenzene	0.79	1.9	0.14	J
541-73-1	1,3-Dichlorobenzene	ND	1.9	0.14	U
106-46-7	1,4-Dichlorobenzene	0.22	1.9	0.16	J
1634-04-4	Methyl tert butyl ether	ND	1.9	0.19	U
179601-23-1	p/m-Xylene	2.4	1.9	0.54	
95-47-6	o-Xylene	1.6	0.96	0.28	
1330-20-7	Xylenes, Total	4.0	0.96	0.28	
156-59-2	cis-1,2-Dichloroethene	4.3	0.96	0.17	
540-59-0	1,2-Dichloroethene, Total	4.3	0.96	0.13	
74-95-3	Dibromomethane	ND	1.9	0.23	U
100-42-5	Styrene	0.52	0.96	0.19	J
75-71-8	Dichlorodifluoromethane	ND	9.6	0.88	U
67-64-1	Acetone	25	9.6	4.6	
75-15-0	Carbon disulfide	ND	9.6	4.4	U
78-93-3	2-Butanone	16	9.6	2.1	
108-05-4	Vinyl acetate	ND	9.6	2.1	U
108-10-1	4-Methyl-2-pentanone	ND	9.6	1.2	U
96-18-4	1,2,3-Trichloropropane	ND	1.9	0.12	U
591-78-6	2-Hexanone	ND	9.6	1.1	U
74-97-5	Bromochloromethane	ND	1.9	0.20	U
594-20-7	2,2-Dichloropropane	ND	1.9	0.19	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-35	Date Collected	: 06/20/23 09:30
Client ID	: 7-B1N (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 12:09
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A13	Instrument ID	: VOA131
Sample Amount	: 5.6 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 94
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
106-93-4	1,2-Dibromoethane	ND	0.96	0.27	U	
142-28-9	1,3-Dichloropropane	ND	1.9	0.16	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.48	0.13	U	
108-86-1	Bromobenzene	ND	1.9	0.14	U	
104-51-8	n-Butylbenzene	0.53	0.96	0.16	J	
135-98-8	sec-Butylbenzene	0.40	0.96	0.14	J	
98-06-6	tert-Butylbenzene	ND	1.9	0.11	U	
95-49-8	o-Chlorotoluene	ND	1.9	0.18	U	
106-43-4	p-Chlorotoluene	ND	1.9	0.10	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.9	0.96	U	
87-68-3	Hexachlorobutadiene	ND	3.8	0.16	U	
98-82-8	Isopropylbenzene	0.38	0.96	0.10	J	
99-87-6	p-Isopropyltoluene	0.38	0.96	0.10	J	
91-20-3	Naphthalene	2.3	3.8	0.63	J	
107-13-1	Acrylonitrile	ND	3.8	1.1	U	
103-65-1	n-Propylbenzene	0.76	0.96	0.16	J	
87-61-6	1,2,3-Trichlorobenzene	ND	1.9	0.31	U	
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.26	U	
108-67-8	1,3,5-Trimethylbenzene	2.1	1.9	0.18		
95-63-6	1,2,4-Trimethylbenzene	5.9	1.9	0.32		
123-91-1	1,4-Dioxane	ND	77	34.	U	
105-05-5	p-Diethylbenzene	3.7	1.9	0.17		
622-96-8	p-Ethyltoluene	4.1	1.9	0.37		
95-93-2	1,2,4,5-Tetramethylbenzene	1.3	1.9	0.18	J	J-
60-29-7	Ethyl ether	ND	1.9	0.33	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-35	**Date Collected**	: 06/20/23 09:30
Client ID	: 7-B1N (1.5-2)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/24/23 12:09
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V31230624A13	**Instrument ID**	: VOA131
Sample Amount	: 5.6 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 94
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.8	1.4	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-36	Date Collected	: 06/20/23 09:35
Client ID	: 7-B1N (4-4.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 12:32
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A14	Instrument ID	: VOA131
Sample Amount	: 4.8 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 76
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	6.8	3.1	U
75-34-3	1,1-Dichloroethane	ND	1.4	0.20	U
67-66-3	Chloroform	1.0	2.0	0.19	J
56-23-5	Carbon tetrachloride	ND	1.4	0.31	U
78-87-5	1,2-Dichloropropane	ND	1.4	0.17	U
124-48-1	Dibromochloromethane	ND	1.4	0.19	U
79-00-5	1,1,2-Trichloroethane	ND	1.4	0.36	U
127-18-4	Tetrachloroethene	160	0.68	0.26	
108-90-7	Chlorobenzene	ND	0.68	0.17	U
75-69-4	Trichlorofluoromethane	ND	5.4	0.94	U
107-06-2	1,2-Dichloroethane	ND	1.4	0.35	U
71-55-6	1,1,1-Trichloroethane	ND	0.68	0.23	U
75-27-4	Bromodichloromethane	ND	0.68	0.15	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	0.37	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.68	0.21	U
542-75-6	1,3-Dichloropropene, Total	ND	0.68	0.21	U
563-58-6	1,1-Dichloropropene	ND	0.68	0.22	U
75-25-2	Bromoform	ND	5.4	0.33	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.68	0.22	U UJ
71-43-2	Benzene	ND	0.68	0.22	U
108-88-3	Toluene	ND	1.4	0.74	U
100-41-4	Ethylbenzene	ND	1.4	0.19	U
74-87-3	Chloromethane	ND	5.4	1.3	U
74-83-9	Bromomethane	ND	2.7	0.79	U
75-01-4	Vinyl chloride	ND	1.4	0.45	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-36	Date Collected	: 06/20/23 09:35
Client ID	: 7-B1N (4-4.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 12:32
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A14	Instrument ID	: VOA131
Sample Amount	: 4.8 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 76
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	2.7	0.61	U
75-35-4	1,1-Dichloroethene	ND	1.4	0.32	U
156-60-5	trans-1,2-Dichloroethene	ND	2.0	0.18	U
79-01-6	Trichloroethene	7.9	0.68	0.18	
95-50-1	1,2-Dichlorobenzene	ND	2.7	0.19	U
541-73-1	1,3-Dichlorobenzene	ND	2.7	0.20	U
106-46-7	1,4-Dichlorobenzene	ND	2.7	0.23	U
1634-04-4	Methyl tert butyl ether	ND	2.7	0.27	U
179601-23-1	p/m-Xylene	ND	2.7	0.76	U
95-47-6	o-Xylene	ND	1.4	0.39	U
1330-20-7	Xylenes, Total	ND	1.4	0.39	U
156-59-2	cis-1,2-Dichloroethene	3.8	1.4	0.24	
540-59-0	1,2-Dichloroethene, Total	3.8	1.4	0.18	
74-95-3	Dibromomethane	ND	2.7	0.32	U
100-42-5	Styrene	ND	1.4	0.26	U
75-71-8	Dichlorodifluoromethane	ND	14	1.2	U
67-64-1	Acetone	38	14	6.5	
75-15-0	Carbon disulfide	ND	14	6.2	U
78-93-3	2-Butanone	20	14	3.0	
108-05-4	Vinyl acetate	ND	14	2.9	U
108-10-1	4-Methyl-2-pentanone	ND	14	1.7	U
96-18-4	1,2,3-Trichloropropane	ND	2.7	0.17	U
591-78-6	2-Hexanone	ND	14	1.6	U
74-97-5	Bromochloromethane	ND	2.7	0.28	U
594-20-7	2,2-Dichloropropane	ND	2.7	0.27	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-36	Date Collected	: 06/20/23 09:35
Client ID	: 7-B1N (4-4.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 12:32
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A14	Instrument ID	: VOA131
Sample Amount	: 4.8 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 76
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
106-93-4	1,2-Dibromoethane	ND	1.4	0.38	U	
142-28-9	1,3-Dichloropropane	ND	2.7	0.23	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.68	0.18	U	
108-86-1	Bromobenzene	ND	2.7	0.20	U	
104-51-8	n-Butylbenzene	ND	1.4	0.23	U	
135-98-8	sec-Butylbenzene	ND	1.4	0.20	U	
98-06-6	tert-Butylbenzene	ND	2.7	0.16	U	
95-49-8	o-Chlorotoluene	ND	2.7	0.26	U	
106-43-4	p-Chlorotoluene	ND	2.7	0.15	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.1	1.4	U	
87-68-3	Hexachlorobutadiene	ND	5.4	0.23	U	
98-82-8	Isopropylbenzene	ND	1.4	0.15	U	
99-87-6	p-Isopropyltoluene	ND	1.4	0.15	U	
91-20-3	Naphthalene	ND	5.4	0.88	U	
107-13-1	Acrylonitrile	ND	5.4	1.6	U	
103-65-1	n-Propylbenzene	ND	1.4	0.23	U	
87-61-6	1,2,3-Trichlorobenzene	ND	2.7	0.44	U	
120-82-1	1,2,4-Trichlorobenzene	ND	2.7	0.37	U	
108-67-8	1,3,5-Trimethylbenzene	ND	2.7	0.26	U	
95-63-6	1,2,4-Trimethylbenzene	ND	2.7	0.45	U	
123-91-1	1,4-Dioxane	ND	110	48.	U	
105-05-5	p-Diethylbenzene	ND	2.7	0.24	U	
622-96-8	p-Ethyltoluene	ND	2.7	0.52	U	
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.7	0.26	U	UJ
60-29-7	Ethyl ether	ND	2.7	0.46	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-36	**Date Collected**	: 06/20/23 09:35
Client ID	: 7-B1N (4-4.5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/24/23 12:32
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V31230624A14	**Instrument ID**	: VOA131
Sample Amount	: 4.8 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 76
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	6.8	1.9	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-40	Date Collected	: 06/20/23 10:20
Client ID	: 7-B1S (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 12:55
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A15	Instrument ID	: VOA131
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 90
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	5.5	2.5	U	
75-34-3	1,1-Dichloroethane	ND	1.1	0.16	U	
67-66-3	Chloroform	ND	1.6	0.15	U	
56-23-5	Carbon tetrachloride	ND	1.1	0.25	U	
78-87-5	1,2-Dichloropropane	ND	1.1	0.14	U	
124-48-1	Dibromochloromethane	ND	1.1	0.15	U	
79-00-5	1,1,2-Trichloroethane	ND	1.1	0.29	U	
127-18-4	Tetrachloroethene	28	0.55	0.22		
108-90-7	Chlorobenzene	0.18	0.55	0.14	J	
75-69-4	Trichlorofluoromethane	ND	4.4	0.77	U	
107-06-2	1,2-Dichloroethane	ND	1.1	0.28	U	
71-55-6	1,1,1-Trichloroethane	ND	0.55	0.18	U	
75-27-4	Bromodichloromethane	ND	0.55	0.12	U	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.30	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.55	0.17	U	
542-75-6	1,3-Dichloropropene, Total	ND	0.55	0.17	U	
563-58-6	1,1-Dichloropropene	ND	0.55	0.18	U	
75-25-2	Bromoform	ND	4.4	0.27	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.55	0.18	U	UJ
71-43-2	Benzene	0.76	0.55	0.18		
108-88-3	Toluene	9.4	1.1	0.60		
100-41-4	Ethylbenzene	2.0	1.1	0.16		
74-87-3	Chloromethane	ND	4.4	1.0	U	
74-83-9	Bromomethane	ND	2.2	0.64	U	
75-01-4	Vinyl chloride	0.55	1.1	0.37	J	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-40	**Date Collected**	: 06/20/23 10:20
Client ID	: 7-B1S (1.5-2)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/24/23 12:55
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V31230624A15	**Instrument ID**	: VOA131
Sample Amount	: 5.0 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 90
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.2	0.50	U
75-35-4	1,1-Dichloroethene	ND	1.1	0.26	U
156-60-5	trans-1,2-Dichloroethene	0.50	1.6	0.15	J
79-01-6	Trichloroethene	2.4	0.55	0.15	
95-50-1	1,2-Dichlorobenzene	1.1	2.2	0.16	J
541-73-1	1,3-Dichlorobenzene	ND	2.2	0.16	U
106-46-7	1,4-Dichlorobenzene	0.52	2.2	0.19	J
1634-04-4	Methyl tert butyl ether	ND	2.2	0.22	U
179601-23-1	p/m-Xylene	3.3	2.2	0.62	
95-47-6	o-Xylene	2.0	1.1	0.32	
1330-20-7	Xylenes, Total	5.3	1.1	0.32	
156-59-2	cis-1,2-Dichloroethene	27	1.1	0.19	
540-59-0	1,2-Dichloroethene, Total	28	1.1	0.15	J
74-95-3	Dibromomethane	ND	2.2	0.26	U
100-42-5	Styrene	1.2	1.1	0.22	
75-71-8	Dichlorodifluoromethane	ND	11	1.0	U
67-64-1	Acetone	62	11	5.3	
75-15-0	Carbon disulfide	6.2	11	5.0	J
78-93-3	2-Butanone	9.7	11	2.4	J
108-05-4	Vinyl acetate	ND	11	2.4	U
108-10-1	4-Methyl-2-pentanone	3.4	11	1.4	J
96-18-4	1,2,3-Trichloropropane	ND	2.2	0.14	U
591-78-6	2-Hexanone	ND	11	1.3	U
74-97-5	Bromochloromethane	ND	2.2	0.22	U
594-20-7	2,2-Dichloropropane	ND	2.2	0.22	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-40	Date Collected	: 06/20/23 10:20
Client ID	: 7-B1S (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 12:55
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A15	Instrument ID	: VOA131
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 90
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	1.1	0.31	U
142-28-9	1,3-Dichloropropane	ND	2.2	0.18	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.55	0.14	U
108-86-1	Bromobenzene	ND	2.2	0.16	U
104-51-8	n-Butylbenzene	0.48	1.1	0.18	J
135-98-8	sec-Butylbenzene	0.51	1.1	0.16	J
98-06-6	tert-Butylbenzene	ND	2.2	0.13	U
95-49-8	o-Chlorotoluene	ND	2.2	0.21	U
106-43-4	p-Chlorotoluene	ND	2.2	0.12	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.3	1.1	U
87-68-3	Hexachlorobutadiene	ND	4.4	0.19	U
98-82-8	Isopropylbenzene	0.68	1.1	0.12	J
99-87-6	p-Isopropyltoluene	0.76	1.1	0.12	J
91-20-3	Naphthalene	25	4.4	0.72	
107-13-1	Acrylonitrile	ND	4.4	1.3	U
103-65-1	n-Propylbenzene	1.0	1.1	0.19	J
87-61-6	1,2,3-Trichlorobenzene	ND	2.2	0.35	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.2	0.30	U
108-67-8	1,3,5-Trimethylbenzene	3.2	2.2	0.21	
95-63-6	1,2,4-Trimethylbenzene	9.3	2.2	0.37	
123-91-1	1,4-Dioxane	ND	88	39.	U
105-05-5	p-Diethylbenzene	4.7	2.2	0.20	
622-96-8	p-Ethyltoluene	4.9	2.2	0.42	
95-93-2	1,2,4,5-Tetramethylbenzene	2.2	2.2	0.21	J-
60-29-7	Ethyl ether	ND	2.2	0.38	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-40	**Date Collected**	: 06/20/23 10:20
Client ID	: 7-B1S (1.5-2)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/24/23 12:55
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V31230624A15	**Instrument ID**	: VOA131
Sample Amount	: 5.0 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 90
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.5	1.6	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-41	Date Collected	: 06/20/23 10:25
Client ID	: 7-B1S (4-4.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 15:58
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A23	Instrument ID	: VOA131
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 89
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	300	140	U	
75-34-3	1,1-Dichloroethane	ND	59	8.6	U	
67-66-3	Chloroform	70	89	8.3	J	
56-23-5	Carbon tetrachloride	ND	59	14.	U	
78-87-5	1,2-Dichloropropane	ND	59	7.4	U	
124-48-1	Dibromochloromethane	ND	59	8.3	U	
79-00-5	1,1,2-Trichloroethane	ND	59	16.	U	
127-18-4	Tetrachloroethene	5800	30	12.		
108-90-7	Chlorobenzene	ND	30	7.6	U	
75-69-4	Trichlorofluoromethane	ND	240	41.	U	
107-06-2	1,2-Dichloroethane	ND	59	15.	U	
71-55-6	1,1,1-Trichloroethane	ND	30	9.9	U	
75-27-4	Bromodichloromethane	ND	30	6.5	U	
10061-02-6	trans-1,3-Dichloropropene	ND	59	16.	U	
10061-01-5	cis-1,3-Dichloropropene	ND	30	9.4	U	
542-75-6	1,3-Dichloropropene, Total	ND	30	9.4	U	
563-58-6	1,1-Dichloropropene	ND	30	9.4	U	
75-25-2	Bromoform	ND	240	15.	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	30	9.9	U	UJ
71-43-2	Benzene	26	30	9.9	J	
108-88-3	Toluene	ND	59	32.	U	
100-41-4	Ethylbenzene	ND	59	8.4	U	
74-87-3	Chloromethane	ND	240	55.	U	
74-83-9	Bromomethane	ND	120	34.	U	
75-01-4	Vinyl chloride	ND	59	20.	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-41	Date Collected	: 06/20/23 10:25
Client ID	: 7-B1S (4-4.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 15:58
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A23	Instrument ID	: VOA131
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 89
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	120	27.	U
75-35-4	1,1-Dichloroethene	ND	59	14.	U
156-60-5	trans-1,2-Dichloroethene	ND	89	8.1	U
79-01-6	Trichloroethene	480	30	8.1	
95-50-1	1,2-Dichlorobenzene	73	120	8.6	J
541-73-1	1,3-Dichlorobenzene	ND	120	8.8	U
106-46-7	1,4-Dichlorobenzene	20	120	10.	J
1634-04-4	Methyl tert butyl ether	ND	120	12.	U
179601-23-1	p/m-Xylene	ND	120	33.	U
95-47-6	o-Xylene	ND	59	17.	U
1330-20-7	Xylenes, Total	ND	59	17.	U
156-59-2	cis-1,2-Dichloroethene	680	59	10.	
540-59-0	1,2-Dichloroethene, Total	680	59	8.1	
74-95-3	Dibromomethane	ND	120	14.	U
100-42-5	Styrene	ND	59	12.	U
75-71-8	Dichlorodifluoromethane	ND	590	54.	U
67-64-1	Acetone	ND	590	290	U
75-15-0	Carbon disulfide	ND	590	270	U
78-93-3	2-Butanone	ND	590	130	U
108-05-4	Vinyl acetate	ND	590	130	U
108-10-1	4-Methyl-2-pentanone	ND	590	76.	U
96-18-4	1,2,3-Trichloropropane	ND	120	7.6	U
591-78-6	2-Hexanone	ND	590	70.	U
74-97-5	Bromochloromethane	ND	120	12.	U
594-20-7	2,2-Dichloropropane	ND	120	12.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-41	Date Collected	: 06/20/23 10:25
Client ID	: 7-B1S (4-4.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 15:58
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A23	Instrument ID	: VOA131
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 89
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	59	16.	U
142-28-9	1,3-Dichloropropane	ND	120	9.9	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	30	7.8	U
108-86-1	Bromobenzene	ND	120	8.6	U
104-51-8	n-Butylbenzene	ND	59	9.9	U
135-98-8	sec-Butylbenzene	ND	59	8.7	U
98-06-6	tert-Butylbenzene	ND	120	7.0	U
95-49-8	o-Chlorotoluene	ND	120	11.	U
106-43-4	p-Chlorotoluene	ND	120	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	180	59.	U
87-68-3	Hexachlorobutadiene	ND	240	10.	U
98-82-8	Isopropylbenzene	ND	59	6.5	U
99-87-6	p-Isopropyltoluene	ND	59	6.5	U
91-20-3	Naphthalene	ND	240	39.	U
107-13-1	Acrylonitrile	ND	240	68.	U
103-65-1	n-Propylbenzene	ND	59	10.	U
87-61-6	1,2,3-Trichlorobenzene	ND	120	19.	U
120-82-1	1,2,4-Trichlorobenzene	ND	120	16.	U
108-67-8	1,3,5-Trimethylbenzene	ND	120	11.	U
95-63-6	1,2,4-Trimethylbenzene	ND	120	20.	U
123-91-1	1,4-Dioxane	ND	4800	2100	U
105-05-5	p-Diethylbenzene	ND	120	10.	U
622-96-8	p-Ethyltoluene	ND	120	23.	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	120	11.	U UJ
60-29-7	Ethyl ether	ND	120	20.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-41	**Date Collected**	: 06/20/23 10:25
Client ID	: 7-B1S (4-4.5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/24/23 15:58
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V31230624A23	**Instrument ID**	: VOA131
Sample Amount	: 5.3 g	**GC Column**	: RTX-VMS
Level	: HIGH	**%Solids**	: 89
Extract Volume (MeOH)	: 5 ml	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	300	84.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-42	Date Collected	: 06/20/23 10:30
Client ID	: 7-B1S (5.5-6)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 16:21
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A24	Instrument ID	: VOA131
Sample Amount	: 5.5 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 82
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	330	150	U	
75-34-3	1,1-Dichloroethane	ND	66	9.6	U	
67-66-3	Chloroform	ND	100	9.3	U	
56-23-5	Carbon tetrachloride	ND	66	15.	U	
78-87-5	1,2-Dichloropropane	ND	66	8.3	U	
124-48-1	Dibromochloromethane	ND	66	9.3	U	
79-00-5	1,1,2-Trichloroethane	ND	66	18.	U	
127-18-4	Tetrachloroethene	640	33	13.		J+
108-90-7	Chlorobenzene	9.8	33	8.4	J	J+
75-69-4	Trichlorofluoromethane	ND	260	46.	U	
107-06-2	1,2-Dichloroethane	ND	66	17.	U	
71-55-6	1,1,1-Trichloroethane	ND	33	11.	U	
75-27-4	Bromodichloromethane	ND	33	7.2	U	
10061-02-6	trans-1,3-Dichloropropene	ND	66	18.	U	
10061-01-5	cis-1,3-Dichloropropene	ND	33	10.	U	
542-75-6	1,3-Dichloropropene, Total	ND	33	10.	U	
563-58-6	1,1-Dichloropropene	ND	33	10.	U	
75-25-2	Bromoform	ND	260	16.	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	33	11.	U	UJ
71-43-2	Benzene	ND	33	11.	U	
108-88-3	Toluene	ND	66	36.	U	
100-41-4	Ethylbenzene	11	66	9.4	J	J+
74-87-3	Chloromethane	ND	260	62.	U	
74-83-9	Bromomethane	ND	130	38.	U	
75-01-4	Vinyl chloride	370	66	22.		J+

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-42	Date Collected	: 06/20/23 10:30
Client ID	: 7-B1S (5.5-6)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 16:21
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A24	Instrument ID	: VOA131
Sample Amount	: 5.5 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 82
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	130	30.	U	
75-35-4	1,1-Dichloroethene	ND	66	16.	U	
156-60-5	trans-1,2-Dichloroethene	170	100	9.1		J+
79-01-6	Trichloroethene	240	33	9.1		J+
95-50-1	1,2-Dichlorobenzene	620	130	9.6		J+
541-73-1	1,3-Dichlorobenzene	ND	130	9.8	U	
106-46-7	1,4-Dichlorobenzene	23	130	11.	J	J+
1634-04-4	Methyl tert butyl ether	ND	130	13.	U	
179601-23-1	p/m-Xylene	ND	130	37.	U	
95-47-6	o-Xylene	ND	66	19.	U	
1330-20-7	Xylenes, Total	ND	66	19.	U	
156-59-2	cis-1,2-Dichloroethene	3300	66	12.		J+
540-59-0	1,2-Dichloroethene, Total	3500	66	9.1		J+
74-95-3	Dibromomethane	ND	130	16.	U	
100-42-5	Styrene	ND	66	13.	U	
75-71-8	Dichlorodifluoromethane	ND	660	61.	U	
67-64-1	Acetone	ND	660	320	U	
75-15-0	Carbon disulfide	ND	660	300	U	
78-93-3	2-Butanone	ND	660	150	U	
108-05-4	Vinyl acetate	ND	660	140	U	
108-10-1	4-Methyl-2-pentanone	ND	660	85.	U	
96-18-4	1,2,3-Trichloropropane	ND	130	8.4	U	
591-78-6	2-Hexanone	ND	660	78.	U	
74-97-5	Bromochloromethane	ND	130	14.	U	
594-20-7	2,2-Dichloropropane	ND	130	13.	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-42	Date Collected	: 06/20/23 10:30
Client ID	: 7-B1S (5.5-6)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 16:21
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A24	Instrument ID	: VOA131
Sample Amount	: 5.5 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 82
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
106-93-4	1,2-Dibromoethane	ND	66	18.	U	
142-28-9	1,3-Dichloropropane	ND	130	11.	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	33	8.8	U	
108-86-1	Bromobenzene	ND	130	9.6	U	
104-51-8	n-Butylbenzene	25	66	11.	J	J+
135-98-8	sec-Butylbenzene	71	66	9.7		J+
98-06-6	tert-Butylbenzene	16	130	7.8	J	J+
95-49-8	o-Chlorotoluene	65	130	13.	J	J+
106-43-4	p-Chlorotoluene	ND	130	7.2	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	66.	U	
87-68-3	Hexachlorobutadiene	ND	260	11.	U	
98-82-8	Isopropylbenzene	ND	66	7.2	U	
99-87-6	p-Isopropyltoluene	16	66	7.2	J	J+
91-20-3	Naphthalene	50	260	43.	J	J+
107-13-1	Acrylonitrile	ND	260	76.	U	
103-65-1	n-Propylbenzene	13	66	11.	J	J+
87-61-6	1,2,3-Trichlorobenzene	ND	130	21.	U	
120-82-1	1,2,4-Trichlorobenzene	ND	130	18.	U	
108-67-8	1,3,5-Trimethylbenzene	58	130	13.	J	J+
95-63-6	1,2,4-Trimethylbenzene	61	130	22.	J	J+
123-91-1	1,4-Dioxane	ND	5300	2300	U	
105-05-5	p-Diethylbenzene	290	130	12.		J+
622-96-8	p-Ethyltoluene	31	130	25.	J	J+
95-93-2	1,2,4,5-Tetramethylbenzene	120	130	13.	J	J+
60-29-7	Ethyl ether	ND	130	23.	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-42	**Date Collected**	: 06/20/23 10:30
Client ID	: 7-B1S (5.5-6)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/24/23 16:21
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V31230624A24	**Instrument ID**	: VOA131
Sample Amount	: 5.5 g	**GC Column**	: RTX-VMS
Level	: HIGH	**%Solids**	: 82
Extract Volume (MeOH)	: 5 ml	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	330	94.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-42R	Date Collected	: 06/20/23 10:30
Client ID	: 7-B1S (5.5-6)RE	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/27/23 20:34
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230627N07	Instrument ID	: VOA131
Sample Amount	: 5.5 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 82
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	330	150	U
75-34-3	1,1-Dichloroethane	ND	66	9.6	U
67-66-3	Chloroform	ND	100	9.3	U
56-23-5	Carbon tetrachloride	ND	66	15.	U
78-87-5	1,2-Dichloropropane	ND	66	8.3	U
124-48-1	Dibromochloromethane	ND	66	9.3	U
79-00-5	1,1,2-Trichloroethane	ND	66	18.	U
127-18-4	Tetrachloroethene	1400	33	13.	J+
108-90-7	Chlorobenzene	ND	33	8.4	U
75-69-4	Trichlorofluoromethane	ND	260	46.	U
107-06-2	1,2-Dichloroethane	ND	66	17.	U
71-55-6	1,1,1-Trichloroethane	ND	33	11.	U
75-27-4	Bromodichloromethane	ND	33	7.2	U
10061-02-6	trans-1,3-Dichloropropene	ND	66	18.	U
10061-01-5	cis-1,3-Dichloropropene	ND	33	10.	U
542-75-6	1,3-Dichloropropene, Total	ND	33	10.	U
563-58-6	1,1-Dichloropropene	ND	33	10.	U
75-25-2	Bromoform	ND	260	16.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	33	11.	U UJ
71-43-2	Benzene	26	33	11.	J J+
108-88-3	Toluene	49	66	36.	J J+
100-41-4	Ethylbenzene	12	66	9.4	J J+
74-87-3	Chloromethane	ND	260	62.	U
74-83-9	Bromomethane	ND	130	38.	U
75-01-4	Vinyl chloride	750	66	22.	J+

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-42R	Date Collected	: 06/20/23 10:30
Client ID	: 7-B1S (5.5-6)RE	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/27/23 20:34
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230627N07	Instrument ID	: VOA131
Sample Amount	: 5.5 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 82
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	130	30.	U	
75-35-4	1,1-Dichloroethene	ND	66	16.	U	
156-60-5	trans-1,2-Dichloroethene	330	100	9.1		J+
79-01-6	Trichloroethene	600	33	9.1		J+
95-50-1	1,2-Dichlorobenzene	680	130	9.6		J+
541-73-1	1,3-Dichlorobenzene	12	130	9.8	J	J+
106-46-7	1,4-Dichlorobenzene	33	130	11.	J	J+
1634-04-4	Methyl tert butyl ether	ND	130	13.	U	
179601-23-1	p/m-Xylene	ND	130	37.	U	
95-47-6	o-Xylene	ND	66	19.	U	
1330-20-7	Xylenes, Total	ND	66	19.	U	
156-59-2	cis-1,2-Dichloroethene	10000	66	12.		J+
540-59-0	1,2-Dichloroethene, Total	10000	66	9.1		J+
74-95-3	Dibromomethane	ND	130	16.	U	
100-42-5	Styrene	ND	66	13.	U	
75-71-8	Dichlorodifluoromethane	ND	660	61.	U	
67-64-1	Acetone	ND	660	320	U	
75-15-0	Carbon disulfide	ND	660	300	U	
78-93-3	2-Butanone	ND	660	150	U	
108-05-4	Vinyl acetate	ND	660	140	U	
108-10-1	4-Methyl-2-pentanone	ND	660	85.	U	
96-18-4	1,2,3-Trichloropropane	ND	130	8.4	U	
591-78-6	2-Hexanone	ND	660	78.	U	
74-97-5	Bromochloromethane	ND	130	14.	U	
594-20-7	2,2-Dichloropropane	ND	130	13.	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-42R	Date Collected	: 06/20/23 10:30
Client ID	: 7-B1S (5.5-6)RE	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/27/23 20:34
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230627N07	Instrument ID	: VOA131
Sample Amount	: 5.5 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 82
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
106-93-4	1,2-Dibromoethane	ND	66	18.	U	
142-28-9	1,3-Dichloropropane	ND	130	11.	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	33	8.8	U	
108-86-1	Bromobenzene	ND	130	9.6	U	
104-51-8	n-Butylbenzene	26	66	11.	J	J+
135-98-8	sec-Butylbenzene	66	66	9.7		J+
98-06-6	tert-Butylbenzene	15	130	7.8	J	J+
95-49-8	o-Chlorotoluene	65	130	13.	J	J+
106-43-4	p-Chlorotoluene	ND	130	7.2	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	66.	U	
87-68-3	Hexachlorobutadiene	ND	260	11.	U	
98-82-8	Isopropylbenzene	ND	66	7.2	U	
99-87-6	p-Isopropyltoluene	21	66	7.2	J	J+
91-20-3	Naphthalene	60	260	43.	J	J+
107-13-1	Acrylonitrile	ND	260	76.	U	
103-65-1	n-Propylbenzene	17	66	11.	J	J+
87-61-6	1,2,3-Trichlorobenzene	ND	130	21.	U	
120-82-1	1,2,4-Trichlorobenzene	ND	130	18.	U	
108-67-8	1,3,5-Trimethylbenzene	65	130	13.	J	J+
95-63-6	1,2,4-Trimethylbenzene	80	130	22.	J	J+
123-91-1	1,4-Dioxane	ND	5300	2300	U	
105-05-5	p-Diethylbenzene	ND	130	12.	U	
622-96-8	p-Ethyltoluene	43	130	25.	J	J+
95-93-2	1,2,4,5-Tetramethylbenzene	120	130	13.	J	J+
60-29-7	Ethyl ether	ND	130	23.	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-42R	Date Collected	: 06/20/23 10:30
Client ID	: 7-B1S (5.5-6)RE	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/27/23 20:34
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230627N07	Instrument ID	: VOA131
Sample Amount	: 5.5 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 82
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
110-57-6	trans-1,4-Dichloro-2-butene	ND	330	94.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-44	Date Collected	: 06/20/23 11:40
Client ID	: 7-B1SS (5-5.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/03/23 10:26
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V26230703A07	Instrument ID	: VOA126
Sample Amount	: 6.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 83
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	5.0	2.3	U
75-34-3	1,1-Dichloroethane	0.17	1.0	0.14	J
67-66-3	Chloroform	1.7	1.5	0.14	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	U
124-48-1	Dibromochloromethane	ND	1.0	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.27	U
127-18-4	Tetrachloroethene	38	0.50	0.20	
108-90-7	Chlorobenzene	ND	0.50	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.0	0.70	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	U
75-27-4	Bromodichloromethane	ND	0.50	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.27	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
75-25-2	Bromoform	ND	4.0	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.17	U
108-88-3	Toluene	ND	1.0	0.54	U
100-41-4	Ethylbenzene	ND	1.0	0.14	U
74-87-3	Chloromethane	ND	4.0	0.93	U
74-83-9	Bromomethane	ND	2.0	0.58	U
75-01-4	Vinyl chloride	3.5	1.0	0.34	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-44	Date Collected	: 06/20/23 11:40
Client ID	: 7-B1SS (5-5.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/03/23 10:26
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V26230703A07	Instrument ID	: VOA126
Sample Amount	: 6.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 83
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	2.0	0.45	U	
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	U	
156-60-5	trans-1,2-Dichloroethene	2.8	1.5	0.14		
79-01-6	Trichloroethene	19	0.50	0.14		
95-50-1	1,2-Dichlorobenzene	2.4	2.0	0.14		
541-73-1	1,3-Dichlorobenzene	0.78	2.0	0.15	J	
106-46-7	1,4-Dichlorobenzene	1.2	2.0	0.17	J	
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U	
179601-23-1	p/m-Xylene	ND	2.0	0.56	U	
95-47-6	o-Xylene	ND	1.0	0.29	U	
1330-20-7	Xylenes, Total	ND	1.0	0.29	U	
156-59-2	cis-1,2-Dichloroethene	23	1.0	0.18		
540-59-0	1,2-Dichloroethene, Total	26	1.0	0.14		
74-95-3	Dibromomethane	ND	2.0	0.24	U	
100-42-5	Styrene	ND	1.0	0.20	U	
75-71-8	Dichlorodifluoromethane	ND	10	0.92	U	
67-64-1	Acetone	9.4	10	4.8	J	
75-15-0	Carbon disulfide	ND	10	4.6	U	
78-93-3	2-Butanone	3.0	10	2.2	J	
108-05-4	Vinyl acetate	ND	10	2.2	U	UJ
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.13	U	
591-78-6	2-Hexanone	ND	10	1.2	U	
74-97-5	Bromochloromethane	ND	2.0	0.20	U	
594-20-7	2,2-Dichloropropane	ND	2.0	0.20	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-44	Date Collected	: 06/20/23 11:40
Client ID	: 7-B1SS (5-5.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/03/23 10:26
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V26230703A07	Instrument ID	: VOA126
Sample Amount	: 6.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 83
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	U
142-28-9	1,3-Dichloropropane	ND	2.0	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
108-86-1	Bromobenzene	ND	2.0	0.14	U
104-51-8	n-Butylbenzene	ND	1.0	0.17	U
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U
98-06-6	tert-Butylbenzene	ND	2.0	0.12	U
95-49-8	o-Chlorotoluene	0.38	2.0	0.19	J
106-43-4	p-Chlorotoluene	ND	2.0	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	1.0	U
87-68-3	Hexachlorobutadiene	ND	4.0	0.17	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.11	U
91-20-3	Naphthalene	0.92	4.0	0.65	J
107-13-1	Acrylonitrile	ND	4.0	1.2	U
103-65-1	n-Propylbenzene	ND	1.0	0.17	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.32	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.27	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.19	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.33	U
123-91-1	1,4-Dioxane	ND	80	35.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.18	U
622-96-8	p-Ethyltoluene	ND	2.0	0.38	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.19	U
60-29-7	Ethyl ether	ND	2.0	0.34	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-44	**Date Collected**	: 06/20/23 11:40
Client ID	: 7-B1SS (5-5.5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 07/03/23 10:26
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V26230703A07	**Instrument ID**	: VOA126
Sample Amount	: 6.0 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 83
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	1.4	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-45	Date Collected	: 06/20/23 12:00
Client ID	: 10-B6W (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 13:18
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A16	Instrument ID	: VOA131
Sample Amount	: 5.2 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 91
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	5.3	2.4	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.15	U
67-66-3	Chloroform	ND	1.6	0.15	U
56-23-5	Carbon tetrachloride	ND	1.0	0.24	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	1.0	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	U
127-18-4	Tetrachloroethene	15	0.53	0.21	
108-90-7	Chlorobenzene	ND	0.53	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.2	0.74	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.27	U
71-55-6	1,1,1-Trichloroethane	ND	0.53	0.18	U
75-27-4	Bromodichloromethane	ND	0.53	0.12	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.29	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.53	0.17	U
542-75-6	1,3-Dichloropropene, Total	ND	0.53	0.17	U
563-58-6	1,1-Dichloropropene	ND	0.53	0.17	U
75-25-2	Bromoform	ND	4.2	0.26	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.53	0.18	U UJ
71-43-2	Benzene	0.49	0.53	0.18	J
108-88-3	Toluene	ND	1.0	0.58	U
100-41-4	Ethylbenzene	ND	1.0	0.15	U
74-87-3	Chloromethane	ND	4.2	0.99	U
74-83-9	Bromomethane	ND	2.1	0.62	U
75-01-4	Vinyl chloride	ND	1.0	0.35	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-45	Date Collected	: 06/20/23 12:00
Client ID	: 10-B6W (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 13:18
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A16	Instrument ID	: VOA131
Sample Amount	: 5.2 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 91
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	2.1	0.48	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.25	U
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.14	U
79-01-6	Trichloroethene	1.1	0.53	0.14	
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.15	U
541-73-1	1,3-Dichlorobenzene	ND	2.1	0.16	U
106-46-7	1,4-Dichlorobenzene	ND	2.1	0.18	U
1634-04-4	Methyl tert butyl ether	ND	2.1	0.21	U
179601-23-1	p/m-Xylene	ND	2.1	0.59	U
95-47-6	o-Xylene	ND	1.0	0.31	U
1330-20-7	Xylenes, Total	ND	1.0	0.31	U
156-59-2	cis-1,2-Dichloroethene	2.1	1.0	0.18	
540-59-0	1,2-Dichloroethene, Total	2.1	1.0	0.14	
74-95-3	Dibromomethane	ND	2.1	0.25	U
100-42-5	Styrene	ND	1.0	0.21	U
75-71-8	Dichlorodifluoromethane	ND	10	0.97	U
67-64-1	Acetone	60	10	5.1	
75-15-0	Carbon disulfide	ND	10	4.8	U
78-93-3	2-Butanone	13	10	2.4	
108-05-4	Vinyl acetate	ND	10	2.3	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.4	U
96-18-4	1,2,3-Trichloropropane	ND	2.1	0.13	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.1	0.22	U
594-20-7	2,2-Dichloropropane	ND	2.1	0.21	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-45	Date Collected	: 06/20/23 12:00
Client ID	: 10-B6W (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 13:18
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A16	Instrument ID	: VOA131
Sample Amount	: 5.2 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 91
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	U	
142-28-9	1,3-Dichloropropane	ND	2.1	0.18	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.53	0.14	U	
108-86-1	Bromobenzene	ND	2.1	0.15	U	
104-51-8	n-Butylbenzene	ND	1.0	0.18	U	
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U	
98-06-6	tert-Butylbenzene	ND	2.1	0.12	U	
95-49-8	o-Chlorotoluene	ND	2.1	0.20	U	
106-43-4	p-Chlorotoluene	ND	2.1	0.11	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.2	1.0	U	
87-68-3	Hexachlorobutadiene	ND	4.2	0.18	U	
98-82-8	Isopropylbenzene	ND	1.0	0.12	U	
99-87-6	p-Isopropyltoluene	0.13	1.0	0.12	J	
91-20-3	Naphthalene	0.88	4.2	0.69	J	
107-13-1	Acrylonitrile	ND	4.2	1.2	U	
103-65-1	n-Propylbenzene	ND	1.0	0.18	U	
87-61-6	1,2,3-Trichlorobenzene	ND	2.1	0.34	U	
120-82-1	1,2,4-Trichlorobenzene	ND	2.1	0.29	U	
108-67-8	1,3,5-Trimethylbenzene	0.41	2.1	0.20	J	
95-63-6	1,2,4-Trimethylbenzene	ND	2.1	0.35	U	
123-91-1	1,4-Dioxane	ND	85	37.	U	
105-05-5	p-Diethylbenzene	2.1	2.1	0.19		
622-96-8	p-Ethyltoluene	ND	2.1	0.41	U	
95-93-2	1,2,4,5-Tetramethylbenzene	0.78	2.1	0.20	J	J-
60-29-7	Ethyl ether	ND	2.1	0.36	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-45	**Date Collected**	: 06/20/23 12:00
Client ID	: 10-B6W (1.5-2)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/24/23 13:18
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V31230624A16	**Instrument ID**	: VOA131
Sample Amount	: 5.2 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 91
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.3	1.5	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-46	Date Collected	: 06/20/23 12:05
Client ID	: 10-B6W (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 16:44
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A25	Instrument ID	: VOA131
Sample Amount	: 5.7 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 89
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	270	120	U
75-34-3	1,1-Dichloroethane	ND	55	7.9	U
67-66-3	Chloroform	24	82	7.7	J
56-23-5	Carbon tetrachloride	ND	55	12.	U
78-87-5	1,2-Dichloropropane	ND	55	6.8	U
124-48-1	Dibromochloromethane	ND	55	7.7	U
79-00-5	1,1,2-Trichloroethane	ND	55	15.	U
127-18-4	Tetrachloroethene	13000	27	11.	J
108-90-7	Chlorobenzene	ND	27	7.0	U
75-69-4	Trichlorofluoromethane	ND	220	38.	U
107-06-2	1,2-Dichloroethane	ND	55	14.	U
71-55-6	1,1,1-Trichloroethane	ND	27	9.1	U
75-27-4	Bromodichloromethane	ND	27	6.0	U
10061-02-6	trans-1,3-Dichloropropene	ND	55	15.	U
10061-01-5	cis-1,3-Dichloropropene	ND	27	8.6	U
542-75-6	1,3-Dichloropropene, Total	ND	27	8.6	U
563-58-6	1,1-Dichloropropene	ND	27	8.7	U
75-25-2	Bromoform	ND	220	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	27	9.1	U UJ
71-43-2	Benzene	ND	27	9.1	U
108-88-3	Toluene	ND	55	30.	U
100-41-4	Ethylbenzene	ND	55	7.7	U
74-87-3	Chloromethane	ND	220	51.	U
74-83-9	Bromomethane	ND	110	32.	U
75-01-4	Vinyl chloride	ND	55	18.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-46	Date Collected	: 06/20/23 12:05
Client ID	: 10-B6W (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 16:44
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A25	Instrument ID	: VOA131
Sample Amount	: 5.7 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 89
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	110	25.	U
75-35-4	1,1-Dichloroethene	ND	55	13.	U
156-60-5	trans-1,2-Dichloroethene	ND	82	7.5	U
79-01-6	Trichloroethene	740	27	7.5	
95-50-1	1,2-Dichlorobenzene	ND	110	7.9	U
541-73-1	1,3-Dichlorobenzene	ND	110	8.1	U
106-46-7	1,4-Dichlorobenzene	ND	110	9.4	U
1634-04-4	Methyl tert butyl ether	ND	110	11.	U
179601-23-1	p/m-Xylene	ND	110	31.	U
95-47-6	o-Xylene	ND	55	16.	U
1330-20-7	Xylenes, Total	ND	55	16.	U
156-59-2	cis-1,2-Dichloroethene	310	55	9.6	
540-59-0	1,2-Dichloroethene, Total	310	55	7.5	
74-95-3	Dibromomethane	ND	110	13.	U
100-42-5	Styrene	ND	55	11.	U
75-71-8	Dichlorodifluoromethane	ND	550	50.	U
67-64-1	Acetone	ND	550	260	U
75-15-0	Carbon disulfide	ND	550	250	U
78-93-3	2-Butanone	ND	550	120	U
108-05-4	Vinyl acetate	ND	550	120	U
108-10-1	4-Methyl-2-pentanone	ND	550	70.	U
96-18-4	1,2,3-Trichloropropane	ND	110	7.0	U
591-78-6	2-Hexanone	ND	550	64.	U
74-97-5	Bromochloromethane	ND	110	11.	U
594-20-7	2,2-Dichloropropane	ND	110	11.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-46	Date Collected	: 06/20/23 12:05
Client ID	: 10-B6W (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 16:44
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A25	Instrument ID	: VOA131
Sample Amount	: 5.7 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 89
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
106-93-4	1,2-Dibromoethane	ND	55	15.	U	
142-28-9	1,3-Dichloropropane	ND	110	9.1	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	27	7.2	U	
108-86-1	Bromobenzene	ND	110	7.9	U	
104-51-8	n-Butylbenzene	ND	55	9.1	U	
135-98-8	sec-Butylbenzene	ND	55	8.0	U	
98-06-6	tert-Butylbenzene	ND	110	6.4	U	
95-49-8	o-Chlorotoluene	ND	110	10.	U	
106-43-4	p-Chlorotoluene	ND	110	5.9	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	160	55.	U	
87-68-3	Hexachlorobutadiene	ND	220	9.2	U	
98-82-8	Isopropylbenzene	ND	55	6.0	U	
99-87-6	p-Isopropyltoluene	ND	55	6.0	U	
91-20-3	Naphthalene	210	220	36.	J	
107-13-1	Acrylonitrile	ND	220	63.	U	
103-65-1	n-Propylbenzene	ND	55	9.4	U	
87-61-6	1,2,3-Trichlorobenzene	ND	110	18.	U	
120-82-1	1,2,4-Trichlorobenzene	ND	110	15.	U	
108-67-8	1,3,5-Trimethylbenzene	ND	110	10.	U	
95-63-6	1,2,4-Trimethylbenzene	ND	110	18.	U	
123-91-1	1,4-Dioxane	ND	4400	1900	U	
105-05-5	p-Diethylbenzene	ND	110	9.7	U	
622-96-8	p-Ethyltoluene	ND	110	21.	U	
95-93-2	1,2,4,5-Tetramethylbenzene	ND	110	10.	U	UJ
60-29-7	Ethyl ether	ND	110	19.	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-46	**Date Collected**	: 06/20/23 12:05
Client ID	: 10-B6W (4.5-5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/24/23 16:44
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V31230624A25	**Instrument ID**	: VOA131
Sample Amount	: 5.7 g	**GC Column**	: RTX-VMS
Level	: HIGH	**%Solids**	: 89
Extract Volume (MeOH)	: 5 ml	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	270	78.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-47	Date Collected	: 06/20/23 12:10
Client ID	: 10-B6W (7.5-8)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 13:41
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A17	Instrument ID	: VOA131
Sample Amount	: 6.7 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 87
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	4.3	2.0	U
75-34-3	1,1-Dichloroethane	ND	0.86	0.12	U
67-66-3	Chloroform	0.18	1.3	0.12	J
56-23-5	Carbon tetrachloride	ND	0.86	0.20	U
78-87-5	1,2-Dichloropropane	ND	0.86	0.11	U
124-48-1	Dibromochloromethane	ND	0.86	0.12	U
79-00-5	1,1,2-Trichloroethane	ND	0.86	0.23	U
127-18-4	Tetrachloroethene	66	0.43	0.17	
108-90-7	Chlorobenzene	ND	0.43	0.11	U
75-69-4	Trichlorofluoromethane	ND	3.4	0.60	U
107-06-2	1,2-Dichloroethane	ND	0.86	0.22	U
71-55-6	1,1,1-Trichloroethane	ND	0.43	0.14	U
75-27-4	Bromodichloromethane	ND	0.43	0.09	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.86	0.23	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.43	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.43	0.14	U
563-58-6	1,1-Dichloropropene	ND	0.43	0.14	U
75-25-2	Bromoform	ND	3.4	0.21	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.43	0.14	U UJ
71-43-2	Benzene	ND	0.43	0.14	U
108-88-3	Toluene	ND	0.86	0.46	U
100-41-4	Ethylbenzene	ND	0.86	0.12	U
74-87-3	Chloromethane	ND	3.4	0.80	U
74-83-9	Bromomethane	ND	1.7	0.50	U
75-01-4	Vinyl chloride	51	0.86	0.29	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-47	**Date Collected**	: 06/20/23 12:10
Client ID	: 10-B6W (7.5-8)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/24/23 13:41
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V31230624A17	**Instrument ID**	: VOA131
Sample Amount	: 6.7 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 87
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	1.7	0.39	U
75-35-4	1,1-Dichloroethene	ND	0.86	0.20	U
156-60-5	trans-1,2-Dichloroethene	5.2	1.3	0.12	
79-01-6	Trichloroethene	14	0.43	0.12	
95-50-1	1,2-Dichlorobenzene	ND	1.7	0.12	U
541-73-1	1,3-Dichlorobenzene	ND	1.7	0.13	U
106-46-7	1,4-Dichlorobenzene	ND	1.7	0.15	U
1634-04-4	Methyl tert butyl ether	ND	1.7	0.17	U
179601-23-1	p/m-Xylene	ND	1.7	0.48	U
95-47-6	o-Xylene	ND	0.86	0.25	U
1330-20-7	Xylenes, Total	ND	0.86	0.25	U
156-59-2	cis-1,2-Dichloroethene	54	0.86	0.15	
540-59-0	1,2-Dichloroethene, Total	59	0.86	0.12	
74-95-3	Dibromomethane	ND	1.7	0.20	U
100-42-5	Styrene	ND	0.86	0.17	U
75-71-8	Dichlorodifluoromethane	ND	8.6	0.78	U
67-64-1	Acetone	11	8.6	4.1	
75-15-0	Carbon disulfide	ND	8.6	3.9	U
78-93-3	2-Butanone	3.1	8.6	1.9	J
108-05-4	Vinyl acetate	ND	8.6	1.8	U
108-10-1	4-Methyl-2-pentanone	ND	8.6	1.1	U
96-18-4	1,2,3-Trichloropropane	ND	1.7	0.11	U
591-78-6	2-Hexanone	ND	8.6	1.0	U
74-97-5	Bromochloromethane	ND	1.7	0.18	U
594-20-7	2,2-Dichloropropane	ND	1.7	0.17	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-47	Date Collected	: 06/20/23 12:10
Client ID	: 10-B6W (7.5-8)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/24/23 13:41
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V31230624A17	Instrument ID	: VOA131
Sample Amount	: 6.7 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 87
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
106-93-4	1,2-Dibromoethane	ND	0.86	0.24	U	
142-28-9	1,3-Dichloropropane	ND	1.7	0.14	U	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.43	0.11	U	
108-86-1	Bromobenzene	ND	1.7	0.12	U	
104-51-8	n-Butylbenzene	ND	0.86	0.14	U	
135-98-8	sec-Butylbenzene	ND	0.86	0.12	U	
98-06-6	tert-Butylbenzene	ND	1.7	0.10	U	
95-49-8	o-Chlorotoluene	ND	1.7	0.16	U	
106-43-4	p-Chlorotoluene	ND	1.7	0.09	U	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.6	0.86	U	
87-68-3	Hexachlorobutadiene	ND	3.4	0.14	U	
98-82-8	Isopropylbenzene	ND	0.86	0.09	U	
99-87-6	p-Isopropyltoluene	ND	0.86	0.09	U	
91-20-3	Naphthalene	ND	3.4	0.56	U	
107-13-1	Acrylonitrile	ND	3.4	0.99	U	
103-65-1	n-Propylbenzene	ND	0.86	0.15	U	
87-61-6	1,2,3-Trichlorobenzene	ND	1.7	0.28	U	
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.23	U	
108-67-8	1,3,5-Trimethylbenzene	ND	1.7	0.16	U	
95-63-6	1,2,4-Trimethylbenzene	ND	1.7	0.29	U	
123-91-1	1,4-Dioxane	ND	69	30.	U	
105-05-5	p-Diethylbenzene	ND	1.7	0.15	U	
622-96-8	p-Ethyltoluene	ND	1.7	0.33	U	
95-93-2	1,2,4,5-Tetramethylbenzene	ND	1.7	0.16	U	UJ
60-29-7	Ethyl ether	ND	1.7	0.29	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-47	**Date Collected**	: 06/20/23 12:10
Client ID	: 10-B6W (7.5-8)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/24/23 13:41
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: LAC
Lab File ID	: V31230624A17	**Instrument ID**	: VOA131
Sample Amount	: 6.7 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 87
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.3	1.2	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-49	**Date Collected**	: 06/20/23 13:05
Client ID	: 10-B6WW (4.5-5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 07/03/23 09:48
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V26230703A06	**Instrument ID**	: VOA126
Sample Amount	: 6.4 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 92
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	4.3	2.0	U
75-34-3	1,1-Dichloroethane	ND	0.86	0.12	U
67-66-3	Chloroform	ND	1.3	0.12	U
56-23-5	Carbon tetrachloride	ND	0.86	0.20	U
78-87-5	1,2-Dichloropropane	ND	0.86	0.11	U
124-48-1	Dibromochloromethane	ND	0.86	0.12	U
79-00-5	1,1,2-Trichloroethane	ND	0.86	0.23	U
127-18-4	Tetrachloroethene	0.63	0.43	0.17	
108-90-7	Chlorobenzene	ND	0.43	0.11	U
75-69-4	Trichlorofluoromethane	ND	3.4	0.60	U
107-06-2	1,2-Dichloroethane	ND	0.86	0.22	U
71-55-6	1,1,1-Trichloroethane	ND	0.43	0.14	U
75-27-4	Bromodichloromethane	ND	0.43	0.09	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.86	0.23	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.43	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.43	0.14	U
563-58-6	1,1-Dichloropropene	ND	0.43	0.14	U
75-25-2	Bromoform	ND	3.4	0.21	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.43	0.14	U
71-43-2	Benzene	ND	0.43	0.14	U
108-88-3	Toluene	ND	0.86	0.47	U
100-41-4	Ethylbenzene	ND	0.86	0.12	U
74-87-3	Chloromethane	ND	3.4	0.80	U
74-83-9	Bromomethane	ND	1.7	0.50	U
75-01-4	Vinyl chloride	1.7	0.86	0.29	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-49	Date Collected	: 06/20/23 13:05
Client ID	: 10-B6WW (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/03/23 09:48
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V26230703A06	Instrument ID	: VOA126
Sample Amount	: 6.4 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 92
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	1.7	0.39	U	
75-35-4	1,1-Dichloroethene	ND	0.86	0.20	U	
156-60-5	trans-1,2-Dichloroethene	0.29	1.3	0.12	J	
79-01-6	Trichloroethene	0.30	0.43	0.12	J	
95-50-1	1,2-Dichlorobenzene	ND	1.7	0.12	U	
541-73-1	1,3-Dichlorobenzene	ND	1.7	0.13	U	
106-46-7	1,4-Dichlorobenzene	ND	1.7	0.15	U	
1634-04-4	Methyl tert butyl ether	ND	1.7	0.17	U	
179601-23-1	p/m-Xylene	ND	1.7	0.48	U	
95-47-6	o-Xylene	ND	0.86	0.25	U	
1330-20-7	Xylenes, Total	ND	0.86	0.25	U	
156-59-2	cis-1,2-Dichloroethene	4.8	0.86	0.15		
540-59-0	1,2-Dichloroethene, Total	5.1	0.86	0.12	J	
74-95-3	Dibromomethane	ND	1.7	0.20	U	
100-42-5	Styrene	ND	0.86	0.17	U	
75-71-8	Dichlorodifluoromethane	ND	8.6	0.78	U	
67-64-1	Acetone	32	8.6	4.1		
75-15-0	Carbon disulfide	ND	8.6	3.9	U	
78-93-3	2-Butanone	8.6	8.6	1.9		
108-05-4	Vinyl acetate	ND	8.6	1.8	U	UJ
108-10-1	4-Methyl-2-pentanone	ND	8.6	1.1	U	
96-18-4	1,2,3-Trichloropropane	ND	1.7	0.11	U	
591-78-6	2-Hexanone	ND	8.6	1.0	U	
74-97-5	Bromochloromethane	ND	1.7	0.18	U	
594-20-7	2,2-Dichloropropane	ND	1.7	0.17	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-49	Date Collected	: 06/20/23 13:05
Client ID	: 10-B6WW (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/03/23 09:48
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V26230703A06	Instrument ID	: VOA126
Sample Amount	: 6.4 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 92
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	0.86	0.24	U
142-28-9	1,3-Dichloropropane	ND	1.7	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.43	0.11	U
108-86-1	Bromobenzene	ND	1.7	0.12	U
104-51-8	n-Butylbenzene	ND	0.86	0.14	U
135-98-8	sec-Butylbenzene	ND	0.86	0.12	U
98-06-6	tert-Butylbenzene	ND	1.7	0.10	U
95-49-8	o-Chlorotoluene	ND	1.7	0.16	U
106-43-4	p-Chlorotoluene	ND	1.7	0.09	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.6	0.86	U
87-68-3	Hexachlorobutadiene	ND	3.4	0.14	U
98-82-8	Isopropylbenzene	ND	0.86	0.09	U
99-87-6	p-Isopropyltoluene	ND	0.86	0.09	U
91-20-3	Naphthalene	ND	3.4	0.56	U
107-13-1	Acrylonitrile	ND	3.4	0.99	U
103-65-1	n-Propylbenzene	ND	0.86	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.7	0.28	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.7	0.23	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.7	0.16	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.7	0.29	U
123-91-1	1,4-Dioxane	ND	69	30.	U
105-05-5	p-Diethylbenzene	ND	1.7	0.15	U
622-96-8	p-Ethyltoluene	ND	1.7	0.33	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	1.7	0.16	U
60-29-7	Ethyl ether	ND	1.7	0.29	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-49	**Date Collected**	: 06/20/23 13:05
Client ID	: 10-B6WW (4.5-5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 07/03/23 09:48
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V26230703A06	**Instrument ID**	: VOA126
Sample Amount	: 6.4 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 92
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.3	1.2	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-50	Date Collected	: 06/20/23 13:10
Client ID	: 10-B6WW (9.5-10)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/01/23 23:16
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V10230701C23	Instrument ID	: VOA110
Sample Amount	: 6.5 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 87
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	4.4	2.0	U
75-34-3	1,1-Dichloroethane	ND	0.88	0.13	U
67-66-3	Chloroform	ND	1.3	0.12	U
56-23-5	Carbon tetrachloride	ND	0.88	0.20	U
78-87-5	1,2-Dichloropropane	ND	0.88	0.11	U
124-48-1	Dibromochloromethane	ND	0.88	0.12	U
79-00-5	1,1,2-Trichloroethane	ND	0.88	0.23	U
127-18-4	Tetrachloroethene	ND	0.44	0.17	U
108-90-7	Chlorobenzene	ND	0.44	0.11	U
75-69-4	Trichlorofluoromethane	ND	3.5	0.61	U
107-06-2	1,2-Dichloroethane	ND	0.88	0.22	U
71-55-6	1,1,1-Trichloroethane	ND	0.44	0.15	U
75-27-4	Bromodichloromethane	ND	0.44	0.10	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.88	0.24	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.44	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.44	0.14	U
563-58-6	1,1-Dichloropropene	ND	0.44	0.14	U
75-25-2	Bromoform	ND	3.5	0.22	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.44	0.14	U
71-43-2	Benzene	0.16	0.44	0.14	J
108-88-3	Toluene	ND	0.88	0.48	U
100-41-4	Ethylbenzene	ND	0.88	0.12	U
74-87-3	Chloromethane	ND	3.5	0.82	U
74-83-9	Bromomethane	ND	1.8	0.51	U
75-01-4	Vinyl chloride	ND	0.88	0.29	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-50	**Date Collected**	: 06/20/23 13:10
Client ID	: 10-B6WW (9.5-10)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 07/01/23 23:16
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: AJK
Lab File ID	: V10230701C23	**Instrument ID**	: VOA110
Sample Amount	: 6.5 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 87
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	1.8	0.40	U
75-35-4	1,1-Dichloroethene	ND	0.88	0.21	U
156-60-5	trans-1,2-Dichloroethene	0.26	1.3	0.12	J
79-01-6	Trichloroethene	ND	0.44	0.12	U
95-50-1	1,2-Dichlorobenzene	ND	1.8	0.13	U
541-73-1	1,3-Dichlorobenzene	ND	1.8	0.13	U
106-46-7	1,4-Dichlorobenzene	ND	1.8	0.15	U
1634-04-4	Methyl tert butyl ether	ND	1.8	0.18	U
179601-23-1	p/m-Xylene	ND	1.8	0.49	U
95-47-6	o-Xylene	ND	0.88	0.25	U
1330-20-7	Xylenes, Total	ND	0.88	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.22	0.88	0.15	J
540-59-0	1,2-Dichloroethene, Total	0.48	0.88	0.12	J
74-95-3	Dibromomethane	ND	1.8	0.21	U
100-42-5	Styrene	ND	0.88	0.17	U
75-71-8	Dichlorodifluoromethane	ND	8.8	0.80	U
67-64-1	Acetone	23	8.8	4.2	
75-15-0	Carbon disulfide	ND	8.8	4.0	U
78-93-3	2-Butanone	8.8	8.8	1.9	
108-05-4	Vinyl acetate	ND	8.8	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	8.8	1.1	U
96-18-4	1,2,3-Trichloropropane	ND	1.8	0.11	U
591-78-6	2-Hexanone	ND	8.8	1.0	U
74-97-5	Bromochloromethane	ND	1.8	0.18	U
594-20-7	2,2-Dichloropropane	ND	1.8	0.18	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-50	Date Collected	: 06/20/23 13:10
Client ID	: 10-B6WW (9.5-10)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/01/23 23:16
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V10230701C23	Instrument ID	: VOA110
Sample Amount	: 6.5 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 87
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	0.88	0.24	U
142-28-9	1,3-Dichloropropane	ND	1.8	0.15	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.44	0.12	U
108-86-1	Bromobenzene	ND	1.8	0.13	U
104-51-8	n-Butylbenzene	ND	0.88	0.15	U
135-98-8	sec-Butylbenzene	ND	0.88	0.13	U
98-06-6	tert-Butylbenzene	ND	1.8	0.10	U
95-49-8	o-Chlorotoluene	ND	1.8	0.17	U
106-43-4	p-Chlorotoluene	ND	1.8	0.10	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.6	0.87	U
87-68-3	Hexachlorobutadiene	ND	3.5	0.15	U
98-82-8	Isopropylbenzene	ND	0.88	0.10	U
99-87-6	p-Isopropyltoluene	ND	0.88	0.10	U
91-20-3	Naphthalene	ND	3.5	0.57	U
107-13-1	Acrylonitrile	ND	3.5	1.0	U
103-65-1	n-Propylbenzene	ND	0.88	0.15	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.8	0.28	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.24	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.8	0.17	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.8	0.29	U
123-91-1	1,4-Dioxane	ND	70	31.	U
105-05-5	p-Diethylbenzene	ND	1.8	0.16	U
622-96-8	p-Ethyltoluene	ND	1.8	0.34	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	1.8	0.17	U
60-29-7	Ethyl ether	ND	1.8	0.30	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-50	**Date Collected**	: 06/20/23 13:10
Client ID	: 10-B6WW (9.5-10)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 07/01/23 23:16
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: AJK
Lab File ID	: V10230701C23	**Instrument ID**	: VOA110
Sample Amount	: 6.5 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 87
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.4	1.2	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-51	Date Collected	: 06/20/23 13:30
Client ID	: 10-B6N (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 16:16
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A14	Instrument ID	: VOA104
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 90
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-09-2	Methylene chloride	ND	5.6	2.6	U	
75-34-3	1,1-Dichloroethane	ND	1.1	0.16	U	
67-66-3	Chloroform	1.6	1.7	0.16	J	
56-23-5	Carbon tetrachloride	ND	1.1	0.26	U	
78-87-5	1,2-Dichloropropane	ND	1.1	0.14	U	
124-48-1	Dibromochloromethane	ND	1.1	0.16	U	
79-00-5	1,1,2-Trichloroethane	ND	1.1	0.30	U	
127-18-4	Tetrachloroethene	770	0.56	0.22	E	J
108-90-7	Chlorobenzene	ND	0.56	0.14	U	
75-69-4	Trichlorofluoromethane	ND	4.5	0.78	U	
107-06-2	1,2-Dichloroethane	ND	1.1	0.29	U	
71-55-6	1,1,1-Trichloroethane	ND	0.56	0.19	U	
75-27-4	Bromodichloromethane	ND	0.56	0.12	U	
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.30	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.56	0.18	U	
542-75-6	1,3-Dichloropropene, Total	ND	0.56	0.18	U	
563-58-6	1,1-Dichloropropene	ND	0.56	0.18	U	
75-25-2	Bromoform	ND	4.5	0.27	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.56	0.18	U	
71-43-2	Benzene	ND	0.56	0.18	U	
108-88-3	Toluene	ND	1.1	0.61	U	
100-41-4	Ethylbenzene	ND	1.1	0.16	U	
74-87-3	Chloromethane	ND	4.5	1.0	U	
74-83-9	Bromomethane	ND	2.2	0.65	U	
75-01-4	Vinyl chloride	ND	1.1	0.37	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-51	Date Collected	: 06/20/23 13:30
Client ID	: 10-B6N (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 16:16
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A14	Instrument ID	: VOA104
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 90
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	2.2	0.50	U
75-35-4	1,1-Dichloroethene	ND	1.1	0.26	U
156-60-5	trans-1,2-Dichloroethene	ND	1.7	0.15	U
79-01-6	Trichloroethene	48	0.56	0.15	
95-50-1	1,2-Dichlorobenzene	ND	2.2	0.16	U
541-73-1	1,3-Dichlorobenzene	ND	2.2	0.16	U
106-46-7	1,4-Dichlorobenzene	ND	2.2	0.19	U
1634-04-4	Methyl tert butyl ether	ND	2.2	0.22	U
179601-23-1	p/m-Xylene	ND	2.2	0.62	U
95-47-6	o-Xylene	ND	1.1	0.32	U
1330-20-7	Xylenes, Total	ND	1.1	0.32	U
156-59-2	cis-1,2-Dichloroethene	9.3	1.1	0.20	
540-59-0	1,2-Dichloroethene, Total	9.3	1.1	0.15	
74-95-3	Dibromomethane	ND	2.2	0.26	U
100-42-5	Styrene	ND	1.1	0.22	U
75-71-8	Dichlorodifluoromethane	ND	11	1.0	U
67-64-1	Acetone	10	11	5.4	J
75-15-0	Carbon disulfide	ND	11	5.1	U
78-93-3	2-Butanone	ND	11	2.5	U
108-05-4	Vinyl acetate	ND	11	2.4	U
108-10-1	4-Methyl-2-pentanone	ND	11	1.4	U
96-18-4	1,2,3-Trichloropropane	ND	2.2	0.14	U
591-78-6	2-Hexanone	ND	11	1.3	U
74-97-5	Bromochloromethane	ND	2.2	0.23	U
594-20-7	2,2-Dichloropropane	ND	2.2	0.22	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-51	Date Collected	: 06/20/23 13:30
Client ID	: 10-B6N (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 16:16
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A14	Instrument ID	: VOA104
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 90
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	1.1	0.31	U
142-28-9	1,3-Dichloropropane	ND	2.2	0.19	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.56	0.15	U
108-86-1	Bromobenzene	ND	2.2	0.16	U
104-51-8	n-Butylbenzene	ND	1.1	0.19	U
135-98-8	sec-Butylbenzene	ND	1.1	0.16	U
98-06-6	tert-Butylbenzene	ND	2.2	0.13	U
95-49-8	o-Chlorotoluene	ND	2.2	0.21	U
106-43-4	p-Chlorotoluene	ND	2.2	0.12	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.4	1.1	U
87-68-3	Hexachlorobutadiene	ND	4.5	0.19	U
98-82-8	Isopropylbenzene	ND	1.1	0.12	U
99-87-6	p-Isopropyltoluene	ND	1.1	0.12	U
91-20-3	Naphthalene	ND	4.5	0.73	U
107-13-1	Acrylonitrile	ND	4.5	1.3	U
103-65-1	n-Propylbenzene	ND	1.1	0.19	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.2	0.36	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.2	0.30	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.2	0.22	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.2	0.37	U
123-91-1	1,4-Dioxane	ND	89	39.	U
105-05-5	p-Diethylbenzene	ND	2.2	0.20	U
622-96-8	p-Ethyltoluene	ND	2.2	0.43	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.2	0.21	U
60-29-7	Ethyl ether	ND	2.2	0.38	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-51	**Date Collected**	: 06/20/23 13:30
Client ID	: 10-B6N (1.5-2)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 16:16
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A14	**Instrument ID**	: VOA104
Sample Amount	: 5.0 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 90
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.6	1.6	U

Results Summary
Form 1
Volatile Organics by EPA 5035 High

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-51	Date Collected	: 06/20/23 13:30
Client ID	: 10-B6N (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/28/23 09:46
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230628A06	Instrument ID	: VOA131
Sample Amount	: 4.5 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 90
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	340	150	U
75-34-3	1,1-Dichloroethane	ND	68	9.8	U
67-66-3	Chloroform	ND	100	9.5	U
56-23-5	Carbon tetrachloride	ND	68	16.	U
78-87-5	1,2-Dichloropropane	ND	68	8.4	U
124-48-1	Dibromochloromethane	ND	68	9.5	U
79-00-5	1,1,2-Trichloroethane	ND	68	18.	U
127-18-4	Tetrachloroethene	290	34	13.	
108-90-7	Chlorobenzene	ND	34	8.6	U
75-69-4	Trichlorofluoromethane	ND	270	47.	U
107-06-2	1,2-Dichloroethane	ND	68	17.	U
71-55-6	1,1,1-Trichloroethane	ND	34	11.	U
75-27-4	Bromodichloromethane	ND	34	7.4	U
10061-02-6	trans-1,3-Dichloropropene	ND	68	18.	U
10061-01-5	cis-1,3-Dichloropropene	ND	34	11.	U
542-75-6	1,3-Dichloropropene, Total	ND	34	11.	U
563-58-6	1,1-Dichloropropene	ND	34	11.	U
75-25-2	Bromoform	ND	270	17.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	34	11.	U
71-43-2	Benzene	ND	34	11.	U
108-88-3	Toluene	ND	68	37.	U
100-41-4	Ethylbenzene	ND	68	9.5	U
74-87-3	Chloromethane	ND	270	63.	U
74-83-9	Bromomethane	ND	140	39.	U
75-01-4	Vinyl chloride	ND	68	23.	U

Results Summary
Form 1
Volatile Organics by EPA 5035 High

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-51	Date Collected	: 06/20/23 13:30
Client ID	: 10-B6N (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/28/23 09:46
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230628A06	Instrument ID	: VOA131
Sample Amount	: 4.5 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 90
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	140	30.	U
75-35-4	1,1-Dichloroethene	ND	68	16.	U
156-60-5	trans-1,2-Dichloroethene	ND	100	9.3	U
79-01-6	Trichloroethene	30	34	9.3	J
95-50-1	1,2-Dichlorobenzene	ND	140	9.7	U
541-73-1	1,3-Dichlorobenzene	ND	140	10.	U
106-46-7	1,4-Dichlorobenzene	ND	140	12.	U
1634-04-4	Methyl tert butyl ether	ND	140	14.	U
179601-23-1	p/m-Xylene	ND	140	38.	U
95-47-6	o-Xylene	ND	68	20.	U
1330-20-7	Xylenes, Total	ND	68	20.	U
156-59-2	cis-1,2-Dichloroethene	ND	68	12.	U
540-59-0	1,2-Dichloroethene, Total	ND	68	9.3	U
74-95-3	Dibromomethane	ND	140	16.	U
100-42-5	Styrene	ND	68	13.	U
75-71-8	Dichlorodifluoromethane	ND	680	62.	U
67-64-1	Acetone	ND	680	320	U
75-15-0	Carbon disulfide	ND	680	310	U
78-93-3	2-Butanone	ND	680	150	U
108-05-4	Vinyl acetate	ND	680	140	U
108-10-1	4-Methyl-2-pentanone	ND	680	87.	U
96-18-4	1,2,3-Trichloropropane	ND	140	8.6	U
591-78-6	2-Hexanone	ND	680	80.	U
74-97-5	Bromochloromethane	ND	140	14.	U
594-20-7	2,2-Dichloropropane	ND	140	14.	U

Results Summary
Form 1
Volatile Organics by EPA 5035 High

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-51	Date Collected	: 06/20/23 13:30
Client ID	: 10-B6N (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/28/23 09:46
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: MKS
Lab File ID	: V31230628A06	Instrument ID	: VOA131
Sample Amount	: 4.5 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 90
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	68	19.	U
142-28-9	1,3-Dichloropropane	ND	140	11.	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	34	8.9	U
108-86-1	Bromobenzene	ND	140	9.8	U
104-51-8	n-Butylbenzene	ND	68	11.	U
135-98-8	sec-Butylbenzene	ND	68	9.9	U
98-06-6	tert-Butylbenzene	ND	140	8.0	U
95-49-8	o-Chlorotoluene	ND	140	13.	U
106-43-4	p-Chlorotoluene	ND	140	7.3	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	68.	U
87-68-3	Hexachlorobutadiene	ND	270	11.	U
98-82-8	Isopropylbenzene	ND	68	7.4	U
99-87-6	p-Isopropyltoluene	ND	68	7.4	U
91-20-3	Naphthalene	ND	270	44.	U
107-13-1	Acrylonitrile	ND	270	78.	U
103-65-1	n-Propylbenzene	ND	68	12.	U
87-61-6	1,2,3-Trichlorobenzene	ND	140	22.	U
120-82-1	1,2,4-Trichlorobenzene	ND	140	18.	U
108-67-8	1,3,5-Trimethylbenzene	ND	140	13.	U
95-63-6	1,2,4-Trimethylbenzene	ND	140	23.	U
123-91-1	1,4-Dioxane	ND	5400	2400	U
105-05-5	p-Diethylbenzene	ND	140	12.	U
622-96-8	p-Ethyltoluene	ND	140	26.	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	140	13.	U
60-29-7	Ethyl ether	ND	140	23.	U

Results Summary
Form 1
Volatile Organics by EPA 5035 High

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-51	**Date Collected**	: 06/20/23 13:30
Client ID	: 10-B6N (1.5-2)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/28/23 09:46
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V31230628A06	**Instrument ID**	: VOA131
Sample Amount	: 4.5 g	**GC Column**	: RTX-VMS
Level	: HIGH	**%Solids**	: 90
Extract Volume (MeOH)	: 5 ml	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	340	96.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-52	Date Collected	: 06/20/23 13:35
Client ID	: 10-B6N (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 20:09
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A23	Instrument ID	: VOA104
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 90
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	290	130	U
75-34-3	1,1-Dichloroethane	ND	58	8.4	U
67-66-3	Chloroform	8.3	87	8.1	J
56-23-5	Carbon tetrachloride	ND	58	13.	U
78-87-5	1,2-Dichloropropane	ND	58	7.2	U
124-48-1	Dibromochloromethane	ND	58	8.1	U
79-00-5	1,1,2-Trichloroethane	ND	58	15.	U
127-18-4	Tetrachloroethene	18000	29	11.	E
108-90-7	Chlorobenzene	ND	29	7.3	U
75-69-4	Trichlorofluoromethane	ND	230	40.	U
107-06-2	1,2-Dichloroethane	ND	58	15.	U
71-55-6	1,1,1-Trichloroethane	ND	29	9.7	U
75-27-4	Bromodichloromethane	ND	29	6.3	U
10061-02-6	trans-1,3-Dichloropropene	ND	58	16.	U
10061-01-5	cis-1,3-Dichloropropene	ND	29	9.1	U
542-75-6	1,3-Dichloropropene, Total	ND	29	9.1	U
563-58-6	1,1-Dichloropropene	ND	29	9.2	U
75-25-2	Bromoform	ND	230	14.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	29	9.6	U
71-43-2	Benzene	ND	29	9.6	U
108-88-3	Toluene	ND	58	31.	U
100-41-4	Ethylbenzene	ND	58	8.2	U
74-87-3	Chloromethane	ND	230	54.	U
74-83-9	Bromomethane	ND	120	34.	U
75-01-4	Vinyl chloride	ND	58	19.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-52	Date Collected	: 06/20/23 13:35
Client ID	: 10-B6N (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 20:09
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A23	Instrument ID	: VOA104
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 90
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	120	26.	U
75-35-4	1,1-Dichloroethene	ND	58	14.	U
156-60-5	trans-1,2-Dichloroethene	ND	87	7.9	U
79-01-6	Trichloroethene	950	29	7.9	
95-50-1	1,2-Dichlorobenzene	ND	120	8.3	U
541-73-1	1,3-Dichlorobenzene	ND	120	8.6	U
106-46-7	1,4-Dichlorobenzene	ND	120	9.9	U
1634-04-4	Methyl tert butyl ether	ND	120	12.	U
179601-23-1	p/m-Xylene	ND	120	32.	U
95-47-6	o-Xylene	ND	58	17.	U
1330-20-7	Xylenes, Total	ND	58	17.	U
156-59-2	cis-1,2-Dichloroethene	210	58	10.	
540-59-0	1,2-Dichloroethene, Total	210	58	7.9	
74-95-3	Dibromomethane	ND	120	14.	U
100-42-5	Styrene	ND	58	11.	U
75-71-8	Dichlorodifluoromethane	ND	580	53.	U
67-64-1	Acetone	ND	580	280	U
75-15-0	Carbon disulfide	ND	580	260	U
78-93-3	2-Butanone	ND	580	130	U
108-05-4	Vinyl acetate	ND	580	120	U
108-10-1	4-Methyl-2-pentanone	ND	580	74.	U
96-18-4	1,2,3-Trichloropropane	ND	120	7.3	U
591-78-6	2-Hexanone	ND	580	68.	U
74-97-5	Bromochloromethane	ND	120	12.	U
594-20-7	2,2-Dichloropropane	ND	120	12.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-52	Date Collected	: 06/20/23 13:35
Client ID	: 10-B6N (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 20:09
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A23	Instrument ID	: VOA104
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 90
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	58	16.	U
142-28-9	1,3-Dichloropropane	ND	120	9.7	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	29	7.6	U
108-86-1	Bromobenzene	ND	120	8.4	U
104-51-8	n-Butylbenzene	ND	58	9.7	U
135-98-8	sec-Butylbenzene	ND	58	8.4	U
98-06-6	tert-Butylbenzene	ND	120	6.8	U
95-49-8	o-Chlorotoluene	ND	120	11.	U
106-43-4	p-Chlorotoluene	ND	120	6.2	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	170	58.	U
87-68-3	Hexachlorobutadiene	ND	230	9.8	U
98-82-8	Isopropylbenzene	ND	58	6.3	U
99-87-6	p-Isopropyltoluene	ND	58	6.3	U
91-20-3	Naphthalene	94	230	38.	J
107-13-1	Acrylonitrile	ND	230	66.	U
103-65-1	n-Propylbenzene	ND	58	9.9	U
87-61-6	1,2,3-Trichlorobenzene	ND	120	19.	U
120-82-1	1,2,4-Trichlorobenzene	ND	120	16.	U
108-67-8	1,3,5-Trimethylbenzene	ND	120	11.	U
95-63-6	1,2,4-Trimethylbenzene	ND	120	19.	U
123-91-1	1,4-Dioxane	ND	4600	2000	U
105-05-5	p-Diethylbenzene	ND	120	10.	U
622-96-8	p-Ethyltoluene	ND	120	22.	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	120	11.	U
60-29-7	Ethyl ether	ND	120	20.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-52	**Date Collected**	: 06/20/23 13:35
Client ID	: 10-B6N (4.5-5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 20:09
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A23	**Instrument ID**	: VOA104
Sample Amount	: 5.3 g	**GC Column**	: RTX-VMS
Level	: HIGH	**%Solids**	: 90
Extract Volume (MeOH)	: 5 ml	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	290	82.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-52D	**Date Collected**	: 06/20/23 13:35
Client ID	: 10-B6N (4.5-5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/28/23 10:09
Sample Matrix	: SOIL	**Dilution Factor**	: 10
Analytical Method	: 1,8260D	**Analyst**	: MKS
Lab File ID	: V31230628A07	**Instrument ID**	: VOA131
Sample Amount	: 5.3 g	**GC Column**	: RTX-VMS
Level	: HIGH	**%Solids**	: 90
Extract Volume (MeOH)	: 5 ml	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
127-18-4	Tetrachloroethene	17000	290	110	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-53	**Date Collected**	: 06/20/23 13:40
Client ID	: 10-B6N (9.5-10)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 16:42
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A15	**Instrument ID**	: VOA104
Sample Amount	: 5.3 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 90
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	5.2	2.4	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.15	U
67-66-3	Chloroform	ND	1.6	0.15	U
56-23-5	Carbon tetrachloride	ND	1.0	0.24	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	1.0	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	U
127-18-4	Tetrachloroethene	4.0	0.52	0.21	
108-90-7	Chlorobenzene	ND	0.52	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.2	0.73	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.27	U
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.18	U
75-27-4	Bromodichloromethane	ND	0.52	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.29	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.52	0.17	U
542-75-6	1,3-Dichloropropene, Total	ND	0.52	0.17	U
563-58-6	1,1-Dichloropropene	ND	0.52	0.17	U
75-25-2	Bromoform	ND	4.2	0.26	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	0.17	U
71-43-2	Benzene	ND	0.52	0.17	U
108-88-3	Toluene	ND	1.0	0.57	U
100-41-4	Ethylbenzene	ND	1.0	0.15	U
74-87-3	Chloromethane	ND	4.2	0.98	U
74-83-9	Bromomethane	ND	2.1	0.61	U
75-01-4	Vinyl chloride	8.0	1.0	0.35	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-53	**Date Collected**	: 06/20/23 13:40
Client ID	: 10-B6N (9.5-10)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 16:42
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A15	**Instrument ID**	: VOA104
Sample Amount	: 5.3 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 90
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.1	0.48	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.25	U
156-60-5	trans-1,2-Dichloroethene	17	1.6	0.14	
79-01-6	Trichloroethene	3.3	0.52	0.14	
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.15	U
541-73-1	1,3-Dichlorobenzene	ND	2.1	0.16	U
106-46-7	1,4-Dichlorobenzene	ND	2.1	0.18	U
1634-04-4	Methyl tert butyl ether	ND	2.1	0.21	U
179601-23-1	p/m-Xylene	ND	2.1	0.59	U
95-47-6	o-Xylene	ND	1.0	0.30	U
1330-20-7	Xylenes, Total	ND	1.0	0.30	U
156-59-2	cis-1,2-Dichloroethene	23	1.0	0.18	
540-59-0	1,2-Dichloroethene, Total	40	1.0	0.14	
74-95-3	Dibromomethane	ND	2.1	0.25	U
100-42-5	Styrene	ND	1.0	0.21	U
75-71-8	Dichlorodifluoromethane	ND	10	0.96	U
67-64-1	Acetone	190	10	5.0	
75-15-0	Carbon disulfide	ND	10	4.8	U
78-93-3	2-Butanone	38	10	2.3	
108-05-4	Vinyl acetate	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
96-18-4	1,2,3-Trichloropropane	ND	2.1	0.13	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.1	0.22	U
594-20-7	2,2-Dichloropropane	ND	2.1	0.21	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-53	Date Collected	: 06/20/23 13:40
Client ID	: 10-B6N (9.5-10)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 16:42
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A15	Instrument ID	: VOA104
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 90
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	1.0	0.29	U
142-28-9	1,3-Dichloropropane	ND	2.1	0.18	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.52	0.14	U
108-86-1	Bromobenzene	ND	2.1	0.15	U
104-51-8	n-Butylbenzene	ND	1.0	0.18	U
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U
98-06-6	tert-Butylbenzene	ND	2.1	0.12	U
95-49-8	o-Chlorotoluene	ND	2.1	0.20	U
106-43-4	p-Chlorotoluene	ND	2.1	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.2	1.0	U
87-68-3	Hexachlorobutadiene	ND	4.2	0.18	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.11	U
91-20-3	Naphthalene	ND	4.2	0.68	U
107-13-1	Acrylonitrile	ND	4.2	1.2	U
103-65-1	n-Propylbenzene	ND	1.0	0.18	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.1	0.34	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.1	0.28	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.1	0.20	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.1	0.35	U
123-91-1	1,4-Dioxane	ND	84	37.	U
105-05-5	p-Diethylbenzene	ND	2.1	0.19	U
622-96-8	p-Ethyltoluene	ND	2.1	0.40	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.1	0.20	U
60-29-7	Ethyl ether	ND	2.1	0.36	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-53	**Date Collected**	: 06/20/23 13:40
Client ID	: 10-B6N (9.5-10)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 16:42
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A15	**Instrument ID**	: VOA104
Sample Amount	: 5.3 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 90
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.2	1.5	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-54	Date Collected	: 06/20/23 14:20
Client ID	: 10-B6E (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 17:07
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A16	Instrument ID	: VOA104
Sample Amount	: 5.4 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 88
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	5.2	2.4	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.15	U
67-66-3	Chloroform	ND	1.6	0.15	U
56-23-5	Carbon tetrachloride	ND	1.0	0.24	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	1.0	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	U
127-18-4	Tetrachloroethene	1.8	0.52	0.20	
108-90-7	Chlorobenzene	ND	0.52	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.2	0.73	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.27	U
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.18	U
75-27-4	Bromodichloromethane	ND	0.52	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.29	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.52	0.16	U
542-75-6	1,3-Dichloropropene, Total	ND	0.52	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.52	0.17	U
75-25-2	Bromoform	ND	4.2	0.26	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	0.17	U
71-43-2	Benzene	ND	0.52	0.17	U
108-88-3	Toluene	0.75	1.0	0.57	J
100-41-4	Ethylbenzene	ND	1.0	0.15	U
74-87-3	Chloromethane	ND	4.2	0.98	U
74-83-9	Bromomethane	ND	2.1	0.61	U
75-01-4	Vinyl chloride	ND	1.0	0.35	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-54	Date Collected	: 06/20/23 14:20
Client ID	: 10-B6E (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 17:07
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A16	Instrument ID	: VOA104
Sample Amount	: 5.4 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 88
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	2.1	0.47	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.25	U
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.14	U
79-01-6	Trichloroethene	ND	0.52	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.15	U
541-73-1	1,3-Dichlorobenzene	ND	2.1	0.16	U
106-46-7	1,4-Dichlorobenzene	ND	2.1	0.18	U
1634-04-4	Methyl tert butyl ether	ND	2.1	0.21	U
179601-23-1	p/m-Xylene	ND	2.1	0.59	U
95-47-6	o-Xylene	ND	1.0	0.30	U
1330-20-7	Xylenes, Total	ND	1.0	0.30	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	U
540-59-0	1,2-Dichloroethene, Total	ND	1.0	0.14	U
74-95-3	Dibromomethane	ND	2.1	0.25	U
100-42-5	Styrene	ND	1.0	0.20	U
75-71-8	Dichlorodifluoromethane	ND	10	0.96	U
67-64-1	Acetone	28	10	5.0	
75-15-0	Carbon disulfide	ND	10	4.8	U
78-93-3	2-Butanone	11	10	2.3	
108-05-4	Vinyl acetate	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
96-18-4	1,2,3-Trichloropropane	ND	2.1	0.13	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.1	0.21	U
594-20-7	2,2-Dichloropropane	ND	2.1	0.21	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-54	**Date Collected**	: 06/20/23 14:20
Client ID	: 10-B6E (1.5-2)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 17:07
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A16	**Instrument ID**	: VOA104
Sample Amount	: 5.4 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 88
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
106-93-4	1,2-Dibromoethane	ND	1.0	0.29	U
142-28-9	1,3-Dichloropropane	ND	2.1	0.18	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.52	0.14	U
108-86-1	Bromobenzene	ND	2.1	0.15	U
104-51-8	n-Butylbenzene	ND	1.0	0.18	U
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U
98-06-6	tert-Butylbenzene	ND	2.1	0.12	U
95-49-8	o-Chlorotoluene	ND	2.1	0.20	U
106-43-4	p-Chlorotoluene	ND	2.1	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.1	1.0	U
87-68-3	Hexachlorobutadiene	ND	4.2	0.18	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	0.90	1.0	0.11	J
91-20-3	Naphthalene	21	4.2	0.68	
107-13-1	Acrylonitrile	ND	4.2	1.2	U
103-65-1	n-Propylbenzene	ND	1.0	0.18	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.1	0.34	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.1	0.28	U
108-67-8	1,3,5-Trimethylbenzene	0.62	2.1	0.20	J
95-63-6	1,2,4-Trimethylbenzene	0.73	2.1	0.35	J
123-91-1	1,4-Dioxane	ND	84	37.	U
105-05-5	p-Diethylbenzene	ND	2.1	0.18	U
622-96-8	p-Ethyltoluene	0.55	2.1	0.40	J
95-93-2	1,2,4,5-Tetramethylbenzene	0.38	2.1	0.20	J
60-29-7	Ethyl ether	ND	2.1	0.36	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-54	**Date Collected**	: 06/20/23 14:20
Client ID	: 10-B6E (1.5-2)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 17:07
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A16	**Instrument ID**	: VOA104
Sample Amount	: 5.4 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 88
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.2	1.5	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-55	**Date Collected**	: 06/20/23 14:25
Client ID	: 10-B6E (4.5-5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 20:34
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A24	**Instrument ID**	: VOA104
Sample Amount	: 4.9 g	**GC Column**	: RTX-VMS
Level	: HIGH	**%Solids**	: 90
Extract Volume (MeOH)	: 5 ml	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	310	140	U
75-34-3	1,1-Dichloroethane	ND	62	9.0	U
67-66-3	Chloroform	ND	93	8.7	U
56-23-5	Carbon tetrachloride	ND	62	14.	U
78-87-5	1,2-Dichloropropane	ND	62	7.8	U
124-48-1	Dibromochloromethane	ND	62	8.7	U
79-00-5	1,1,2-Trichloroethane	ND	62	17.	U
127-18-4	Tetrachloroethene	7300	31	12.	
108-90-7	Chlorobenzene	ND	31	7.9	U
75-69-4	Trichlorofluoromethane	ND	250	43.	U
107-06-2	1,2-Dichloroethane	ND	62	16.	U
71-55-6	1,1,1-Trichloroethane	ND	31	10.	U
75-27-4	Bromodichloromethane	ND	31	6.8	U
10061-02-6	trans-1,3-Dichloropropene	ND	62	17.	U
10061-01-5	cis-1,3-Dichloropropene	ND	31	9.8	U
542-75-6	1,3-Dichloropropene, Total	ND	31	9.8	U
563-58-6	1,1-Dichloropropene	ND	31	9.9	U
75-25-2	Bromoform	ND	250	15.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	31	10.	U
71-43-2	Benzene	ND	31	10.	U
108-88-3	Toluene	ND	62	34.	U
100-41-4	Ethylbenzene	ND	62	8.8	U
74-87-3	Chloromethane	ND	250	58.	U
74-83-9	Bromomethane	ND	120	36.	U
75-01-4	Vinyl chloride	ND	62	21.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-55	Date Collected	: 06/20/23 14:25
Client ID	: 10-B6E (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 20:34
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A24	Instrument ID	: VOA104
Sample Amount	: 4.9 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 90
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	120	28.	U
75-35-4	1,1-Dichloroethene	ND	62	15.	U
156-60-5	trans-1,2-Dichloroethene	ND	93	8.5	U
79-01-6	Trichloroethene	360	31	8.5	
95-50-1	1,2-Dichlorobenzene	ND	120	9.0	U
541-73-1	1,3-Dichlorobenzene	ND	120	9.2	U
106-46-7	1,4-Dichlorobenzene	ND	120	11.	U
1634-04-4	Methyl tert butyl ether	ND	120	12.	U
179601-23-1	p/m-Xylene	ND	120	35.	U
95-47-6	o-Xylene	ND	62	18.	U
1330-20-7	Xylenes, Total	ND	62	18.	U
156-59-2	cis-1,2-Dichloroethene	25	62	11.	J
540-59-0	1,2-Dichloroethene, Total	25	62	8.5	J
74-95-3	Dibromomethane	ND	120	15.	U
100-42-5	Styrene	ND	62	12.	U
75-71-8	Dichlorodifluoromethane	ND	620	57.	U
67-64-1	Acetone	ND	620	300	U
75-15-0	Carbon disulfide	ND	620	280	U
78-93-3	2-Butanone	ND	620	140	U
108-05-4	Vinyl acetate	ND	620	130	U
108-10-1	4-Methyl-2-pentanone	ND	620	80.	U
96-18-4	1,2,3-Trichloropropane	ND	120	7.9	U
591-78-6	2-Hexanone	ND	620	73.	U
74-97-5	Bromochloromethane	ND	120	13.	U
594-20-7	2,2-Dichloropropane	ND	120	12.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-55	Date Collected	: 06/20/23 14:25
Client ID	: 10-B6E (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 20:34
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A24	Instrument ID	: VOA104
Sample Amount	: 4.9 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: 90
Extract Volume (MeOH)	: 5 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	62	17.	U
142-28-9	1,3-Dichloropropane	ND	120	10.	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	31	8.2	U
108-86-1	Bromobenzene	ND	120	9.0	U
104-51-8	n-Butylbenzene	ND	62	10.	U
135-98-8	sec-Butylbenzene	ND	62	9.1	U
98-06-6	tert-Butylbenzene	ND	120	7.3	U
95-49-8	o-Chlorotoluene	ND	120	12.	U
106-43-4	p-Chlorotoluene	ND	120	6.7	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	190	62.	U
87-68-3	Hexachlorobutadiene	ND	250	10.	U
98-82-8	Isopropylbenzene	ND	62	6.8	U
99-87-6	p-Isopropyltoluene	ND	62	6.8	U
91-20-3	Naphthalene	ND	250	40.	U
107-13-1	Acrylonitrile	ND	250	72.	U
103-65-1	n-Propylbenzene	ND	62	11.	U
87-61-6	1,2,3-Trichlorobenzene	ND	120	20.	U
120-82-1	1,2,4-Trichlorobenzene	ND	120	17.	U
108-67-8	1,3,5-Trimethylbenzene	ND	120	12.	U
95-63-6	1,2,4-Trimethylbenzene	ND	120	21.	U
123-91-1	1,4-Dioxane	ND	5000	2200	U
105-05-5	p-Diethylbenzene	ND	120	11.	U
622-96-8	p-Ethyltoluene	ND	120	24.	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	120	12.	U
60-29-7	Ethyl ether	ND	120	21.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-55	**Date Collected**	: 06/20/23 14:25
Client ID	: 10-B6E (4.5-5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 20:34
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A24	**Instrument ID**	: VOA104
Sample Amount	: 4.9 g	**GC Column**	: RTX-VMS
Level	: HIGH	**%Solids**	: 90
Extract Volume (MeOH)	: 5 ml	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	310	88.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-56	Date Collected	: 06/20/23 14:30
Client ID	: 10-B6E (9.5-10)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 17:33
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A17	Instrument ID	: VOA104
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 92
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	5.5	2.5	U
75-34-3	1,1-Dichloroethane	ND	1.1	0.16	U
67-66-3	Chloroform	ND	1.6	0.15	U
56-23-5	Carbon tetrachloride	ND	1.1	0.25	U
78-87-5	1,2-Dichloropropane	ND	1.1	0.14	U
124-48-1	Dibromochloromethane	ND	1.1	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.1	0.29	U
127-18-4	Tetrachloroethene	ND	0.55	0.21	U
108-90-7	Chlorobenzene	ND	0.55	0.14	U
75-69-4	Trichlorofluoromethane	ND	4.4	0.76	U
107-06-2	1,2-Dichloroethane	ND	1.1	0.28	U
71-55-6	1,1,1-Trichloroethane	ND	0.55	0.18	U
75-27-4	Bromodichloromethane	ND	0.55	0.12	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.30	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.55	0.17	U
542-75-6	1,3-Dichloropropene, Total	ND	0.55	0.17	U
563-58-6	1,1-Dichloropropene	ND	0.55	0.17	U
75-25-2	Bromoform	ND	4.4	0.27	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.55	0.18	U
71-43-2	Benzene	ND	0.55	0.18	U
108-88-3	Toluene	ND	1.1	0.60	U
100-41-4	Ethylbenzene	ND	1.1	0.15	U
74-87-3	Chloromethane	ND	4.4	1.0	U
74-83-9	Bromomethane	ND	2.2	0.64	U
75-01-4	Vinyl chloride	ND	1.1	0.37	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-56	**Date Collected**	: 06/20/23 14:30
Client ID	: 10-B6E (9.5-10)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 17:33
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A17	**Instrument ID**	: VOA104
Sample Amount	: 5.0 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 92
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.2	0.50	U
75-35-4	1,1-Dichloroethene	ND	1.1	0.26	U
156-60-5	trans-1,2-Dichloroethene	1.1	1.6	0.15	J
79-01-6	Trichloroethene	ND	0.55	0.15	U
95-50-1	1,2-Dichlorobenzene	ND	2.2	0.16	U
541-73-1	1,3-Dichlorobenzene	ND	2.2	0.16	U
106-46-7	1,4-Dichlorobenzene	ND	2.2	0.19	U
1634-04-4	Methyl tert butyl ether	ND	2.2	0.22	U
179601-23-1	p/m-Xylene	ND	2.2	0.61	U
95-47-6	o-Xylene	ND	1.1	0.32	U
1330-20-7	Xylenes, Total	ND	1.1	0.32	U
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.19	U
540-59-0	1,2-Dichloroethene, Total	1.1	1.1	0.15	J
74-95-3	Dibromomethane	ND	2.2	0.26	U
100-42-5	Styrene	ND	1.1	0.21	U
75-71-8	Dichlorodifluoromethane	ND	11	1.0	U
67-64-1	Acetone	86	11	5.3	
75-15-0	Carbon disulfide	ND	11	5.0	U
78-93-3	2-Butanone	12	11	2.4	
108-05-4	Vinyl acetate	ND	11	2.4	U
108-10-1	4-Methyl-2-pentanone	ND	11	1.4	U
96-18-4	1,2,3-Trichloropropane	ND	2.2	0.14	U
591-78-6	2-Hexanone	ND	11	1.3	U
74-97-5	Bromochloromethane	ND	2.2	0.22	U
594-20-7	2,2-Dichloropropane	ND	2.2	0.22	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-56	Date Collected	: 06/20/23 14:30
Client ID	: 10-B6E (9.5-10)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 17:33
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A17	Instrument ID	: VOA104
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 92
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	1.1	0.30	U
142-28-9	1,3-Dichloropropane	ND	2.2	0.18	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.55	0.14	U
108-86-1	Bromobenzene	ND	2.2	0.16	U
104-51-8	n-Butylbenzene	ND	1.1	0.18	U
135-98-8	sec-Butylbenzene	ND	1.1	0.16	U
98-06-6	tert-Butylbenzene	ND	2.2	0.13	U
95-49-8	o-Chlorotoluene	ND	2.2	0.21	U
106-43-4	p-Chlorotoluene	ND	2.2	0.12	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.3	1.1	U
87-68-3	Hexachlorobutadiene	ND	4.4	0.18	U
98-82-8	Isopropylbenzene	ND	1.1	0.12	U
99-87-6	p-Isopropyltoluene	ND	1.1	0.12	U
91-20-3	Naphthalene	ND	4.4	0.71	U
107-13-1	Acrylonitrile	ND	4.4	1.3	U
103-65-1	n-Propylbenzene	ND	1.1	0.19	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.2	0.35	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.2	0.30	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.2	0.21	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.2	0.37	U
123-91-1	1,4-Dioxane	ND	88	38.	U
105-05-5	p-Diethylbenzene	ND	2.2	0.19	U
622-96-8	p-Ethyltoluene	ND	2.2	0.42	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.2	0.21	U
60-29-7	Ethyl ether	ND	2.2	0.37	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-56	**Date Collected**	: 06/20/23 14:30
Client ID	: 10-B6E (9.5-10)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 17:33
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A17	**Instrument ID**	: VOA104
Sample Amount	: 5.0 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 92
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.5	1.6	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-58	Date Collected	: 06/20/23 14:05
Client ID	: 10-B6EE (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/03/23 11:05
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V26230703A08	Instrument ID	: VOA126
Sample Amount	: 6.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 92
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	4.6	2.1	U
75-34-3	1,1-Dichloroethane	ND	0.92	0.13	U
67-66-3	Chloroform	0.24	1.4	0.13	J
56-23-5	Carbon tetrachloride	ND	0.92	0.21	U
78-87-5	1,2-Dichloropropane	ND	0.92	0.11	U
124-48-1	Dibromochloromethane	ND	0.92	0.13	U
79-00-5	1,1,2-Trichloroethane	ND	0.92	0.24	U
127-18-4	Tetrachloroethene	7.2	0.46	0.18	
108-90-7	Chlorobenzene	ND	0.46	0.12	U
75-69-4	Trichlorofluoromethane	ND	3.7	0.64	U
107-06-2	1,2-Dichloroethane	ND	0.92	0.24	U
71-55-6	1,1,1-Trichloroethane	ND	0.46	0.15	U
75-27-4	Bromodichloromethane	ND	0.46	0.10	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.92	0.25	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.46	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.46	0.14	U
563-58-6	1,1-Dichloropropene	ND	0.46	0.14	U
75-25-2	Bromoform	ND	3.7	0.22	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.46	0.15	U
71-43-2	Benzene	ND	0.46	0.15	U
108-88-3	Toluene	ND	0.92	0.50	U
100-41-4	Ethylbenzene	ND	0.92	0.13	U
74-87-3	Chloromethane	ND	3.7	0.85	U
74-83-9	Bromomethane	ND	1.8	0.53	U
75-01-4	Vinyl chloride	ND	0.92	0.31	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-58	Date Collected	: 06/20/23 14:05
Client ID	: 10-B6EE (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/03/23 11:05
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V26230703A08	Instrument ID	: VOA126
Sample Amount	: 6.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 92
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
75-00-3	Chloroethane	ND	1.8	0.41	U	
75-35-4	1,1-Dichloroethene	ND	0.92	0.22	U	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.12	U	
79-01-6	Trichloroethene	3.9	0.46	0.12		
95-50-1	1,2-Dichlorobenzene	ND	1.8	0.13	U	
541-73-1	1,3-Dichlorobenzene	ND	1.8	0.14	U	
106-46-7	1,4-Dichlorobenzene	ND	1.8	0.16	U	
1634-04-4	Methyl tert butyl ether	ND	1.8	0.18	U	
179601-23-1	p/m-Xylene	ND	1.8	0.51	U	
95-47-6	o-Xylene	ND	0.92	0.27	U	
1330-20-7	Xylenes, Total	ND	0.92	0.27	U	
156-59-2	cis-1,2-Dichloroethene	2.1	0.92	0.16		
540-59-0	1,2-Dichloroethene, Total	2.1	0.92	0.12		
74-95-3	Dibromomethane	ND	1.8	0.22	U	
100-42-5	Styrene	ND	0.92	0.18	U	
75-71-8	Dichlorodifluoromethane	ND	9.2	0.84	U	
67-64-1	Acetone	5.7	9.2	4.4	J	
75-15-0	Carbon disulfide	ND	9.2	4.2	U	
78-93-3	2-Butanone	4.9	9.2	2.0	J	
108-05-4	Vinyl acetate	ND	9.2	2.0	U	UJ
108-10-1	4-Methyl-2-pentanone	ND	9.2	1.2	U	
96-18-4	1,2,3-Trichloropropane	ND	1.8	0.12	U	
591-78-6	2-Hexanone	ND	9.2	1.1	U	
74-97-5	Bromochloromethane	ND	1.8	0.19	U	
594-20-7	2,2-Dichloropropane	ND	1.8	0.18	U	

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-58	Date Collected	: 06/20/23 14:05
Client ID	: 10-B6EE (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/03/23 11:05
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V26230703A08	Instrument ID	: VOA126
Sample Amount	: 6.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 92
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	0.92	0.26	U
142-28-9	1,3-Dichloropropane	ND	1.8	0.15	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.46	0.12	U
108-86-1	Bromobenzene	ND	1.8	0.13	U
104-51-8	n-Butylbenzene	ND	0.92	0.15	U
135-98-8	sec-Butylbenzene	ND	0.92	0.13	U
98-06-6	tert-Butylbenzene	ND	1.8	0.11	U
95-49-8	o-Chlorotoluene	ND	1.8	0.17	U
106-43-4	p-Chlorotoluene	ND	1.8	0.10	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.7	0.91	U
87-68-3	Hexachlorobutadiene	ND	3.7	0.15	U
98-82-8	Isopropylbenzene	ND	0.92	0.10	U
99-87-6	p-Isopropyltoluene	ND	0.92	0.10	U
91-20-3	Naphthalene	ND	3.7	0.60	U
107-13-1	Acrylonitrile	ND	3.7	1.0	U
103-65-1	n-Propylbenzene	ND	0.92	0.16	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.8	0.29	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.25	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.8	0.18	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.8	0.30	U
123-91-1	1,4-Dioxane	ND	73	32.	U
105-05-5	p-Diethylbenzene	ND	1.8	0.16	U
622-96-8	p-Ethyltoluene	ND	1.8	0.35	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	1.8	0.17	U
60-29-7	Ethyl ether	ND	1.8	0.31	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-58	**Date Collected**	: 06/20/23 14:05
Client ID	: 10-B6EE (1.5-2)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 07/03/23 11:05
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V26230703A08	**Instrument ID**	: VOA126
Sample Amount	: 6.0 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 92
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.6	1.3	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-59	**Date Collected**	: 06/20/23 14:10
Client ID	: 10-B6EE (5-5.5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 07/01/23 23:43
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: AJK
Lab File ID	: V10230701C24	**Instrument ID**	: VOA110
Sample Amount	: 5.4 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 91
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	5.0	2.3	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.15	U
67-66-3	Chloroform	0.50	1.5	0.14	J
56-23-5	Carbon tetrachloride	ND	1.0	0.23	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	1.0	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.27	U
127-18-4	Tetrachloroethene	17	0.50	0.20	
108-90-7	Chlorobenzene	ND	0.50	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.0	0.70	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	U
75-27-4	Bromodichloromethane	ND	0.50	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.28	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
75-25-2	Bromoform	ND	4.0	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.17	U
108-88-3	Toluene	ND	1.0	0.55	U
100-41-4	Ethylbenzene	ND	1.0	0.14	U
74-87-3	Chloromethane	ND	4.0	0.94	U
74-83-9	Bromomethane	ND	2.0	0.59	U
75-01-4	Vinyl chloride	ND	1.0	0.34	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-59	**Date Collected**	: 06/20/23 14:10
Client ID	: 10-B6EE (5-5.5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 07/01/23 23:43
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: AJK
Lab File ID	: V10230701C24	**Instrument ID**	: VOA110
Sample Amount	: 5.4 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 91
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.0	0.46	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.14	U
79-01-6	Trichloroethene	7.7	0.50	0.14	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U
179601-23-1	p/m-Xylene	ND	2.0	0.57	U
95-47-6	o-Xylene	ND	1.0	0.29	U
1330-20-7	Xylenes, Total	ND	1.0	0.29	U
156-59-2	cis-1,2-Dichloroethene	2.0	1.0	0.18	
540-59-0	1,2-Dichloroethene, Total	2.0	1.0	0.14	
74-95-3	Dibromomethane	ND	2.0	0.24	U
100-42-5	Styrene	ND	1.0	0.20	U
75-71-8	Dichlorodifluoromethane	ND	10	0.92	U
67-64-1	Acetone	13	10	4.9	
75-15-0	Carbon disulfide	ND	10	4.6	U
78-93-3	2-Butanone	2.5	10	2.2	J
108-05-4	Vinyl acetate	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.13	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.0	0.21	U
594-20-7	2,2-Dichloropropane	ND	2.0	0.20	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-59	Date Collected	: 06/20/23 14:10
Client ID	: 10-B6EE (5-5.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/01/23 23:43
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V10230701C24	Instrument ID	: VOA110
Sample Amount	: 5.4 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 91
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	U
142-28-9	1,3-Dichloropropane	ND	2.0	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
108-86-1	Bromobenzene	ND	2.0	0.15	U
104-51-8	n-Butylbenzene	ND	1.0	0.17	U
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U
98-06-6	tert-Butylbenzene	ND	2.0	0.12	U
95-49-8	o-Chlorotoluene	ND	2.0	0.19	U
106-43-4	p-Chlorotoluene	ND	2.0	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	1.0	U
87-68-3	Hexachlorobutadiene	ND	4.0	0.17	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.11	U
91-20-3	Naphthalene	ND	4.0	0.66	U
107-13-1	Acrylonitrile	ND	4.0	1.2	U
103-65-1	n-Propylbenzene	ND	1.0	0.17	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.32	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.28	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.34	U
123-91-1	1,4-Dioxane	ND	81	36.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.18	U
622-96-8	p-Ethyltoluene	ND	2.0	0.39	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.19	U
60-29-7	Ethyl ether	ND	2.0	0.34	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-59	**Date Collected**	: 06/20/23 14:10
Client ID	: 10-B6EE (5-5.5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 07/01/23 23:43
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: AJK
Lab File ID	: V10230701C24	**Instrument ID**	: VOA110
Sample Amount	: 5.4 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 91
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	1.4	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-60	Date Collected	: 06/20/23 14:40
Client ID	: 10-B6S (1.5-2)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 17:59
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A18	Instrument ID	: VOA104
Sample Amount	: 5.2 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 92
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	5.2	2.4	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.15	U
67-66-3	Chloroform	0.31	1.6	0.14	J
56-23-5	Carbon tetrachloride	ND	1.0	0.24	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	1.0	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	U
127-18-4	Tetrachloroethene	41	0.52	0.20	
108-90-7	Chlorobenzene	ND	0.52	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.2	0.72	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.27	U
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.17	U
75-27-4	Bromodichloromethane	ND	0.52	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.28	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.52	0.16	U
542-75-6	1,3-Dichloropropene, Total	ND	0.52	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.52	0.16	U
75-25-2	Bromoform	ND	4.2	0.26	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.52	0.17	U
71-43-2	Benzene	ND	0.52	0.17	U
108-88-3	Toluene	ND	1.0	0.56	U
100-41-4	Ethylbenzene	ND	1.0	0.15	U
74-87-3	Chloromethane	ND	4.2	0.97	U
74-83-9	Bromomethane	ND	2.1	0.60	U
75-01-4	Vinyl chloride	ND	1.0	0.35	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-60	**Date Collected**	: 06/20/23 14:40
Client ID	: 10-B6S (1.5-2)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 17:59
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A18	**Instrument ID**	: VOA104
Sample Amount	: 5.2 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 92
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-00-3	Chloroethane	ND	2.1	0.47	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.25	U
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.14	U
79-01-6	Trichloroethene	1.5	0.52	0.14	
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.15	U
541-73-1	1,3-Dichlorobenzene	ND	2.1	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	2.1	0.18	U
1634-04-4	Methyl tert butyl ether	ND	2.1	0.21	U
179601-23-1	p/m-Xylene	ND	2.1	0.58	U
95-47-6	o-Xylene	ND	1.0	0.30	U
1330-20-7	Xylenes, Total	ND	1.0	0.30	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	U
540-59-0	1,2-Dichloroethene, Total	ND	1.0	0.14	U
74-95-3	Dibromomethane	ND	2.1	0.25	U
100-42-5	Styrene	ND	1.0	0.20	U
75-71-8	Dichlorodifluoromethane	ND	10	0.95	U
67-64-1	Acetone	9.0	10	5.0	J
75-15-0	Carbon disulfide	ND	10	4.7	U
78-93-3	2-Butanone	ND	10	2.3	U
108-05-4	Vinyl acetate	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
96-18-4	1,2,3-Trichloropropane	ND	2.1	0.13	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.1	0.21	U
594-20-7	2,2-Dichloropropane	ND	2.1	0.21	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-60	**Date Collected**	: 06/20/23 14:40
Client ID	: 10-B6S (1.5-2)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 17:59
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A18	**Instrument ID**	: VOA104
Sample Amount	: 5.2 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 92
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
106-93-4	1,2-Dibromoethane	ND	1.0	0.29	U
142-28-9	1,3-Dichloropropane	ND	2.1	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.52	0.14	U
108-86-1	Bromobenzene	ND	2.1	0.15	U
104-51-8	n-Butylbenzene	ND	1.0	0.17	U
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U
98-06-6	tert-Butylbenzene	ND	2.1	0.12	U
95-49-8	o-Chlorotoluene	ND	2.1	0.20	U
106-43-4	p-Chlorotoluene	ND	2.1	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.1	1.0	U
87-68-3	Hexachlorobutadiene	ND	4.2	0.18	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.11	U
91-20-3	Naphthalene	ND	4.2	0.67	U
107-13-1	Acrylonitrile	ND	4.2	1.2	U
103-65-1	n-Propylbenzene	ND	1.0	0.18	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.1	0.33	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.1	0.28	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.1	0.20	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.1	0.35	U
123-91-1	1,4-Dioxane	ND	83	36.	U
105-05-5	p-Diethylbenzene	ND	2.1	0.18	U
622-96-8	p-Ethyltoluene	ND	2.1	0.40	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.1	0.20	U
60-29-7	Ethyl ether	ND	2.1	0.35	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-60	**Date Collected**	: 06/20/23 14:40
Client ID	: 10-B6S (1.5-2)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 17:59
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A18	**Instrument ID**	: VOA104
Sample Amount	: 5.2 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 92
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.2	1.5	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-61	Date Collected	: 06/20/23 14:45
Client ID	: 10-B6S (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 18:25
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A19	Instrument ID	: VOA104
Sample Amount	: 5.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 91
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	4.6	2.1	U
75-34-3	1,1-Dichloroethane	ND	0.93	0.13	U
67-66-3	Chloroform	0.16	1.4	0.13	J
56-23-5	Carbon tetrachloride	ND	0.93	0.21	U
78-87-5	1,2-Dichloropropane	ND	0.93	0.12	U
124-48-1	Dibromochloromethane	ND	0.93	0.13	U
79-00-5	1,1,2-Trichloroethane	ND	0.93	0.25	U
127-18-4	Tetrachloroethene	ND	0.46	0.18	U
108-90-7	Chlorobenzene	ND	0.46	0.12	U
75-69-4	Trichlorofluoromethane	ND	3.7	0.64	U
107-06-2	1,2-Dichloroethane	ND	0.93	0.24	U
71-55-6	1,1,1-Trichloroethane	ND	0.46	0.15	U
75-27-4	Bromodichloromethane	ND	0.46	0.10	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.93	0.25	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.46	0.15	U
542-75-6	1,3-Dichloropropene, Total	ND	0.46	0.15	U
563-58-6	1,1-Dichloropropene	ND	0.46	0.15	U
75-25-2	Bromoform	ND	3.7	0.23	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.46	0.15	U
71-43-2	Benzene	ND	0.46	0.15	U
108-88-3	Toluene	ND	0.93	0.50	U
100-41-4	Ethylbenzene	ND	0.93	0.13	U
74-87-3	Chloromethane	ND	3.7	0.86	U
74-83-9	Bromomethane	ND	1.8	0.54	U
75-01-4	Vinyl chloride	ND	0.93	0.31	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-61	Date Collected	: 06/20/23 14:45
Client ID	: 10-B6S (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 18:25
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A19	Instrument ID	: VOA104
Sample Amount	: 5.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 91
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	1.8	0.42	U
75-35-4	1,1-Dichloroethene	ND	0.93	0.22	U
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.13	U
79-01-6	Trichloroethene	ND	0.46	0.13	U
95-50-1	1,2-Dichlorobenzene	ND	1.8	0.13	U
541-73-1	1,3-Dichlorobenzene	ND	1.8	0.14	U
106-46-7	1,4-Dichlorobenzene	ND	1.8	0.16	U
1634-04-4	Methyl tert butyl ether	ND	1.8	0.19	U
179601-23-1	p/m-Xylene	ND	1.8	0.52	U
95-47-6	o-Xylene	ND	0.93	0.27	U
1330-20-7	Xylenes, Total	ND	0.93	0.27	U
156-59-2	cis-1,2-Dichloroethene	ND	0.93	0.16	U
540-59-0	1,2-Dichloroethene, Total	ND	0.93	0.13	U
74-95-3	Dibromomethane	ND	1.8	0.22	U
100-42-5	Styrene	ND	0.93	0.18	U
75-71-8	Dichlorodifluoromethane	ND	9.3	0.85	U
67-64-1	Acetone	6.2	9.3	4.4	J
75-15-0	Carbon disulfide	ND	9.3	4.2	U
78-93-3	2-Butanone	ND	9.3	2.0	U
108-05-4	Vinyl acetate	ND	9.3	2.0	U
108-10-1	4-Methyl-2-pentanone	ND	9.3	1.2	U
96-18-4	1,2,3-Trichloropropane	ND	1.8	0.12	U
591-78-6	2-Hexanone	ND	9.3	1.1	U
74-97-5	Bromochloromethane	ND	1.8	0.19	U
594-20-7	2,2-Dichloropropane	ND	1.8	0.19	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-61	Date Collected	: 06/20/23 14:45
Client ID	: 10-B6S (4.5-5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 18:25
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A19	Instrument ID	: VOA104
Sample Amount	: 5.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 91
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	0.93	0.26	U
142-28-9	1,3-Dichloropropane	ND	1.8	0.15	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.46	0.12	U
108-86-1	Bromobenzene	ND	1.8	0.13	U
104-51-8	n-Butylbenzene	ND	0.93	0.15	U
135-98-8	sec-Butylbenzene	ND	0.93	0.14	U
98-06-6	tert-Butylbenzene	ND	1.8	0.11	U
95-49-8	o-Chlorotoluene	ND	1.8	0.18	U
106-43-4	p-Chlorotoluene	ND	1.8	0.10	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.8	0.92	U
87-68-3	Hexachlorobutadiene	ND	3.7	0.16	U
98-82-8	Isopropylbenzene	ND	0.93	0.10	U
99-87-6	p-Isopropyltoluene	ND	0.93	0.10	U
91-20-3	Naphthalene	ND	3.7	0.60	U
107-13-1	Acrylonitrile	ND	3.7	1.1	U
103-65-1	n-Propylbenzene	ND	0.93	0.16	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.8	0.30	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.8	0.25	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.8	0.18	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.8	0.31	U
123-91-1	1,4-Dioxane	ND	74	32.	U
105-05-5	p-Diethylbenzene	ND	1.8	0.16	U
622-96-8	p-Ethyltoluene	ND	1.8	0.36	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	1.8	0.18	U
60-29-7	Ethyl ether	ND	1.8	0.32	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-61	**Date Collected**	: 06/20/23 14:45
Client ID	: 10-B6S (4.5-5)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 18:25
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A19	**Instrument ID**	: VOA104
Sample Amount	: 5.9 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 91
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.6	1.3	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-62	Date Collected	: 06/20/23 14:50
Client ID	: 10-B6S (9.5-10)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 18:51
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A20	Instrument ID	: VOA104
Sample Amount	: 5.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 90
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	4.7	2.2	U
75-34-3	1,1-Dichloroethane	ND	0.94	0.14	U
67-66-3	Chloroform	ND	1.4	0.13	U
56-23-5	Carbon tetrachloride	ND	0.94	0.22	U
78-87-5	1,2-Dichloropropane	ND	0.94	0.12	U
124-48-1	Dibromochloromethane	ND	0.94	0.13	U
79-00-5	1,1,2-Trichloroethane	ND	0.94	0.25	U
127-18-4	Tetrachloroethene	ND	0.47	0.18	U
108-90-7	Chlorobenzene	ND	0.47	0.12	U
75-69-4	Trichlorofluoromethane	ND	3.8	0.65	U
107-06-2	1,2-Dichloroethane	ND	0.94	0.24	U
71-55-6	1,1,1-Trichloroethane	ND	0.47	0.16	U
75-27-4	Bromodichloromethane	ND	0.47	0.10	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.94	0.26	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.47	0.15	U
542-75-6	1,3-Dichloropropene, Total	ND	0.47	0.15	U
563-58-6	1,1-Dichloropropene	ND	0.47	0.15	U
75-25-2	Bromoform	ND	3.8	0.23	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.47	0.16	U
71-43-2	Benzene	ND	0.47	0.16	U
108-88-3	Toluene	ND	0.94	0.51	U
100-41-4	Ethylbenzene	ND	0.94	0.13	U
74-87-3	Chloromethane	ND	3.8	0.88	U
74-83-9	Bromomethane	ND	1.9	0.55	U
75-01-4	Vinyl chloride	ND	0.94	0.32	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-62	Date Collected	: 06/20/23 14:50
Client ID	: 10-B6S (9.5-10)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/26/23 18:51
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: JIC
Lab File ID	: V04230626A20	Instrument ID	: VOA104
Sample Amount	: 5.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 90
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	1.9	0.42	U
75-35-4	1,1-Dichloroethene	ND	0.94	0.22	U
156-60-5	trans-1,2-Dichloroethene	0.19	1.4	0.13	J
79-01-6	Trichloroethene	ND	0.47	0.13	U
95-50-1	1,2-Dichlorobenzene	ND	1.9	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	1.9	0.14	U
106-46-7	1,4-Dichlorobenzene	ND	1.9	0.16	U
1634-04-4	Methyl tert butyl ether	ND	1.9	0.19	U
179601-23-1	p/m-Xylene	ND	1.9	0.53	U
95-47-6	o-Xylene	ND	0.94	0.27	U
1330-20-7	Xylenes, Total	ND	0.94	0.27	U
156-59-2	cis-1,2-Dichloroethene	ND	0.94	0.16	U
540-59-0	1,2-Dichloroethene, Total	0.19	0.94	0.13	J
74-95-3	Dibromomethane	ND	1.9	0.22	U
100-42-5	Styrene	ND	0.94	0.18	U
75-71-8	Dichlorodifluoromethane	ND	9.4	0.86	U
67-64-1	Acetone	72	9.4	4.5	
75-15-0	Carbon disulfide	ND	9.4	4.3	U
78-93-3	2-Butanone	21	9.4	2.1	
108-05-4	Vinyl acetate	ND	9.4	2.0	U
108-10-1	4-Methyl-2-pentanone	ND	9.4	1.2	U
96-18-4	1,2,3-Trichloropropane	ND	1.9	0.12	U
591-78-6	2-Hexanone	ND	9.4	1.1	U
74-97-5	Bromochloromethane	ND	1.9	0.19	U
594-20-7	2,2-Dichloropropane	ND	1.9	0.19	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-62	**Date Collected**	: 06/20/23 14:50
Client ID	: 10-B6S (9.5-10)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 18:51
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A20	**Instrument ID**	: VOA104
Sample Amount	: 5.9 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 90
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
106-93-4	1,2-Dibromoethane	ND	0.94	0.26	U
142-28-9	1,3-Dichloropropane	ND	1.9	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.47	0.12	U
108-86-1	Bromobenzene	ND	1.9	0.14	U
104-51-8	n-Butylbenzene	ND	0.94	0.16	U
135-98-8	sec-Butylbenzene	ND	0.94	0.14	U
98-06-6	tert-Butylbenzene	ND	1.9	0.11	U
95-49-8	o-Chlorotoluene	ND	1.9	0.18	U
106-43-4	p-Chlorotoluene	ND	1.9	0.10	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.8	0.94	U
87-68-3	Hexachlorobutadiene	ND	3.8	0.16	U
98-82-8	Isopropylbenzene	ND	0.94	0.10	U
99-87-6	p-Isopropyltoluene	ND	0.94	0.10	U
91-20-3	Naphthalene	ND	3.8	0.61	U
107-13-1	Acrylonitrile	ND	3.8	1.1	U
103-65-1	n-Propylbenzene	ND	0.94	0.16	U
87-61-6	1,2,3-Trichlorobenzene	ND	1.9	0.30	U
120-82-1	1,2,4-Trichlorobenzene	ND	1.9	0.26	U
108-67-8	1,3,5-Trimethylbenzene	ND	1.9	0.18	U
95-63-6	1,2,4-Trimethylbenzene	ND	1.9	0.31	U
123-91-1	1,4-Dioxane	ND	75	33.	U
105-05-5	p-Diethylbenzene	ND	1.9	0.17	U
622-96-8	p-Ethyltoluene	ND	1.9	0.36	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	1.9	0.18	U
60-29-7	Ethyl ether	ND	1.9	0.32	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-62	**Date Collected**	: 06/20/23 14:50
Client ID	: 10-B6S (9.5-10)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/26/23 18:51
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: JIC
Lab File ID	: V04230626A20	**Instrument ID**	: VOA104
Sample Amount	: 5.9 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: 90
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.7	1.3	U

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-08	Date Collected	: 06/20/23 11:15
Client ID	: 8B-1N (5.0-5.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 15:15
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: MRC
Lab File ID	: WG1797587.pdf	Instrument ID	: TRACE8
Sample Amount	: 1.284g	%Solids	: 77
Digestion Method	: EPA 3050B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	9170	10.2	2.74	
7440-36-0	Antimony, Total	5.84	5.08	0.386	J+
7440-38-2	Arsenic, Total	21.3	1.02	0.211	J+
7440-39-3	Barium, Total	501	1.02	0.177	J-
7440-41-7	Beryllium, Total	0.856	0.508	0.034	
7440-43-9	Cadmium, Total	0.554	1.02	0.100	J
7440-70-2	Calcium, Total	20200	10.2	3.55	
7440-47-3	Chromium, Total	47.6	1.02	0.098	J-
7440-48-4	Cobalt, Total	8.15	2.03	0.168	
7440-50-8	Copper, Total	280	1.02	0.262	
7439-89-6	Iron, Total	31400	5.08	0.917	
7439-92-1	Lead, Total	407	5.08	0.272	
7439-95-4	Magnesium, Total	5750	10.2	1.56	
7439-96-5	Manganese, Total	731	1.02	0.161	
7440-02-0	Nickel, Total	18.0	2.54	0.246	
7440-09-7	Potassium, Total	972	254	14.6	
7782-49-2	Selenium, Total	1.35	2.03	0.262	J
7440-22-4	Silver, Total	ND	0.508	0.287	U
7440-23-5	Sodium, Total	458	203	3.20	
7440-28-0	Thallium, Total	0.993	2.03	0.320	J
7440-62-2	Vanadium, Total	39.6	1.02	0.206	
7440-66-6	Zinc, Total	227	5.08	0.298	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-12	Date Collected	: 06/20/23 10:50
Client ID	: 8B-1E (6.0-6.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 15:19
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: MRC
Lab File ID	: WG1797587.pdf	Instrument ID	: TRACE8
Sample Amount	: 1.279g	%Solids	: 82
Digestion Method	: EPA 3050B	Date Digested	: 06/27/23

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Total	8350	9.49	2.56		
7440-36-0	Antimony, Total	1.35	4.74	0.360	J	J+
7440-38-2	Arsenic, Total	4.08	0.949	0.197		J+
7440-39-3	Barium, Total	72.9	0.949	0.165		J-
7440-41-7	Beryllium, Total	0.400	0.474	0.031	J	
7440-43-9	Cadmium, Total	0.186	0.949	0.093	J	
7440-70-2	Calcium, Total	1600	9.49	3.32		
7440-47-3	Chromium, Total	22.4	0.949	0.091		J-
7440-48-4	Cobalt, Total	4.99	1.90	0.158		
7440-50-8	Copper, Total	51.2	0.949	0.245		
7439-89-6	Iron, Total	12400	4.74	0.857		
7439-92-1	Lead, Total	86.9	4.74	0.254		
7439-95-4	Magnesium, Total	1720	9.49	1.46		
7439-96-5	Manganese, Total	93.5	0.949	0.151		
7440-02-0	Nickel, Total	11.1	2.37	0.230		
7440-09-7	Potassium, Total	659	237	13.7		
7782-49-2	Selenium, Total	0.665	1.90	0.245	J	
7440-22-4	Silver, Total	ND	0.474	0.268	U	
7440-23-5	Sodium, Total	132	190	2.99	J	
7440-28-0	Thallium, Total	0.326	1.90	0.299	J	
7440-62-2	Vanadium, Total	17.0	0.949	0.193		
7440-66-6	Zinc, Total	80.1	4.74	0.278		

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-13	Date Collected	: 06/20/23 09:55
Client ID	: 8B-1S (1.5-2.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 15:22
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: MRC
Lab File ID	: WG1797587.pdf	Instrument ID	: TRACE8
Sample Amount	: 1.317g	%Solids	: 90
Digestion Method	: EPA 3050B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	4570	8.46	2.28	
7440-36-0	Antimony, Total	4.89	4.23	0.321	J+
7440-38-2	Arsenic, Total	11.4	0.846	0.176	J+
7440-39-3	Barium, Total	173	0.846	0.147	J-
7440-41-7	Beryllium, Total	0.398	0.423	0.028	J
7440-43-9	Cadmium, Total	1.23	0.846	0.083	
7440-70-2	Calcium, Total	4580	8.46	2.96	
7440-47-3	Chromium, Total	22.4	0.846	0.081	J-
7440-48-4	Cobalt, Total	7.41	1.69	0.140	
7440-50-8	Copper, Total	102	0.846	0.218	
7439-89-6	Iron, Total	21000	4.23	0.764	
7439-92-1	Lead, Total	1000	4.23	0.227	
7439-95-4	Magnesium, Total	1320	8.46	1.30	
7439-96-5	Manganese, Total	225	0.846	0.134	
7440-02-0	Nickel, Total	17.6	2.11	0.205	
7440-09-7	Potassium, Total	602	211	12.2	
7782-49-2	Selenium, Total	1.60	1.69	0.218	J
7440-22-4	Silver, Total	ND	0.423	0.239	U
7440-23-5	Sodium, Total	170	169	2.66	
7440-28-0	Thallium, Total	0.545	1.69	0.266	J
7440-62-2	Vanadium, Total	18.1	0.846	0.172	
7440-66-6	Zinc, Total	290	4.23	0.248	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-14	Date Collected	: 06/20/23 10:00
Client ID	: 8B-1S (4.5-5.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 15:25
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: MRC
Lab File ID	: WG1797587.pdf	Instrument ID	: TRACE8
Sample Amount	: 1.308g	%Solids	: 84
Digestion Method	: EPA 3050B	Date Digested	: 06/27/23

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Total	7000	9.08	2.45		
7440-36-0	Antimony, Total	1.68	4.54	0.345	J	J+
7440-38-2	Arsenic, Total	7.52	0.908	0.189		J+
7440-39-3	Barium, Total	184	0.908	0.158		J-
7440-41-7	Beryllium, Total	0.536	0.454	0.030		
7440-43-9	Cadmium, Total	0.408	0.908	0.089	J	
7440-70-2	Calcium, Total	3590	9.08	3.18		
7440-47-3	Chromium, Total	18.9	0.908	0.087		J-
7440-48-4	Cobalt, Total	8.61	1.82	0.151		
7440-50-8	Copper, Total	38.4	0.908	0.234		
7439-89-6	Iron, Total	22700	4.54	0.820		
7439-92-1	Lead, Total	70.2	4.54	0.243		
7439-95-4	Magnesium, Total	3030	9.08	1.40		
7439-96-5	Manganese, Total	296	0.908	0.144		
7440-02-0	Nickel, Total	15.3	2.27	0.220		
7440-09-7	Potassium, Total	869	227	13.1		
7782-49-2	Selenium, Total	ND	1.82	0.234	U	
7440-22-4	Silver, Total	ND	0.454	0.257	U	
7440-23-5	Sodium, Total	264	182	2.86		
7440-28-0	Thallium, Total	0.635	1.82	0.286	J	
7440-62-2	Vanadium, Total	32.1	0.908	0.184		
7440-66-6	Zinc, Total	444	4.54	0.266		

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-15	Date Collected	: 06/20/23 10:05
Client ID	: 8B-1S (6.5-7.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 15:28
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: MRC
Lab File ID	: WG1797587.pdf	Instrument ID	: TRACE8
Sample Amount	: 1.28g	%Solids	: 83
Digestion Method	: EPA 3050B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	4440	9.38	2.53	
7440-36-0	Antimony, Total	4.87	4.69	0.356	J+
7440-38-2	Arsenic, Total	8.14	0.938	0.195	J+
7440-39-3	Barium, Total	170	0.938	0.163	J-
7440-41-7	Beryllium, Total	0.390	0.469	0.031	J
7440-43-9	Cadmium, Total	0.639	0.938	0.092	J
7440-70-2	Calcium, Total	19100	9.38	3.28	
7440-47-3	Chromium, Total	77.8	0.938	0.090	J-
7440-48-4	Cobalt, Total	5.76	1.88	0.156	
7440-50-8	Copper, Total	87.9	0.938	0.242	
7439-89-6	Iron, Total	21800	4.69	0.847	
7439-92-1	Lead, Total	305	4.69	0.251	
7439-95-4	Magnesium, Total	4800	9.38	1.44	
7439-96-5	Manganese, Total	200	0.938	0.149	
7440-02-0	Nickel, Total	27.1	2.34	0.227	
7440-09-7	Potassium, Total	701	234	13.5	
7782-49-2	Selenium, Total	0.738	1.88	0.242	J
7440-22-4	Silver, Total	ND	0.469	0.265	U
7440-23-5	Sodium, Total	269	188	2.95	
7440-28-0	Thallium, Total	0.463	1.88	0.295	J
7440-62-2	Vanadium, Total	18.4	0.938	0.190	
7440-66-6	Zinc, Total	249	4.69	0.275	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-19	Date Collected	: 06/20/23 09:35
Client ID	: 8B-1W (1.5-2.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 15:46
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: MRC
Lab File ID	: WG1797587.pdf	Instrument ID	: TRACE8
Sample Amount	: 1.33g	%Solids	: 88
Digestion Method	: EPA 3050B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	4630	8.58	2.32	
7440-36-0	Antimony, Total	45.0	4.29	0.326	J+
7440-38-2	Arsenic, Total	11.0	0.858	0.178	J+
7440-39-3	Barium, Total	232	0.858	0.149	J-
7440-41-7	Beryllium, Total	0.376	0.429	0.028	J
7440-43-9	Cadmium, Total	0.839	0.858	0.084	J
7440-70-2	Calcium, Total	8990	8.58	3.00	
7440-47-3	Chromium, Total	17.6	0.858	0.082	J-
7440-48-4	Cobalt, Total	7.72	1.72	0.142	
7440-50-8	Copper, Total	111	0.858	0.221	
7439-89-6	Iron, Total	21200	4.29	0.775	
7439-92-1	Lead, Total	309	4.29	0.230	
7439-95-4	Magnesium, Total	1390	8.58	1.32	
7439-96-5	Manganese, Total	303	0.858	0.136	
7440-02-0	Nickel, Total	14.8	2.14	0.208	
7440-09-7	Potassium, Total	605	214	12.4	
7782-49-2	Selenium, Total	1.15	1.72	0.221	J
7440-22-4	Silver, Total	ND	0.429	0.243	U
7440-23-5	Sodium, Total	405	172	2.70	
7440-28-0	Thallium, Total	0.620	1.72	0.270	J
7440-62-2	Vanadium, Total	17.2	0.858	0.174	
7440-66-6	Zinc, Total	368	4.29	0.251	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: L2335541-20	**Date Collected**	: 06/20/23 09:40
Client ID	: 8B-1W (4.5-5.0)	**Date Received**	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	**Date Analyzed**	: 06/29/23 16:27
Sample Matrix	: SOIL	**Dilution Factor**	: 20
Analytical Method	: 1,6010D	**Analyst**	: MRC
Lab File ID	: WG1797587.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 1.289g	**%Solids**	: 67
Digestion Method	: EPA 3050B	**Date Digested**	: 06/27/23

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-89-6	Iron, Total	109000	57.8	10.4	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-20	Date Collected	: 06/20/23 09:40
Client ID	: 8B-1W (4.5-5.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 15:49
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: MRC
Lab File ID	: WG1797587.pdf	Instrument ID	: TRACE8
Sample Amount	: 1.289g	%Solids	: 67
Digestion Method	: EPA 3050B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	14200	11.6	3.12	
7440-36-0	Antimony, Total	1390	5.78	0.439	J+
7440-38-2	Arsenic, Total	97.9	1.16	0.240	J+
7440-39-3	Barium, Total	332	1.16	0.201	J-
7440-41-7	Beryllium, Total	1.30	0.578	0.038	
7440-43-9	Cadmium, Total	9.61	1.16	0.113	
7440-70-2	Calcium, Total	14400	11.6	4.05	
7440-47-3	Chromium, Total	54.6	1.16	0.111	J-
7440-48-4	Cobalt, Total	157	2.31	0.192	
7440-50-8	Copper, Total	658	1.16	0.298	
7439-92-1	Lead, Total	3110	5.78	0.310	
7439-95-4	Magnesium, Total	966	11.6	1.78	
7439-96-5	Manganese, Total	1080	1.16	0.184	
7440-02-0	Nickel, Total	118	2.89	0.280	
7440-09-7	Potassium, Total	5360	289	16.6	
7782-49-2	Selenium, Total	5.04	2.31	0.298	
7440-22-4	Silver, Total	20.0	0.578	0.327	
7440-23-5	Sodium, Total	17200	231	3.64	
7440-28-0	Thallium, Total	1.77	2.31	0.364	J
7440-62-2	Vanadium, Total	15.2	1.16	0.235	
7440-66-6	Zinc, Total	3180	5.78	0.339	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-21	Date Collected	: 06/20/23 09:45
Client ID	: 8B-1W (6.5-7.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 14:34
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: MRC
Lab File ID	: WG1797587.pdf	Instrument ID	: TRACE8
Sample Amount	: 1.3g	%Solids	: 50
Digestion Method	: EPA 3050B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	9710	15.3	4.12	J
7440-36-0	Antimony, Total	51.1	7.63	0.580	J+
7440-38-2	Arsenic, Total	20.1	1.53	0.317	J+
7440-39-3	Barium, Total	455	1.53	0.266	J-
7440-41-7	Beryllium, Total	0.918	0.763	0.050	
7440-43-9	Cadmium, Total	1.65	1.53	0.150	
7440-70-2	Calcium, Total	21000	15.3	5.34	J
7440-47-3	Chromium, Total	83.6	1.53	0.146	J-
7440-48-4	Cobalt, Total	10.8	3.05	0.253	J
7440-50-8	Copper, Total	214	1.53	0.394	J
7439-92-1	Lead, Total	658	7.63	0.409	
7439-95-4	Magnesium, Total	2910	15.3	2.35	
7439-96-5	Manganese, Total	802	1.53	0.243	J
7440-02-0	Nickel, Total	37.2	3.82	0.369	J
7440-09-7	Potassium, Total	1080	382	22.0	J
7782-49-2	Selenium, Total	1.78	3.05	0.394	J
7440-22-4	Silver, Total	ND	0.763	0.432	U
7440-23-5	Sodium, Total	680	305	4.81	
7440-28-0	Thallium, Total	1.47	3.05	0.481	J
7440-62-2	Vanadium, Total	35.9	1.53	0.310	J
7440-66-6	Zinc, Total	2240	7.63	0.447	J

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-21	Date Collected	: 06/20/23 09:45
Client ID	: 8B-1W (6.5-7.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 16:30
Sample Matrix	: SOIL	Dilution Factor	: 20
Analytical Method	: 1,6010D	Analyst	: MRC
Lab File ID	: WG1797587.pdf	Instrument ID	: TRACE8
Sample Amount	: 1.3g	%Solids	: 50
Digestion Method	: EPA 3050B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-89-6	Iron, Total	53400	76.3	13.8	J

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-22	Date Collected	: 06/20/23 09:45
Client ID	: 8B-1W (6.5-7.0) DUP	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 15:52
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: MRC
Lab File ID	: WG1797587.pdf	Instrument ID	: TRACE8
Sample Amount	: 1.277g	%Solids	: 76
Digestion Method	: EPA 3050B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	5100	10.3	2.78	J
7440-36-0	Antimony, Total	8.56	5.14	0.391	J+
7440-38-2	Arsenic, Total	17.6	1.03	0.214	J+
7440-39-3	Barium, Total	175	1.03	0.179	J-
7440-41-7	Beryllium, Total	0.299	0.514	0.034	J
7440-43-9	Cadmium, Total	0.901	1.03	0.101	J
7440-70-2	Calcium, Total	8420	10.3	3.60	J
7440-47-3	Chromium, Total	13.9	1.03	0.099	J-
7440-48-4	Cobalt, Total	6.24	2.06	0.171	J
7440-50-8	Copper, Total	130	1.03	0.265	J
7439-89-6	Iron, Total	28100	5.14	0.929	J
7439-92-1	Lead, Total	604	5.14	0.276	
7439-95-4	Magnesium, Total	3770	10.3	1.58	
7439-96-5	Manganese, Total	252	1.03	0.164	J
7440-02-0	Nickel, Total	12.9	2.57	0.249	J
7440-09-7	Potassium, Total	535	257	14.8	J
7782-49-2	Selenium, Total	1.00	2.06	0.265	J
7440-22-4	Silver, Total	0.512	0.514	0.291	J
7440-23-5	Sodium, Total	150	206	3.24	J
7440-28-0	Thallium, Total	0.531	2.06	0.324	J
7440-62-2	Vanadium, Total	17.8	1.03	0.209	J
7440-66-6	Zinc, Total	406	5.14	0.302	J

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-20	Date Collected	: 06/20/23 09:40
Client ID	: 8B-1W (4.5-5.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/12/23 15:23
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,6010D	Analyst	: JMF
Lab File ID	: WG1802150.pdf	Instrument ID	: TRACE5
Sample Amount	: 5ml	%Solids	: 67
Digestion Method	: EPA 3015	Date Digested	: 07/11/23
		Date Extracted	: 07/10/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-38-2	Arsenic, TCLP	ND	1.00	0.0190	U
7440-39-3	Barium, TCLP	0.782	0.500	0.0210	
7440-43-9	Cadmium, TCLP	ND	0.100	0.0100	U
7440-47-3	Chromium, TCLP	ND	0.200	0.0210	U
7439-92-1	Lead, TCLP	0.253	0.500	0.0270	J
7782-49-2	Selenium, TCLP	ND	0.500	0.0350	U
7440-22-4	Silver, TCLP	ND	0.100	0.0280	U

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-21	Date Collected	: 06/20/23 09:45
Client ID	: 8B-1W (6.5-7.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/16/23 22:02
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,6010D	Analyst	: TAA
Lab File ID	: WG1803825.pdf	Instrument ID	: TRACE5
Sample Amount	: 5ml	%Solids	: 50
Digestion Method	: EPA 3015	Date Digested	: 07/14/23
		Date Extracted	: 07/10/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-38-2	Arsenic, TCLP	0.0531	1.00	0.0190	J
7440-39-3	Barium, TCLP	0.812	0.500	0.0210	
7440-43-9	Cadmium, TCLP	ND	0.100	0.0100	U
7440-47-3	Chromium, TCLP	ND	0.200	0.0210	U
7439-92-1	Lead, TCLP	0.188	0.500	0.0270	J
7782-49-2	Selenium, TCLP	ND	0.500	0.0350	U
7440-22-4	Silver, TCLP	ND	0.100	0.0280	U

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-09	Date Collected	: 06/20/23 12:30
Client ID	: 8B-1NN (1.5-2.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/16/23 18:53
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: TAA
Lab File ID	: WG1803825.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.278g	%Solids	: 87
Digestion Method	: EPA 3050B	Date Digested	: 07/08/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	4490	8.95	2.42	
7440-36-0	Antimony, Total	5.94	4.48	0.340	J+
7440-38-2	Arsenic, Total	22.0	0.895	0.186	J+
7440-39-3	Barium, Total	105	0.895	0.156	J-
7440-41-7	Beryllium, Total	0.368	0.448	0.030	J
7440-43-9	Cadmium, Total	1.61	0.895	0.088	
7440-70-2	Calcium, Total	3470	8.95	3.13	
7440-47-3	Chromium, Total	17.2	0.895	0.086	J-
7440-48-4	Cobalt, Total	7.78	1.79	0.149	
7440-50-8	Copper, Total	216	0.895	0.231	
7439-89-6	Iron, Total	16300	4.48	0.808	
7439-92-1	Lead, Total	459	4.48	0.240	
7439-95-4	Magnesium, Total	1410	8.95	1.38	
7439-96-5	Manganese, Total	375	0.895	0.142	
7440-02-0	Nickel, Total	20.1	2.24	0.217	
7440-09-7	Potassium, Total	474	224	12.9	
7782-49-2	Selenium, Total	2.13	1.79	0.231	
7440-22-4	Silver, Total	0.705	0.448	0.253	
7440-23-5	Sodium, Total	196	179	2.82	
7440-28-0	Thallium, Total	ND	1.79	0.282	U
7440-62-2	Vanadium, Total	24.6	0.895	0.182	
7440-66-6	Zinc, Total	447	4.48	0.262	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-10	Date Collected	: 06/20/23 12:35
Client ID	: 8B-1NN (4.5-5.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/16/23 18:57
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: TAA
Lab File ID	: WG1803825.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.312g	%Solids	: 90
Digestion Method	: EPA 3050B	Date Digested	: 07/08/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	5550	8.46	2.28	
7440-36-0	Antimony, Total	10.2	4.23	0.321	J+
7440-38-2	Arsenic, Total	10.8	0.846	0.176	J+
7440-39-3	Barium, Total	182	0.846	0.147	J-
7440-41-7	Beryllium, Total	0.391	0.423	0.028	J
7440-43-9	Cadmium, Total	0.793	0.846	0.083	J
7440-70-2	Calcium, Total	7920	8.46	2.96	
7440-47-3	Chromium, Total	18.3	0.846	0.081	J-
7440-48-4	Cobalt, Total	11.4	1.69	0.140	
7440-50-8	Copper, Total	128	0.846	0.218	
7439-89-6	Iron, Total	20500	4.23	0.764	
7439-92-1	Lead, Total	620	4.23	0.227	
7439-95-4	Magnesium, Total	4040	8.46	1.30	
7439-96-5	Manganese, Total	236	0.846	0.134	
7440-02-0	Nickel, Total	20.5	2.11	0.205	
7440-09-7	Potassium, Total	767	211	12.2	
7782-49-2	Selenium, Total	0.706	1.69	0.218	J
7440-22-4	Silver, Total	ND	0.423	0.239	U
7440-23-5	Sodium, Total	327	169	2.66	
7440-28-0	Thallium, Total	0.276	1.69	0.266	J
7440-62-2	Vanadium, Total	24.8	0.846	0.172	
7440-66-6	Zinc, Total	416	4.23	0.248	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-11	Date Collected	: 06/20/23 12:40
Client ID	: 8B-1NN (6.0-6.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/16/23 19:02
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: TAA
Lab File ID	: WG1803825.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.32g	%Solids	: 89
Digestion Method	: EPA 3050B	Date Digested	: 07/08/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	5070	8.54	2.31	
7440-36-0	Antimony, Total	5.82	4.27	0.324	J+
7440-38-2	Arsenic, Total	9.91	0.854	0.178	J+
7440-39-3	Barium, Total	43.6	0.854	0.149	J-
7440-41-7	Beryllium, Total	0.236	0.427	0.028	J
7440-43-9	Cadmium, Total	0.491	0.854	0.084	J
7440-70-2	Calcium, Total	2630	8.54	2.99	
7440-47-3	Chromium, Total	19.0	0.854	0.082	J-
7440-48-4	Cobalt, Total	5.06	1.71	0.142	
7440-50-8	Copper, Total	80.9	0.854	0.220	
7439-89-6	Iron, Total	32200	4.27	0.771	
7439-92-1	Lead, Total	81.4	4.27	0.229	
7439-95-4	Magnesium, Total	957	8.54	1.32	
7439-96-5	Manganese, Total	477	0.854	0.136	
7440-02-0	Nickel, Total	17.1	2.14	0.207	
7440-09-7	Potassium, Total	394	214	12.3	
7782-49-2	Selenium, Total	1.26	1.71	0.220	J
7440-22-4	Silver, Total	ND	0.427	0.242	U
7440-23-5	Sodium, Total	121	171	2.69	J
7440-28-0	Thallium, Total	ND	1.71	0.269	U
7440-62-2	Vanadium, Total	27.8	0.854	0.173	
7440-66-6	Zinc, Total	139	4.27	0.250	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-16	Date Collected	: 06/20/23 10:20
Client ID	: 8B-1SS (1.5-2.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/16/23 22:42
Sample Matrix	: SOIL	Dilution Factor	: 20
Analytical Method	: 1,6010D	Analyst	: TAA
Lab File ID	: WG1803825.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.283g	%Solids	: 87
Digestion Method	: EPA 3050B	Date Digested	: 07/08/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-70-2	Calcium, Total	134000	89.8	31.4	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-16	Date Collected	: 06/20/23 10:20
Client ID	: 8B-1SS (1.5-2.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/16/23 19:06
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: TAA
Lab File ID	: WG1803825.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.283g	%Solids	: 87
Digestion Method	: EPA 3050B	Date Digested	: 07/08/23

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Total	3700	8.98	2.42		
7440-36-0	Antimony, Total	1.79	4.49	0.341	J	J+
7440-38-2	Arsenic, Total	13.6	0.898	0.187		J+
7440-39-3	Barium, Total	62.9	0.898	0.156		J-
7440-41-7	Beryllium, Total	0.316	0.449	0.030	J	
7440-43-9	Cadmium, Total	0.661	0.898	0.088	J	
7440-47-3	Chromium, Total	12.2	0.898	0.086		J-
7440-48-4	Cobalt, Total	6.42	1.80	0.149		
7440-50-8	Copper, Total	79.6	0.898	0.232		
7439-89-6	Iron, Total	14200	4.49	0.811		
7439-92-1	Lead, Total	117	4.49	0.241		
7439-95-4	Magnesium, Total	6280	8.98	1.38		
7439-96-5	Manganese, Total	241	0.898	0.143		
7440-02-0	Nickel, Total	16.2	2.24	0.217		
7440-09-7	Potassium, Total	477	224	12.9		
7782-49-2	Selenium, Total	0.267	1.80	0.232	J	
7440-22-4	Silver, Total	ND	0.449	0.254	U	
7440-23-5	Sodium, Total	200	180	2.83		
7440-28-0	Thallium, Total	0.422	1.80	0.283	J	
7440-62-2	Vanadium, Total	14.5	0.898	0.182		
7440-66-6	Zinc, Total	243	4.49	0.263		

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-17	Date Collected	: 06/20/23 10:25
Client ID	: 8B-1SS (4.5-5.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/16/23 19:11
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: TAA
Lab File ID	: WG1803825.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.294g	%Solids	: 75
Digestion Method	: EPA 3050B	Date Digested	: 07/08/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	4740	10.4	2.80	
7440-36-0	Antimony, Total	7.76	5.19	0.394	J+
7440-38-2	Arsenic, Total	27.2	1.04	0.216	J+
7440-39-3	Barium, Total	281	1.04	0.180	J-
7440-41-7	Beryllium, Total	0.600	0.519	0.034	
7440-43-9	Cadmium, Total	3.14	1.04	0.102	
7440-70-2	Calcium, Total	13800	10.4	3.63	
7440-47-3	Chromium, Total	38.1	1.04	0.100	J-
7440-48-4	Cobalt, Total	11.3	2.07	0.172	
7440-50-8	Copper, Total	382	1.04	0.268	
7439-89-6	Iron, Total	38200	5.19	0.937	
7439-92-1	Lead, Total	638	5.19	0.278	
7439-95-4	Magnesium, Total	1760	10.4	1.60	
7439-96-5	Manganese, Total	290	1.04	0.165	
7440-02-0	Nickel, Total	54.2	2.59	0.251	
7440-09-7	Potassium, Total	617	259	14.9	
7782-49-2	Selenium, Total	0.721	2.07	0.268	J
7440-22-4	Silver, Total	0.471	0.519	0.294	J
7440-23-5	Sodium, Total	320	207	3.27	
7440-28-0	Thallium, Total	0.733	2.07	0.327	J
7440-62-2	Vanadium, Total	26.5	1.04	0.210	
7440-66-6	Zinc, Total	1110	5.19	0.304	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-18	Date Collected	: 06/20/23 10:30
Client ID	: 8B-1SS (6.5-7.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/16/23 19:16
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: TAA
Lab File ID	: WG1803825.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.324g	%Solids	: 86
Digestion Method	: EPA 3050B	Date Digested	: 07/08/23

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Total	5120	8.80	2.38		
7440-36-0	Antimony, Total	1.10	4.40	0.334	J	J+
7440-38-2	Arsenic, Total	5.57	0.880	0.183		J+
7440-39-3	Barium, Total	78.4	0.880	0.153		J-
7440-41-7	Beryllium, Total	0.336	0.440	0.029	J	
7440-43-9	Cadmium, Total	0.438	0.880	0.086	J	
7440-70-2	Calcium, Total	10000	8.80	3.08		
7440-47-3	Chromium, Total	40.9	0.880	0.085		J-
7440-48-4	Cobalt, Total	5.09	1.76	0.146		
7440-50-8	Copper, Total	46.6	0.880	0.227		
7439-89-6	Iron, Total	15400	4.40	0.795		
7439-92-1	Lead, Total	85.0	4.40	0.236		
7439-95-4	Magnesium, Total	4550	8.80	1.36		
7439-96-5	Manganese, Total	167	0.880	0.140		
7440-02-0	Nickel, Total	14.0	2.20	0.213		
7440-09-7	Potassium, Total	496	220	12.7		
7782-49-2	Selenium, Total	0.437	1.76	0.227	J	
7440-22-4	Silver, Total	ND	0.440	0.249	U	
7440-23-5	Sodium, Total	224	176	2.77		
7440-28-0	Thallium, Total	ND	1.76	0.277	U	
7440-62-2	Vanadium, Total	25.5	0.880	0.179		
7440-66-6	Zinc, Total	134	4.40	0.258		

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-23	Date Collected	: 06/20/23 11:45
Client ID	: 8B-1WW (1.0-1.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/16/23 19:20
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: TAA
Lab File ID	: WG1803825.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.328g	%Solids	: 93
Digestion Method	: EPA 3050B	Date Digested	: 07/08/23

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Total	4110	8.14	2.20		
7440-36-0	Antimony, Total	2.92	4.07	0.309	J	J+
7440-38-2	Arsenic, Total	11.7	0.814	0.169		J+
7440-39-3	Barium, Total	94.9	0.814	0.142		J-
7440-41-7	Beryllium, Total	0.284	0.407	0.027	J	
7440-43-9	Cadmium, Total	1.16	0.814	0.080		
7440-70-2	Calcium, Total	24000	8.14	2.85		
7440-47-3	Chromium, Total	188	0.814	0.078		J-
7440-48-4	Cobalt, Total	6.10	1.63	0.135		
7440-50-8	Copper, Total	111	0.814	0.210		
7439-89-6	Iron, Total	15700	4.07	0.735		
7439-92-1	Lead, Total	413	4.07	0.218		
7439-95-4	Magnesium, Total	10300	8.14	1.25		
7439-96-5	Manganese, Total	193	0.814	0.129		
7440-02-0	Nickel, Total	107	2.04	0.197		
7440-09-7	Potassium, Total	587	204	11.7		
7782-49-2	Selenium, Total	0.633	1.63	0.210	J	
7440-22-4	Silver, Total	0.319	0.407	0.230	J	
7440-23-5	Sodium, Total	249	163	2.56		
7440-28-0	Thallium, Total	0.353	1.63	0.256	J	
7440-62-2	Vanadium, Total	23.9	0.814	0.165		
7440-66-6	Zinc, Total	352	4.07	0.238		

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-24	Date Collected	: 06/20/23 11:50
Client ID	: 8B-1WW (4.5-5.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/16/23 19:25
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: TAA
Lab File ID	: WG1803825.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.317g	%Solids	: 76
Digestion Method	: EPA 3050B	Date Digested	: 07/08/23

		mg/kg				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Total	3630	10.0	2.71		
7440-36-0	Antimony, Total	4.65	5.02	0.382	J	J+
7440-38-2	Arsenic, Total	17.7	1.00	0.209		J+
7440-39-3	Barium, Total	218	1.00	0.175		J-
7440-41-7	Beryllium, Total	0.540	0.502	0.033		
7440-43-9	Cadmium, Total	1.55	1.00	0.098		
7440-70-2	Calcium, Total	4180	10.0	3.52		
7440-47-3	Chromium, Total	60.1	1.00	0.096		J-
7440-48-4	Cobalt, Total	9.32	2.01	0.167		
7440-50-8	Copper, Total	285	1.00	0.259		
7439-89-6	Iron, Total	22100	5.02	0.907		
7439-92-1	Lead, Total	397	5.02	0.269		
7439-95-4	Magnesium, Total	952	10.0	1.55		
7439-96-5	Manganese, Total	111	1.00	0.160		
7440-02-0	Nickel, Total	27.2	2.51	0.243		
7440-09-7	Potassium, Total	299	251	14.5		
7782-49-2	Selenium, Total	1.83	2.01	0.259	J	
7440-22-4	Silver, Total	0.509	0.502	0.284		
7440-23-5	Sodium, Total	164	201	3.16	J	
7440-28-0	Thallium, Total	0.444	2.01	0.316	J	
7440-62-2	Vanadium, Total	15.6	1.00	0.204		
7440-66-6	Zinc, Total	504	5.02	0.294		

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-25	Date Collected	: 06/20/23 12:00
Client ID	: 8B-1WW (6.0-6.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/16/23 19:30
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: TAA
Lab File ID	: WG1803825.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.308g	%Solids	: 77
Digestion Method	: EPA 3050B	Date Digested	: 07/08/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	2850	9.90	2.67	
7440-36-0	Antimony, Total	6.16	4.95	0.376	J+
7440-38-2	Arsenic, Total	17.9	0.990	0.206	J+
7440-39-3	Barium, Total	343	0.990	0.172	J-
7440-41-7	Beryllium, Total	0.190	0.495	0.033	J
7440-43-9	Cadmium, Total	1.17	0.990	0.097	
7440-70-2	Calcium, Total	4560	9.90	3.47	
7440-47-3	Chromium, Total	17.6	0.990	0.095	J-
7440-48-4	Cobalt, Total	2.89	1.98	0.164	
7440-50-8	Copper, Total	178	0.990	0.256	
7439-89-6	Iron, Total	10800	4.95	0.894	
7439-92-1	Lead, Total	2760	4.95	0.265	
7439-95-4	Magnesium, Total	2020	9.90	1.52	
7439-96-5	Manganese, Total	124	0.990	0.157	
7440-02-0	Nickel, Total	9.70	2.48	0.240	
7440-09-7	Potassium, Total	445	248	14.3	
7782-49-2	Selenium, Total	0.740	1.98	0.256	J
7440-22-4	Silver, Total	1.38	0.495	0.280	
7440-23-5	Sodium, Total	133	198	3.12	J
7440-28-0	Thallium, Total	ND	1.98	0.312	U
7440-62-2	Vanadium, Total	13.5	0.990	0.201	
7440-66-6	Zinc, Total	470	4.95	0.290	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-08	Date Collected	: 06/20/23 11:15
Client ID	: 8B-1N (5.0-5.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 10:08
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1797616.pdf	Instrument ID	: NIC3
Sample Amount	: 0.395g	%Solids	: 77
Digestion Method	: EPA 7471B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	1.22	0.083	0.054	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-12	Date Collected	: 06/20/23 10:50
Client ID	: 8B-1E (6.0-6.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 10:11
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1797616.pdf	Instrument ID	: NIC3
Sample Amount	: 0.389g	%Solids	: 82
Digestion Method	: EPA 7471B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	1.24	0.078	0.051	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-13	Date Collected	: 06/20/23 09:55
Client ID	: 8B-1S (1.5-2.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 11:00
Sample Matrix	: SOIL	Dilution Factor	: 10
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1797616.pdf	Instrument ID	: NIC3
Sample Amount	: 0.393g	%Solids	: 90
Digestion Method	: EPA 7471B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	8.29	0.708	0.462	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-14	Date Collected	: 06/20/23 10:00
Client ID	: 8B-1S (4.5-5.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 10:21
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1797616.pdf	Instrument ID	: NIC3
Sample Amount	: 0.392g	%Solids	: 84
Digestion Method	: EPA 7471B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.093	0.076	0.049	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-15	Date Collected	: 06/20/23 10:05
Client ID	: 8B-1S (6.5-7.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 11:03
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1797616.pdf	Instrument ID	: NIC3
Sample Amount	: 0.394g	%Solids	: 83
Digestion Method	: EPA 7471B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	3.55	0.152	0.099	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-19	Date Collected	: 06/20/23 09:35
Client ID	: 8B-1W (1.5-2.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 11:07
Sample Matrix	: SOIL	Dilution Factor	: 10
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1797616.pdf	Instrument ID	: NIC3
Sample Amount	: 0.394g	%Solids	: 88
Digestion Method	: EPA 7471B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	10.5	0.724	0.472	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-20	Date Collected	: 06/20/23 09:40
Client ID	: 8B-1W (4.5-5.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 11:10
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1797616.pdf	Instrument ID	: NIC3
Sample Amount	: 0.391g	%Solids	: 67
Digestion Method	: EPA 7471B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	3.83	0.190	0.124	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-21	Date Collected	: 06/20/23 09:45
Client ID	: 8B-1W (6.5-7.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 10:40
Sample Matrix	: SOIL	Dilution Factor	: 10
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1797616.pdf	Instrument ID	: NIC3
Sample Amount	: 0.397g	%Solids	: 50
Digestion Method	: EPA 7471B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	14.1	1.25	0.815	J

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-22	Date Collected	: 06/20/23 09:45
Client ID	: 8B-1W (6.5-7.0) DUP	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 10:37
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1797616.pdf	Instrument ID	: NIC3
Sample Amount	: 0.387g	%Solids	: 76
Digestion Method	: EPA 7471B	Date Digested	: 06/27/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.946	0.085	0.055	J

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-09	Date Collected	: 06/20/23 12:30
Client ID	: 8B-1NN (1.5-2.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/10/23 13:48
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1801362.csv	Instrument ID	: NIC4
Sample Amount	: 0.393g	%Solids	: 87
Digestion Method	: EPA 7471B	Date Digested	: 07/08/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	1.41	0.073	0.047	J+

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-10	Date Collected	: 06/20/23 12:35
Client ID	: 8B-1NN (4.5-5.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/10/23 14:01
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1801362.csv	Instrument ID	: NIC4
Sample Amount	: 0.398g	%Solids	: 90
Digestion Method	: EPA 7471B	Date Digested	: 07/08/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	2.45	0.070	0.045	J+

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-11	Date Collected	: 06/20/23 12:40
Client ID	: 8B-1NN (6.0-6.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/10/23 14:04
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1801362.csv	Instrument ID	: NIC4
Sample Amount	: 0.395g	%Solids	: 89
Digestion Method	: EPA 7471B	Date Digested	: 07/08/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.583	0.071	0.047	J+

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-16	Date Collected	: 06/20/23 10:20
Client ID	: 8B-1SS (1.5-2.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/10/23 14:14
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1801362.csv	Instrument ID	: NIC4
Sample Amount	: 0.398g	%Solids	: 87
Digestion Method	: EPA 7471B	Date Digested	: 07/08/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.470	0.072	0.047	J+

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-18	Date Collected	: 06/20/23 10:30
Client ID	: 8B-1SS (6.5-7.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/10/23 14:24
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1801362.csv	Instrument ID	: NIC4
Sample Amount	: 0.398g	%Solids	: 86
Digestion Method	: EPA 7471B	Date Digested	: 07/08/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	1.53	0.073	0.048	J+

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-23	Date Collected	: 06/20/23 11:45
Client ID	: 8B-1WW (1.0-1.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/10/23 16:37
Sample Matrix	: SOIL	Dilution Factor	: 10
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1801362.csv	Instrument ID	: NIC4
Sample Amount	: 0.39g	%Solids	: 93
Digestion Method	: EPA 7471B	Date Digested	: 07/08/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	16.4	0.693	0.452	J+

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-24	Date Collected	: 06/20/23 11:50
Client ID	: 8B-1WW (4.5-5.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/10/23 16:47
Sample Matrix	: SOIL	Dilution Factor	: 5
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1801362.csv	Instrument ID	: NIC4
Sample Amount	: 0.388g	%Solids	: 76
Digestion Method	: EPA 7471B	Date Digested	: 07/08/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	5.76	0.426	0.278	J+

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-25	Date Collected	: 06/20/23 12:00
Client ID	: 8B-1WW (6.0-6.5)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/10/23 14:37
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: DMB
Lab File ID	: WG1801362.csv	Instrument ID	: NIC4
Sample Amount	: 0.398g	%Solids	: 77
Digestion Method	: EPA 7471B	Date Digested	: 07/08/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	1.14	0.081	0.053	J+

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-17	Date Collected	: 06/20/23 10:25
Client ID	: 8B-1SS (4.5-5.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/13/23 22:40
Sample Matrix	: SOIL	Dilution Factor	: 25
Analytical Method	: 1,7471B	Analyst	: GMG
Lab File ID	: WG1802682.pdf	Instrument ID	: NIC1
Sample Amount	: 0.384g	%Solids	: 75
Digestion Method	: EPA 7471B	Date Digested	: 07/13/23

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	30.3	2.18	1.42	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-20	Date Collected	: 06/20/23 09:40
Client ID	: 8B-1W (4.5-5.0)	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/12/23 09:22
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7470A	Analyst	: MJR
Lab File ID	: WG1802178.pdf	Instrument ID	: NIC1
Sample Amount	: 5ml	%Solids	: 67
Digestion Method	: EPA 7470A	Date Digested	: 07/11/23
		Date Extracted	: 07/10/23

			mg/l		
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, TCLP	ND	0.0010	0.0005	U

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: WG1801962-1	Date Collected	: NA
Client ID	: WG1801962-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 07/12/23 09:05
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7470A	Analyst	: MJR
Lab File ID	: WG1802178.pdf	Instrument ID	: NIC1
Sample Amount	: 5ml	%Solids	: NA
Digestion Method	: EPA 7470A	Date Digested	: 07/11/23
		Date Extracted	: 07/10/23

			mg/l		
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, TCLP	0.0012	0.0010	0.0005	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-01	Date Collected	: 06/20/23 12:00
Client ID	: 8B-1N-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 16:54
Sample Matrix	: WATER	Dilution Factor	: 5
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1797570.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/26/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-70-2	Calcium, Total	600.	0.500	0.197	J

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-01	Date Collected	: 06/20/23 12:00
Client ID	: 8B-1N-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 16:28
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1797570.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/26/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	3.79	0.0100	0.00327	
7440-36-0	Antimony, Total	0.06677	0.00400	0.00042	
7440-38-2	Arsenic, Total	0.02465	0.00050	0.00016	
7440-39-3	Barium, Total	0.3991	0.00050	0.00017	
7440-41-7	Beryllium, Total	0.00024	0.00050	0.00010	J
7440-43-9	Cadmium, Total	0.00058	0.00020	0.00005	
7440-47-3	Chromium, Total	0.1117	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00648	0.00050	0.00016	
7440-50-8	Copper, Total	0.2196	0.00100	0.00038	
7439-89-6	Iron, Total	21.4	0.0500	0.0191	
7439-92-1	Lead, Total	0.4225	0.00100	0.00034	
7439-95-4	Magnesium, Total	18.8	0.0700	0.0242	J
7439-96-5	Manganese, Total	0.8286	0.00100	0.00044	
7440-02-0	Nickel, Total	0.09396	0.00200	0.00055	
7440-09-7	Potassium, Total	16.3	0.100	0.0309	J
7782-49-2	Selenium, Total	0.00400	0.00500	0.00173	J
7440-22-4	Silver, Total	0.00146	0.00040	0.00016	
7440-23-5	Sodium, Total	51.2	0.100	0.0293	J
7440-28-0	Thallium, Total	0.00020	0.00100	0.00014	J
7440-62-2	Vanadium, Total	0.01825	0.00500	0.00157	
7440-66-6	Zinc, Total	0.4463	0.01000	0.00341	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-03	Date Collected	: 06/20/23 13:00
Client ID	: 8B-1E-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 16:33
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1797570.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/26/23

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Total	5.24	0.0100	0.00327		
7440-36-0	Antimony, Total	0.05390	0.00400	0.00042		
7440-38-2	Arsenic, Total	0.02858	0.00050	0.00016		
7440-39-3	Barium, Total	0.4205	0.00050	0.00017		
7440-41-7	Beryllium, Total	0.00025	0.00050	0.00010	J	
7440-43-9	Cadmium, Total	0.00040	0.00020	0.00005		
7440-70-2	Calcium, Total	332.	0.100	0.0394		J
7440-47-3	Chromium, Total	0.05534	0.00100	0.00017		
7440-48-4	Cobalt, Total	0.00458	0.00050	0.00016		
7440-50-8	Copper, Total	0.1387	0.00100	0.00038		
7439-89-6	Iron, Total	12.8	0.0500	0.0191		
7439-92-1	Lead, Total	0.3998	0.00100	0.00034		
7439-95-4	Magnesium, Total	14.8	0.0700	0.0242		J
7439-96-5	Manganese, Total	0.9415	0.00100	0.00044		
7440-02-0	Nickel, Total	0.02465	0.00200	0.00055		
7440-09-7	Potassium, Total	23.4	0.100	0.0309		J
7782-49-2	Selenium, Total	0.00473	0.00500	0.00173	J	
7440-22-4	Silver, Total	0.00075	0.00040	0.00016		
7440-23-5	Sodium, Total	77.4	0.100	0.0293		J
7440-28-0	Thallium, Total	0.00021	0.00100	0.00014	J	
7440-62-2	Vanadium, Total	0.01793	0.00500	0.00157		
7440-66-6	Zinc, Total	0.1732	0.01000	0.00341		

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-04	Date Collected	: 06/20/23 11:00
Client ID	: 8B-1S-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 20:22
Sample Matrix	: WATER	Dilution Factor	: 10
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1797570.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/26/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-66-6	Zinc, Total	1.866	0.1000	0.03410	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-04	Date Collected	: 06/20/23 11:00
Client ID	: 8B-1S-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 16:37
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1797570.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/26/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	8.36	0.0100	0.00327	J
7440-36-0	Antimony, Total	0.1181	0.00400	0.00042	
7440-38-2	Arsenic, Total	0.04005	0.00050	0.00016	
7440-39-3	Barium, Total	0.5630	0.00050	0.00017	
7440-41-7	Beryllium, Total	0.00055	0.00050	0.00010	
7440-43-9	Cadmium, Total	0.00416	0.00020	0.00005	
7440-70-2	Calcium, Total	75.7	0.100	0.0394	J
7440-47-3	Chromium, Total	0.3601	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.01256	0.00050	0.00016	
7440-50-8	Copper, Total	0.9357	0.00100	0.00038	
7439-89-6	Iron, Total	55.3	0.0500	0.0191	
7439-92-1	Lead, Total	0.6933	0.00100	0.00034	
7439-95-4	Magnesium, Total	8.58	0.0700	0.0242	J
7439-96-5	Manganese, Total	1.088	0.00100	0.00044	
7440-02-0	Nickel, Total	0.03319	0.00200	0.00055	
7440-09-7	Potassium, Total	18.4	0.100	0.0309	J
7782-49-2	Selenium, Total	0.00772	0.00500	0.00173	
7440-22-4	Silver, Total	0.00071	0.00040	0.00016	
7440-23-5	Sodium, Total	28.1	0.100	0.0293	J
7440-28-0	Thallium, Total	0.00033	0.00100	0.00014	J
7440-62-2	Vanadium, Total	0.03615	0.00500	0.00157	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-06	Date Collected	: 06/20/23 09:15
Client ID	: 8B-1W-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 16:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1797570.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/26/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	1.21	0.0100	0.00327	
7440-36-0	Antimony, Total	2.134	0.00400	0.00042	
7440-38-2	Arsenic, Total	0.01964	0.00050	0.00016	
7440-39-3	Barium, Total	0.4229	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	0.00041	0.00020	0.00005	
7440-47-3	Chromium, Total	0.01682	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00178	0.00050	0.00016	
7440-50-8	Copper, Total	0.09192	0.00100	0.00038	
7439-89-6	Iron, Total	10.8	0.0500	0.0191	
7439-92-1	Lead, Total	0.5089	0.00100	0.00034	
7439-95-4	Magnesium, Total	20.1	0.0700	0.0242	J
7439-96-5	Manganese, Total	0.8157	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00614	0.00200	0.00055	
7440-09-7	Potassium, Total	16.5	0.100	0.0309	J
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	48.8	0.100	0.0293	J
7440-28-0	Thallium, Total	0.00029	0.00100	0.00014	J
7440-62-2	Vanadium, Total	0.00592	0.00500	0.00157	
7440-66-6	Zinc, Total	0.1562	0.01000	0.00341	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-06	Date Collected	: 06/20/23 09:15
Client ID	: 8B-1W-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/29/23 17:00
Sample Matrix	: WATER	Dilution Factor	: 5
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1797570.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/26/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-70-2	Calcium, Total	463.	0.500	0.197	J

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-01	Date Collected	: 06/20/23 12:00
Client ID	: 8B-1N-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/30/23 07:32
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1798115.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/27/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	0.0173	0.0100	0.00327	
7440-36-0	Antimony, Dissolved	0.04901	0.00400	0.00042	
7440-38-2	Arsenic, Dissolved	0.01360	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.1843	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-47-3	Chromium, Dissolved	0.00577	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	0.00058	0.00050	0.00016	
7440-50-8	Copper, Dissolved	0.00093	0.00100	0.00038	J
7439-89-6	Iron, Dissolved	0.310	0.0500	0.0191	
7439-92-1	Lead, Dissolved	0.00091	0.00100	0.00034	J
7439-95-4	Magnesium, Dissolved	16.5	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.5790	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00737	0.00200	0.00055	
7440-09-7	Potassium, Dissolved	14.1	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	51.2	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	0.00157	0.00500	0.00157	J
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-01	Date Collected	: 06/20/23 12:00
Client ID	: 8B-1N-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/30/23 08:10
Sample Matrix	: WATER	Dilution Factor	: 5
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1798115.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/27/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-70-2	Calcium, Dissolved	450.	0.500	0.197	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-03	Date Collected	: 06/20/23 13:00
Client ID	: 8B-1E-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/30/23 08:15
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1798115.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/27/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	0.0392	0.0100	0.00327	
7440-36-0	Antimony, Dissolved	0.03961	0.00400	0.00042	
7440-38-2	Arsenic, Dissolved	0.01112	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.2128	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	269.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00230	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	0.00098	0.00050	0.00016	
7440-50-8	Copper, Dissolved	0.00108	0.00100	0.00038	
7439-89-6	Iron, Dissolved	0.116	0.0500	0.0191	
7439-92-1	Lead, Dissolved	0.00387	0.00100	0.00034	
7439-95-4	Magnesium, Dissolved	13.6	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.7759	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00941	0.00200	0.00055	
7440-09-7	Potassium, Dissolved	23.5	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	95.2	0.100	0.0293	J
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	0.00252	0.00500	0.00157	J
7440-66-6	Zinc, Dissolved	0.00381	0.01000	0.00341	J

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-04	Date Collected	: 06/20/23 11:00
Client ID	: 8B-1S-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/30/23 08:19
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1798115.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/27/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	0.0162	0.0100	0.00327	
7440-36-0	Antimony, Dissolved	0.03616	0.00400	0.00042	
7440-38-2	Arsenic, Dissolved	0.00352	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.06875	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	64.6	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00061	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00083	0.00050	0.00016	
7440-50-8	Copper, Dissolved	0.00093	0.00100	0.00038	J
7439-89-6	Iron, Dissolved	0.0920	0.0500	0.0191	
7439-92-1	Lead, Dissolved	0.00065	0.00100	0.00034	J
7439-95-4	Magnesium, Dissolved	6.27	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.4841	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00495	0.00200	0.00055	
7440-09-7	Potassium, Dissolved	17.5	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	29.1	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	0.00806	0.01000	0.00341	J

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-06	Date Collected	: 06/20/23 09:15
Client ID	: 8B-1W-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/30/23 08:24
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: EJF
Lab File ID	: WG1798115.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/27/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	0.0167	0.0100	0.00327	
7440-36-0	Antimony, Dissolved	0.1757	0.00400	0.00042	
7440-38-2	Arsenic, Dissolved	0.01227	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.2432	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	448.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00680	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	0.00021	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00055	0.00100	0.00038	J
7439-89-6	Iron, Dissolved	2.14	0.0500	0.0191	
7439-92-1	Lead, Dissolved	0.00089	0.00100	0.00034	J
7439-95-4	Magnesium, Dissolved	21.1	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.8782	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00247	0.00200	0.00055	
7440-09-7	Potassium, Dissolved	16.7	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	52.7	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-02	Date Collected	: 06/20/23 14:00
Client ID	: 8B-1NN-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/18/23 17:45
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: WKP
Lab File ID	: WG1804397.pdf	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 07/10/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	0.115	0.0100	0.00327	
7440-36-0	Antimony, Dissolved	0.1263	0.00400	0.00042	
7440-38-2	Arsenic, Dissolved	0.01061	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.1650	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	402.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00098	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00044	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00687	0.00100	0.00038	
7439-89-6	Iron, Dissolved	0.247	0.0500	0.0191	
7439-92-1	Lead, Dissolved	0.01050	0.00100	0.00034	
7439-95-4	Magnesium, Dissolved	13.4	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.2902	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00355	0.00200	0.00055	
7440-09-7	Potassium, Dissolved	19.1	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	43.9	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	0.00620	0.00500	0.00157	
7440-66-6	Zinc, Dissolved	0.00563	0.01000	0.00341	J

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-05	Date Collected	: 06/20/23 10:00
Client ID	: 8B-1SS-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/18/23 17:50
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: WKP
Lab File ID	: WG1804397.pdf	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 07/10/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	0.0127	0.0100	0.00327	
7440-36-0	Antimony, Dissolved	0.07037	0.00400	0.00042	
7440-38-2	Arsenic, Dissolved	0.00506	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.09087	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	103.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00035	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00052	0.00050	0.00016	
7440-50-8	Copper, Dissolved	0.00040	0.00100	0.00038	J
7439-89-6	Iron, Dissolved	0.0676	0.0500	0.0191	
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	8.89	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.6527	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00460	0.00200	0.00055	
7440-09-7	Potassium, Dissolved	24.3	0.100	0.0309	J
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	38.0	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-07	Date Collected	: 06/20/23 13:30
Client ID	: 8B-1WW-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/18/23 18:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: WKP
Lab File ID	: WG1804397.pdf	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 07/10/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	0.00838	0.0100	0.00327	J
7440-36-0	Antimony, Dissolved	0.00428	0.00400	0.00042	
7440-38-2	Arsenic, Dissolved	0.1243	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.2627	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	264.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00178	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	0.00019	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00073	0.00100	0.00038	J
7439-89-6	Iron, Dissolved	0.0896	0.0500	0.0191	
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	11.2	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.5799	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00190	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	21.4	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	37.4	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-02	Date Collected	: 06/20/23 14:00
Client ID	: 8B-1NN-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/18/23 16:10
Sample Matrix	: WATER	Dilution Factor	: 5
Analytical Method	: 1,6020B	Analyst	: WKP
Lab File ID	: WG1804397.pdf	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 07/10/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	37.0	0.0500	0.0164	
7440-36-0	Antimony, Total	0.2301	0.02000	0.00214	
7440-38-2	Arsenic, Total	0.1597	0.00250	0.00082	
7440-39-3	Barium, Total	1.727	0.00250	0.00086	
7440-41-7	Beryllium, Total	0.00287	0.00250	0.00053	
7440-43-9	Cadmium, Total	0.00397	0.00100	0.00029	
7440-70-2	Calcium, Total	571.	0.500	0.197	J
7440-47-3	Chromium, Total	0.1440	0.00500	0.00089	
7440-48-4	Cobalt, Total	0.03714	0.00250	0.00081	
7440-50-8	Copper, Total	3.076	0.00500	0.00192	
7439-89-6	Iron, Total	164.	0.250	0.0955	
7439-92-1	Lead, Total	3.593	0.00500	0.00171	
7439-95-4	Magnesium, Total	29.8	0.350	0.121	J-
7439-96-5	Manganese, Total	2.815	0.00500	0.00220	
7440-02-0	Nickel, Total	0.1019	0.01000	0.00278	
7440-09-7	Potassium, Total	19.9	0.500	0.154	J
7782-49-2	Selenium, Total	ND	0.0250	0.00865	U
7440-22-4	Silver, Total	ND	0.00200	0.00081	U
7440-23-5	Sodium, Total	42.8	0.500	0.146	J
7440-28-0	Thallium, Total	0.00231	0.00500	0.00071	J
7440-62-2	Vanadium, Total	0.1307	0.02500	0.00785	
7440-66-6	Zinc, Total	1.831	0.05000	0.01705	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-05	Date Collected	: 06/20/23 10:00
Client ID	: 8B-1SS-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/18/23 16:32
Sample Matrix	: WATER	Dilution Factor	: 10
Analytical Method	: 1,6020B	Analyst	: WKP
Lab File ID	: WG1804397.pdf	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 07/10/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7440-36-0	Antimony, Total	0.4123	0.04000	0.00429	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-05	Date Collected	: 06/20/23 10:00
Client ID	: 8B-1SS-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/18/23 16:15
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: WKP
Lab File ID	: WG1804397.pdf	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 07/10/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	6.29	0.0100	0.00327	
7440-38-2	Arsenic, Total	0.03312	0.00050	0.00016	
7440-39-3	Barium, Total	0.4913	0.00050	0.00017	
7440-41-7	Beryllium, Total	0.00048	0.00050	0.00010	J
7440-43-9	Cadmium, Total	0.00106	0.00020	0.00005	
7440-70-2	Calcium, Total	94.0	0.100	0.0394	J
7440-47-3	Chromium, Total	0.1951	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00700	0.00050	0.00016	
7440-50-8	Copper, Total	0.8158	0.00100	0.00038	
7439-89-6	Iron, Total	41.6	0.0500	0.0191	
7439-92-1	Lead, Total	0.7143	0.00100	0.00034	
7439-95-4	Magnesium, Total	10.5	0.0700	0.0242	J-
7439-96-5	Manganese, Total	0.9946	0.00100	0.00044	
7440-02-0	Nickel, Total	0.02605	0.00200	0.00055	
7440-09-7	Potassium, Total	21.0	0.100	0.0309	J
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	0.00055	0.00040	0.00016	
7440-23-5	Sodium, Total	36.0	0.100	0.0293	J
7440-28-0	Thallium, Total	0.00028	0.00100	0.00014	J
7440-62-2	Vanadium, Total	0.02838	0.00500	0.00157	
7440-66-6	Zinc, Total	0.5551	0.01000	0.00341	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-07	Date Collected	: 06/20/23 13:30
Client ID	: 8B-1WW-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/18/23 16:19
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: WKP
Lab File ID	: WG1804397.pdf	Instrument ID	: ICPMSRQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 07/10/23

		mg/l				
CAS NO.	Parameter	Results	RL	MDL	Qualifier	
7429-90-5	Aluminum, Total	0.376	0.0100	0.00327		
7440-36-0	Antimony, Total	0.00582	0.00400	0.00042		
7440-38-2	Arsenic, Total	0.1321	0.00050	0.00016		
7440-39-3	Barium, Total	0.3184	0.00050	0.00017		
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U	
7440-43-9	Cadmium, Total	0.00006	0.00020	0.00005	J	
7440-70-2	Calcium, Total	322.	0.100	0.0394		J
7440-47-3	Chromium, Total	0.01391	0.00100	0.00017		
7440-48-4	Cobalt, Total	0.00051	0.00050	0.00016		
7440-50-8	Copper, Total	0.01785	0.00100	0.00038		
7439-89-6	Iron, Total	3.56	0.0500	0.0191		
7439-92-1	Lead, Total	0.05407	0.00100	0.00034		
7439-95-4	Magnesium, Total	11.6	0.0700	0.0242		J-
7439-96-5	Manganese, Total	0.6437	0.00100	0.00044		
7440-02-0	Nickel, Total	0.00302	0.00200	0.00055		
7440-09-7	Potassium, Total	21.4	0.100	0.0309		J
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U	
7440-22-4	Silver, Total	ND	0.00040	0.00016	U	
7440-23-5	Sodium, Total	38.7	0.100	0.0293		J
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U	
7440-62-2	Vanadium, Total	0.00170	0.00500	0.00157	J	
7440-66-6	Zinc, Total	0.04376	0.01000	0.00341		

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-01	Date Collected	: 06/20/23 12:00
Client ID	: 8B-1N-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/28/23 17:09
Sample Matrix	: WATER	Dilution Factor	: 20
Analytical Method	: 1,7470A	Analyst	: DMB
Lab File ID	: WG1797010.pdf	Instrument ID	: NIC2
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 06/27/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.1222	0.00400	0.00183	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-03	Date Collected	: 06/20/23 13:00
Client ID	: 8B-1E-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/28/23 16:17
Sample Matrix	: WATER	Dilution Factor	: 5
Analytical Method	: 1,7470A	Analyst	: DMB
Lab File ID	: WG1797010.pdf	Instrument ID	: NIC2
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 06/27/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.01565	0.00100	0.00045	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-04	Date Collected	: 06/20/23 11:00
Client ID	: 8B-1S-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/28/23 16:29
Sample Matrix	: WATER	Dilution Factor	: 2
Analytical Method	: 1,7470A	Analyst	: DMB
Lab File ID	: WG1797010.pdf	Instrument ID	: NIC2
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 06/27/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.01225	0.00040	0.00018	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-06	Date Collected	: 06/20/23 09:15
Client ID	: 8B-1W-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/28/23 17:12
Sample Matrix	: WATER	Dilution Factor	: 20
Analytical Method	: 1,7470A	Analyst	: DMB
Lab File ID	: WG1797010.pdf	Instrument ID	: NIC2
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 06/27/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.03980	0.00400	0.00183	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-01	Date Collected	: 06/20/23 12:00
Client ID	: 8B-1N-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/28/23 16:36
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,7470A	Analyst	: DMB
Lab File ID	: WG1797012.pdf	Instrument ID	: NIC3
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 06/27/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-03	Date Collected	: 06/20/23 13:00
Client ID	: 8B-1E-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/28/23 16:39
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,7470A	Analyst	: DMB
Lab File ID	: WG1797012.pdf	Instrument ID	: NIC3
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 06/27/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-04	Date Collected	: 06/20/23 11:00
Client ID	: 8B-1S-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/28/23 16:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,7470A	Analyst	: DMB
Lab File ID	: WG1797012.pdf	Instrument ID	: NIC3
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 06/27/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-06	Date Collected	: 06/20/23 09:15
Client ID	: 8B-1W-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 06/28/23 16:46
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,7470A	Analyst	: DMB
Lab File ID	: WG1797012.pdf	Instrument ID	: NIC3
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 06/27/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-02	Date Collected	: 06/20/23 14:00
Client ID	: 8B-1NN-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/11/23 18:49
Sample Matrix	: WATER	Dilution Factor	: 1000
Analytical Method	: 1,7470A	Analyst	: DMB
Lab File ID	: WG1801670.pdf	Instrument ID	: NIC1
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 07/10/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	3.283	0.2000	0.09150	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-05	Date Collected	: 06/20/23 10:00
Client ID	: 8B-1SS-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/11/23 18:28
Sample Matrix	: WATER	Dilution Factor	: 2
Analytical Method	: 1,7470A	Analyst	: DMB
Lab File ID	: WG1801670.pdf	Instrument ID	: NIC1
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 07/10/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.01220	0.00040	0.00018	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-07	Date Collected	: 06/20/23 13:30
Client ID	: 8B-1WW-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/11/23 17:08
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,7470A	Analyst	: DMB
Lab File ID	: WG1801670.pdf	Instrument ID	: NIC1
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 07/10/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.00357	0.00020	0.00009	

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-02	Date Collected	: 06/20/23 14:00
Client ID	: 8B-1NN-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/12/23 18:43
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,7470A	Analyst	: MJR
Lab File ID	: WG1802175.pdf	Instrument ID	: NIC2
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 07/10/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Dissolved	0.00065	0.00020	0.00009	J

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-05	Date Collected	: 06/20/23 10:00
Client ID	: 8B-1SS-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/12/23 18:13
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,7470A	Analyst	: MJR
Lab File ID	: WG1802175.pdf	Instrument ID	: NIC2
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 07/10/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: L2335541-07	Date Collected	: 06/20/23 13:30
Client ID	: 8B-1WW-GW	Date Received	: 06/21/23
Sample Location	: 140 STEWART AVE., BROOKLYN, NY	Date Analyzed	: 07/12/23 18:16
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,7470A	Analyst	: MJR
Lab File ID	: WG1802175.pdf	Instrument ID	: NIC2
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 7470A	Date Digested	: 07/10/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

VOC Data Section

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of Method 8260C Volatiles Data
for Alpha Analytical, SDG Number: L2335541

31 Soil Samples
Collected June 20, 2023

Prepared by: Donald Anné
August 16, 2023

Holding Times: The samples were analyzed within USEPA holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The average RRFs for acetone, 2-butanone, and 4-methyl-2-pentanone were below the method minimums, but not below 0.010 for VOA104 on 04-07-23. The average RRFs for acetone, 2-butanone, 4-methyl-2-pentanone, and 1,1,2-trichloroethane were below the method minimums, but not below 0.010 for VOA126 on 05-27-23. No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no average RRF is less than 0.010.

The average RRFs for target compounds were above the allowable minimum (0.001 for 1,4-dioxane, 0.010 for all other compounds) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The RRFs for 4-methyl-2-pentanone and 1,1,2-trichloroethane were below the method minimums, but not below 0.010 on 06-24-23 (V31230624A01). The RRF for 2-butanone was below the method minimum, but not below 0.010 on 06-26-23 (V04230626A03). The RRFs for 4-methyl-2-pentanone and 1,1,2-trichloroethane were below the method minimums, but not below 0.010 on 06-27-23 (V31230627N01). The RRFs for 2-butanone, 4-methyl-2-pentanone, and 1,1,2-trichloroethane were below the method minimums, but not below 0.010 on 07-03-23 (V26230703A01). The RRFs for 4-methyl-2-pentanone and 1,1,2-trichloroethane were below the method minimums, but not below 0.010 on 06-28-23 (V31230628A01). The %Ds for chloromethane, 1,1-dichloropene, 1,2-dibromomethane, 1,1,2,2-tetrachloroethane, and 1,2,3-trichloropropane were above the method maximum on 06-24-23 (V31230624A01). The %Ds for 10 compounds (highlighted yellow on attached Form 7) were above the allowable maximum (20%) on 06-26-23 (V04230626A03). The %Ds for dichlorodifluoromethane, 1,2-dibromomethane, 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane, and 1,2-dibromo-3-chloropropane were above the method maximum on 06-27-23 (V31230627N01). The %Ds for 12 compounds (highlighted yellow on attached Form 7) were above the method

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maximum on 06-28-23 (V31230628A01). The %Ds for bromochloromethane, carbon tetrachloride, bromoform, and 1,2-dibromo-3-chloropropane were above the method maximum on 07-03-23 (V26230703A01). No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no RRF is less than 0.010.

The RRFs for target compounds were above the allowable minimum (0.001 for 1,4-dioxane, 0.010 for all other compounds), as required.

The %Ds for chloromethane, 1,1-dichloropene, 1,2-dibromomethane, 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane, 1,2,4,5-tetramethylbenzene, and naphthalene were above the allowable maximum (20%) on 06-24-23 (V31230624A01). The %Ds for 10 compounds (highlighted yellow on attached Form 7) and acrylonitrile were above the allowable maximum (20%) on 06-26-23 (V04230626A03). The %Ds for dichlorodifluoromethane, 1,2-dibromomethane, 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane, 1,2,4,5-tetramethylbenzene, 1,2-dibromo-3-chloropropane, and naphthalene were above the allowable maximum (20%) on 06-24-23 (V31230627N01). The %Ds for 12 compounds (highlighted yellow on attached Form 7), 1,2,4,5-tetramethylbenzene, and naphthalene were above the allowable maximum (20%) on 06-28-23 (V31230628A01). The %Ds for trans-1,4-dichloro-2-butene and n-butylbenzene were above the allowable maximum (20%) on 07-01-23 (V10230701C01). The %Ds for 2,2-dichloropropane, bromochloromethane, carbon tetrachloride, bromoform, 1,2-dibromo-3-chloropropane, and 1,2,3-trichlorobenzene were above the allowable maximum (20%) on 07-03-23 (V26230703A01). Positive results for these compounds should be considered estimated (J) in associated samples.

Blanks: Method blank WG1799615-5BLANK contained a trace of 1,2,3-trichlorobenzene (0.46 ug/kg). Method blank WG1799631-5BLANK contained a trace of bromomethane (2.0 ug/kg). Method blank WG1799762-5BLANK contained a trace of bromomethane (99 ug/kg). Positive results for these compounds that are less than 5 times the highest blank level should be reported as not detected (U) in associated samples.

Surrogate Recovery: One of four surrogate recoveries for samples 7-B1W (1.5-2), 7-B1E (5.5-6), and 7-B1S (5.5-6) were above control limits. Two of four surrogate recoveries for samples 7-B1W (1.5-2)R2 and 7-B1S (5.5-6)R1 were above control limits. Positive results for these samples should be considered estimated, biased high (J+).

Internal Standard Area Summary: The internal standard retention times were within control limits. One of three internal standard area (chlorobenzene-d5) for sample 7-B1W (1.5-2) was below control limits, but not below 25%. Positive results for sample 7-B1W (1.5-2) should be considered estimated, biased high (J+) and “not detected” results estimated (UJ).

One of three internal standard area (1,4-dichlorobenzene-d4) for sample 7-B1W (1.5-2) was below control limits and below 25%. Positive results for sample 7-B1W (1.5-2) should be considered estimated, biased high (J+) and "not detected" results rejected, unusable (R).

Laboratory Control Sample: The relative percent differences (RPDs) for target compounds were below the allowable maximum and the percent recoveries were within QC limits for soil samples WG1799631-3/4 and WG1799762-3/4.

The RPDs for target compounds were below the allowable maximum, but 2 of 2 %Rs for chloromethane were above QC limits for soil samples WG1797137-3/4 and WG1797141-3/4. The RPDs for target compounds were below the allowable maximum, but 2 of 2 %Rs for chloromethane, vinyl chloride, and dichlorodifluoromethane were above QC limits for soil samples WG1797314-3/4. Positive results for these compounds should be considered estimated, biased high (J+) in associated soil samples.

The RPDs for target compounds were below the allowable maximum, but 2 of 2 %Rs for 1,1,2,2-tetrachloroethane and 1,2,4,5-tetramethylbenzene and 1 of 2 %Rs for naphthalene were below QC limits, but not below 10% for soil samples WG1797169-3/4 and WG1797173-3/4. The RPDs for target compounds were below the allowable maximum, but 1 of 2 %Rs for 1,1,2,2-tetrachloroethane and 1,2,4,5-tetramethylbenzene were below QC limits, but not below 10% for soil samples WG1797202-3/4 and WG1797206-3/4. The RPDs for target compounds were below the allowable maximum, but 1 of 2 %Rs for vinyl acetate were below QC limits, but not below 10% for soil samples WG1799615-3/4 and WG1799618-3/4. Positive results for bromomethane should be considered estimated, biased low (J-) and "not detected' results estimated (UJ) in associated soil samples.

Compound ID: Checked compounds and surrogates were within GC/MS quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

The results for tetrachloroethene and cis-1,2-dichloroethene in sample 7-B1W (1.5-2) RE were quantitated by extrapolating data above the highest calibration standard and marked 'E' by the laboratory. The results for tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene in sample 7-B1W (1.5-2) RE2 were quantitated by extrapolating data above the highest calibration standard and marked 'E' by the laboratory. The results for tetrachloroethene in samples 7-B1W (4.5-5), 7-B1WW (1-1.5), 10-B6N (1.5-2), and 10-B6N (4.5-5) were quantitated by extrapolating data above the highest calibration standard and marked 'E' by the laboratory. The results that are flagged as 'E' in the samples should be considered estimated (J).

Surrogate Recovery Summary
Form 2
Volatiles

Client: Partner Engineering & Science, Inc.
Project Name: AVANT GARDNER

Lab Number: L2335541
Project Number: ES22-387153
Matrix: Soil

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
7-B1W (1.5-2) (L2335541-26)	102	117	148*	98	1
7-B1W (1.5-2) (L2335541-26R1)	126	95	102	120	0
7-B1W (1.5-2) (L2335541-26R2)	102	135*	157*	100	2
7-B1W (4.5-5) (L2335541-27D2) 7-	97	95	97	96	0
B1W (4.5-5) (L2335541-27D) 7-	100	94	98	99	0
B1W (6.5-7) (L2335541-28)	108	98	101	106	0
7-B1WW (1-1.5) (L2335541-29D) 7-	107	99	98	99	0
B1WW (1-1.5) (L2335541-29D2) 7-	93	104	115	88	0
B1WW (4-4.5) (L2335541-30) 7-	94	103	116	82	0
B1WW (4.5-5) (L2335541-31) 7-	95	105	120	88	0
B1E (1.5-2) (L2335541-32)	123	96	117	111	0
7-B1E (4-4.5) (L2335541-33)	112	92	96	107	0
7-B1E (5.5-6) (L2335541-34)	129	93	138*	121	1
7-B1N (1.5-2) (L2335541-35)	120	96	114	113	0
7-B1N (4-4.5) (L2335541-36)	108	93	103	102	0
7-B1S (1.5-2) (L2335541-40)	126	98	116	106	0
7-B1S (4-4.5) (L2335541-41)	117	94	100	107	0
7-B1S (5.5-6) (L2335541-42)	132*	93	110	124	1
7-B1S (5.5-6) (L2335541-42R1)	140*	91	107	134*	2
7-B1SS (5-5.5) (L2335541-44) 10-	94	104	111	88	0
B6W (1.5-2) (L2335541-45) 10-B6W	118	101	119	114	0
(4.5-5) (L2335541-46) 10-B6W	105	94	97	101	0
(7.5-8) (L2335541-47) 10-B6WW	110	100	111	111	0
(4.5-5) (L2335541-49) 10-B6WW	97	105	112	89	0
(9.5-10) (L2335541-50) 10-B6N	109	99	100	104	0
(1.5-2) (L2335541-51) 10-B6N	96	104	103	95	0
(1.5-2) (L2335541-51) 10-B6N	124	93	97	117	0
(4.5-5) (L2335541-52)	96	101	95	93	0

QC LIMITS
(70-130) DCA = 1,2-DICHLOROETHANE-D4
(70-130) TOL = TOLUENE-D8
(70-130) BFB = 4-BROMOFLUOROBENZENE
(70-130) DBFM = DIBROMOFLUOROMETHANE

* Values outside of QC limits

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1797137-3 Analysis Date : 06/26/23 11:31 File ID : V04230626A03
LCSD Sample ID : WG1797137-4 Analysis Date : 06/26/23 11:56 File ID : V04230626A04

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	40	35	88	40	36	89	1	70-130	30
1,1-Dichloroethane	40	50	124	40	50	126	2	70-130	30
Chloroform	40	37	92	40	37	92	0	70-130	30
Carbon tetrachloride	40	37	92	40	38	94	2	70-130	30
1,2-Dichloropropane	40	49	121	40	50	125	3	70-130	30
Dibromochloromethane	40	37	91	40	37	92	1	70-130	30
1,1,2-Trichloroethane	40	35	88	40	36	90	2	70-130	30
Tetrachloroethene	40	41	102	40	41	103	1	70-130	30
Chlorobenzene	40	38	94	40	38	95	1	70-130	30
Trichlorofluoromethane	40	30	76	40	32	80	5	70-139	30
1,2-Dichloroethane	40	41	102	40	42	105	3	70-130	30
1,1,1-Trichloroethane	40	39	97	40	40	99	2	70-130	30
Bromodichloromethane	40	36	90	40	37	92	2	70-130	30
trans-1,3-Dichloropropene	40	37	92	40	37	92	0	70-130	30
cis-1,3-Dichloropropene	40	38	95	40	39	97	2	70-130	30
1,1-Dichloropropene	40	41	102	40	41	103	1	70-130	30
Bromoform	40	34	85	40	35	88	3	70-130	30
1,1,2,2-Tetrachloroethane	40	31	78	40	32	81	4	70-130	30
Benzene	40	38	96	40	39	98	2	70-130	30
Toluene	40	37	93	40	38	95	2	70-130	30
Ethylbenzene	40	38	96	40	39	98	2	70-130	30
Chloromethane	40	54	135 Q	40	53	133 Q	1	52-130	30
Bromomethane	40	25	62	40	24	59	5	57-147	30
Vinyl chloride	40	32	80	40	31	78	3	67-130	30
Chloroethane	40	24	60	40	24	59	2	50-151	30
1,1-Dichloroethene	40	39	97	40	39	97	0	65-135	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1797137-3 Analysis Date : 06/26/23 11:31 File ID : V04230626A03
LCSD Sample ID : WG1797137-4 Analysis Date : 06/26/23 11:56 File ID : V04230626A04

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
trans-1,2-Dichloroethene	40	40	99	40	40	99	0	70-130	30
Trichloroethene	40	39	99	40	41	102	3	70-130	30
1,2-Dichlorobenzene	40	37	92	40	39	97	5	70-130	30
1,3-Dichlorobenzene	40	38	94	40	39	98	4	70-130	30
1,4-Dichlorobenzene	40	37	92	40	38	94	2	70-130	30
Methyl tert butyl ether	40	36	91	40	37	94	3	66-130	30
p/m-Xylene	80	80	100	80	81	101	1	70-130	30
o-Xylene	80	79	98	80	80	99	1	70-130	30
cis-1,2-Dichloroethene	40	38	96	40	39	98	2	70-130	30
Dibromomethane	40	33	81	40	34	84	4	70-130	30
Styrene	80	79	99	80	79	99	0	70-130	30
Dichlorodifluoromethane	40	22	56	40	22	56	0	30-146	30
Acetone	40	36	89	40	36	90	1	54-140	30
Carbon disulfide	40	37	92	40	36	91	1	59-130	30
2-Butanone	40	42	105	40	39	97	8	70-130	30
Vinyl acetate	40	33	83	40	35	87	5	70-130	30
4-Methyl-2-pentanone	40	51	128	40	52	129	1	70-130	30
1,2,3-Trichloropropane	40	31	78	40	33	82	5	68-130	30
2-Hexanone	40	44	110	40	45	112	2	70-130	30
Bromochloromethane	40	37	92	40	38	94	2	70-130	30
2,2-Dichloropropane	40	37	93	40	37	94	1	70-130	30
1,2-Dibromoethane	40	37	93	40	38	96	3	70-130	30
1,3-Dichloropropane	40	36	89	40	36	90	1	69-130	30
1,1,1,2-Tetrachloroethane	40	39	98	40	39	98	0	70-130	30
Bromobenzene	40	38	94	40	39	97	3	70-130	30
n-Butylbenzene	40	35	87	40	36	89	2	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1797137-3 Analysis Date : 06/26/23 11:31 File ID : V04230626A03
LCSD Sample ID : WG1797137-4 Analysis Date : 06/26/23 11:56 File ID : V04230626A04

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
sec-Butylbenzene	40	39	96	40	41	101	5	70-130	30
tert-Butylbenzene	40	38	96	40	40	100	4	70-130	30
o-Chlorotoluene	40	37	92	40	38	95	3	70-130	30
p-Chlorotoluene	40	36	89	40	37	93	4	70-130	30
1,2-Dibromo-3-chloropropane	40	34	86	40	36	89	3	68-130	30
Hexachlorobutadiene	40	38	95	40	39	98	3	67-130	30
Isopropylbenzene	40	40	99	40	41	102	3	70-130	30
p-Isopropyltoluene	40	38	95	40	39	98	3	70-130	30
Naphthalene	40	34	86	40	36	91	6	70-130	30
Acrylonitrile	40	50	126	40	50	124	2	70-130	30
n-Propylbenzene	40	37	93	40	39	97	4	70-130	30
1,2,3-Trichlorobenzene	40	35	87	40	36	91	4	70-130	30
1,2,4-Trichlorobenzene	40	35	88	40	36	90	2	70-130	30
1,3,5-Trimethylbenzene	40	38	95	40	39	98	3	70-130	30
1,2,4-Trimethylbenzene	40	38	95	40	39	98	3	70-130	30
1,4-Dioxane	2000	1900	94	2000	1900	94	0	65-136	30
p-Diethylbenzene	40	38	94	40	39	97	3	70-130	30
p-Ethyltoluene	40	40	99	40	41	102	3	70-130	30
1,2,4,5-Tetramethylbenzene	40	39	97	40	40	99	2	70-130	30
Ethyl ether	40	36	89	40	37	94	5	67-130	30
trans-1,4-Dichloro-2-butene	40	48	119	40	47	116	3	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (HIGH)
LCS Sample ID : WG1797141-3 Analysis Date : 06/26/23 11:31 File ID : V04230626A03
LCSD Sample ID : WG1797141-4 Analysis Date : 06/26/23 11:56 File ID : V04230626A04

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	2000	1800	88	2000	1800	89	1	70-130	30
1,1-Dichloroethane	2000	2500	124	2000	2500	126	2	70-130	30
Chloroform	2000	1800	92	2000	1800	92	0	70-130	30
Carbon tetrachloride	2000	1900	92	2000	1900	94	2	70-130	30
1,2-Dichloropropane	2000	2400	121	2000	2500	125	3	70-130	30
Dibromochloromethane	2000	1800	91	2000	1800	92	1	70-130	30
1,1,2-Trichloroethane	2000	1800	88	2000	1800	90	2	70-130	30
Tetrachloroethene	2000	2100	102	2000	2100	103	1	70-130	30
Chlorobenzene	2000	1900	94	2000	1900	95	1	70-130	30
Trichlorofluoromethane	2000	1500	76	2000	1600	80	5	70-139	30
1,2-Dichloroethane	2000	2100	102	2000	2100	105	3	70-130	30
1,1,1-Trichloroethane	2000	2000	97	2000	2000	99	2	70-130	30
Bromodichloromethane	2000	1800	90	2000	1900	92	2	70-130	30
trans-1,3-Dichloropropene	2000	1800	92	2000	1800	92	0	70-130	30
cis-1,3-Dichloropropene	2000	1900	95	2000	1900	97	2	70-130	30
1,1-Dichloropropene	2000	2000	102	2000	2100	103	1	70-130	30
Bromoform	2000	1700	85	2000	1800	88	3	70-130	30
1,1,2,2-Tetrachloroethane	2000	1600	78	2000	1600	81	4	70-130	30
Benzene	2000	1900	96	2000	2000	98	2	70-130	30
Toluene	2000	1900	93	2000	1900	95	2	70-130	30
Ethylbenzene	2000	1900	96	2000	2000	98	2	70-130	30
Chloromethane	2000	2700	135 Q	2000	2700	133 Q	1	52-130	30
Bromomethane	2000	1200	62	2000	1200	59	5	57-147	30
Vinyl chloride	2000	1600	80	2000	1600	78	3	67-130	30
Chloroethane	2000	1200	60	2000	1200	59	2	50-151	30
1,1-Dichloroethene	2000	1900	97	2000	1900	97	0	65-135	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (HIGH)
LCS Sample ID : WG1797141-3 Analysis Date : 06/26/23 11:31 File ID : V04230626A03
LCSD Sample ID : WG1797141-4 Analysis Date : 06/26/23 11:56 File ID : V04230626A04

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
trans-1,2-Dichloroethene	2000	2000	99	2000	2000	99	0	70-130	30
Trichloroethene	2000	2000	99	2000	2000	102	3	70-130	30
1,2-Dichlorobenzene	2000	1800	92	2000	1900	97	5	70-130	30
1,3-Dichlorobenzene	2000	1900	94	2000	2000	98	4	70-130	30
1,4-Dichlorobenzene	2000	1800	92	2000	1900	94	2	70-130	30
Methyl tert butyl ether	2000	1800	91	2000	1900	94	3	66-130	30
p/m-Xylene	4000	4000	100	4000	4100	101	1	70-130	30
o-Xylene	4000	3900	98	4000	4000	99	1	70-130	30
cis-1,2-Dichloroethene	2000	1900	96	2000	2000	98	2	70-130	30
Dibromomethane	2000	1600	81	2000	1700	84	4	70-130	30
Styrene	4000	4000	99	4000	4000	99	0	70-130	30
Dichlorodifluoromethane	2000	1100	56	2000	1100	56	0	30-146	30
Acetone	2000	1800	89	2000	1800	90	1	54-140	30
Carbon disulfide	2000	1800	92	2000	1800	91	1	59-130	30
2-Butanone	2000	2100	105	2000	1900	97	8	70-130	30
Vinyl acetate	2000	1700	83	2000	1700	87	5	70-130	30
4-Methyl-2-pentanone	2000	2600	128	2000	2600	129	1	70-130	30
1,2,3-Trichloropropane	2000	1600	78	2000	1600	82	5	68-130	30
2-Hexanone	2000	2200	110	2000	2300	112	2	70-130	30
Bromochloromethane	2000	1900	92	2000	1900	94	2	70-130	30
2,2-Dichloropropane	2000	1900	93	2000	1900	94	1	70-130	30
1,2-Dibromoethane	2000	1900	93	2000	1900	96	3	70-130	30
1,3-Dichloropropane	2000	1800	89	2000	1800	90	1	69-130	30
1,1,1,2-Tetrachloroethane	2000	2000	98	2000	2000	98	0	70-130	30
Bromobenzene	2000	1900	94	2000	2000	97	3	70-130	30
n-Butylbenzene	2000	1700	87	2000	1800	89	2	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (HIGH)
LCS Sample ID : WG1797141-3 Analysis Date : 06/26/23 11:31 File ID : V04230626A03
LCSD Sample ID : WG1797141-4 Analysis Date : 06/26/23 11:56 File ID : V04230626A04

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
sec-Butylbenzene	2000	1900	96	2000	2000	101	5	70-130	30
tert-Butylbenzene	2000	1900	96	2000	2000	100	4	70-130	30
o-Chlorotoluene	2000	1800	92	2000	1900	95	3	70-130	30
p-Chlorotoluene	2000	1800	89	2000	1900	93	4	70-130	30
1,2-Dibromo-3-chloropropane	2000	1700	86	2000	1800	89	3	68-130	30
Hexachlorobutadiene	2000	1900	95	2000	2000	98	3	67-130	30
Isopropylbenzene	2000	2000	99	2000	2000	102	3	70-130	30
p-Isopropyltoluene	2000	1900	95	2000	2000	98	3	70-130	30
Naphthalene	2000	1700	86	2000	1800	91	6	70-130	30
Acrylonitrile	2000	2500	126	2000	2500	124	2	70-130	30
n-Propylbenzene	2000	1900	93	2000	1900	97	4	70-130	30
1,2,3-Trichlorobenzene	2000	1700	87	2000	1800	91	4	70-130	30
1,2,4-Trichlorobenzene	2000	1800	88	2000	1800	90	2	70-130	30
1,3,5-Trimethylbenzene	2000	1900	95	2000	2000	98	3	70-130	30
1,2,4-Trimethylbenzene	2000	1900	95	2000	2000	98	3	70-130	30
1,4-Dioxane	100000	94000	94	100000	94000	94	0	65-136	30
p-Diethylbenzene	2000	1900	94	2000	1900	97	3	70-130	30
p-Ethyltoluene	2000	2000	99	2000	2000	102	3	70-130	30
1,2,4,5-Tetramethylbenzene	2000	1900	97	2000	2000	99	2	70-130	30
Ethyl ether	2000	1800	89	2000	1900	94	5	67-130	30
trans-1,4-Dichloro-2-butene	2000	2400	119	2000	2300	116	3	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (HIGH)
LCS Sample ID : WG1797169-3 Analysis Date : 06/27/23 18:40 File ID : V31230627N02
LCSD Sample ID : WG1797169-4 Analysis Date : 06/27/23 19:03 File ID : V31230627N03

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R		True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	2000	1800	92		2000	1700	86	7	70-130	30
1,1-Dichloroethane	2000	2100	103		2000	1900	95	8	70-130	30
Chloroform	2000	1900	95		2000	1800	90	5	70-130	30
Carbon tetrachloride	2000	2200	109		2000	2000	101	8	70-130	30
1,2-Dichloropropane	2000	1900	92		2000	1700	87	6	70-130	30
Dibromochloromethane	2000	1700	83		2000	1600	80	4	70-130	30
1,1,2-Trichloroethane	2000	1600	81		2000	1600	78	4	70-130	30
Tetrachloroethene	2000	1600	81		2000	1400	72	12	70-130	30
Chlorobenzene	2000	1800	88		2000	1600	81	8	70-130	30
Trichlorofluoromethane	2000	1800	90		2000	1600	79	13	70-139	30
1,2-Dichloroethane	2000	2100	107		2000	2100	104	3	70-130	30
1,1,1-Trichloroethane	2000	2300	114		2000	2100	102	11	70-130	30
Bromodichloromethane	2000	2100	107		2000	2000	101	6	70-130	30
trans-1,3-Dichloropropene	2000	1700	84		2000	1600	80	5	70-130	30
cis-1,3-Dichloropropene	2000	2000	98		2000	1900	93	5	70-130	30
1,1-Dichloropropene	2000	1700	87		2000	1500	77	12	70-130	30
Bromoform	2000	1600	82		2000	1600	78	5	70-130	30
1,1,2,2-Tetrachloroethane	2000	1300	66	Q	2000	1200	62	Q 6	70-130	30
Benzene	2000	1900	95		2000	1800	88	8	70-130	30
Toluene	2000	1600	82		2000	1500	75	9	70-130	30
Ethylbenzene	2000	1800	88		2000	1600	80	10	70-130	30
Chloromethane	2000	1900	97		2000	1700	86	12	52-130	30
Bromomethane	2000	2200	110		2000	2000	99	11	57-147	30
Vinyl chloride	2000	2200	108		2000	1800	90	18	67-130	30
Chloroethane	2000	2200	107		2000	1900	96	11	50-151	30
1,1-Dichloroethene	2000	2100	107		2000	1800	88	19	65-135	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Matrix (Level)	: SOIL (HIGH)		
LCS Sample ID	: WG1797169-3 Analysis Date : 06/27/23 18:40	File ID	: V31230627N02
LCSD Sample ID	: WG1797169-4 Analysis Date : 06/27/23 19:03	File ID	: V31230627N03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
trans-1,2-Dichloroethene	2000	1800	92	2000	1600	82	11	70-130	30
Trichloroethene	2000	1800	89	2000	1700	84	6	70-130	30
1,2-Dichlorobenzene	2000	1700	83	2000	1500	76	9	70-130	30
1,3-Dichlorobenzene	2000	1600	82	2000	1500	75	9	70-130	30
1,4-Dichlorobenzene	2000	1600	82	2000	1500	75	9	70-130	30
Methyl tert butyl ether	2000	1900	97	2000	1900	93	4	66-130	30
p/m-Xylene	4000	3800	94	4000	3400	86	9	70-130	30
o-Xylene	4000	3700	93	4000	3400	86	8	70-130	30
cis-1,2-Dichloroethene	2000	1800	91	2000	1700	86	6	70-130	30
Dibromomethane	2000	2000	100	2000	1900	97	3	70-130	30
Styrene	4000	3700	92	4000	3400	86	7	70-130	30
Dichlorodifluoromethane	2000	1100	54	2000	920	46	16	30-146	30
Acetone	2000	2300	115	2000	2300	115	0	54-140	30
Carbon disulfide	2000	2100	104	2000	1800	90	14	59-130	30
2-Butanone	2000	2000	101	2000	1900	95	6	70-130	30
Vinyl acetate	2000	1800	91	2000	1700	84	8	70-130	30
4-Methyl-2-pentanone	2000	1700	83	2000	1600	78	6	70-130	30
1,2,3-Trichloropropane	2000	1500	75	2000	1400	72	4	68-130	30
2-Hexanone	2000	1800	88	2000	1700	85	3	70-130	30
Bromochloromethane	2000	2000	102	2000	2000	98	4	70-130	30
2,2-Dichloropropane	2000	2100	104	2000	1900	93	11	70-130	30
1,2-Dibromoethane	2000	1500	76	2000	1500	73	4	70-130	30
1,3-Dichloropropane	2000	1600	79	2000	1500	75	5	69-130	30
1,1,1,2-Tetrachloroethane	2000	1800	88	2000	1600	82	7	70-130	30
Bromobenzene	2000	1600	80	2000	1500	73	9	70-130	30
n-Butylbenzene	2000	1700	84	2000	1500	74	13	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Matrix (Level)	: SOIL (HIGH)		
LCS Sample ID	: WG1797169-3 Analysis Date : 06/27/23 18:40	File ID	: V31230627N02
LCSD Sample ID	: WG1797169-4 Analysis Date : 06/27/23 19:03	File ID	: V31230627N03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
sec-Butylbenzene	2000	1600	81	2000	1400	71	13	70-130	30
tert-Butylbenzene	2000	1600	81	2000	1400	72	12	70-130	30
o-Chlorotoluene	2000	1600	81	2000	1500	74	9	70-130	30
p-Chlorotoluene	2000	1600	81	2000	1500	74	9	70-130	30
1,2-Dibromo-3-chloropropane	2000	1600	79	2000	1500	76	4	68-130	30
Hexachlorobutadiene	2000	1800	89	2000	1500	77	14	67-130	30
Isopropylbenzene	2000	1600	79	2000	1400	70	12	70-130	30
p-Isopropyltoluene	2000	1700	84	2000	1500	74	13	70-130	30
Naphthalene	2000	1500	74	2000	1400	69 Q	7	70-130	30
Acrylonitrile	2000	2000	102	2000	2100	103	1	70-130	30
n-Propylbenzene	2000	1600	81	2000	1400	72	12	70-130	30
1,2,3-Trichlorobenzene	2000	1500	77	2000	1400	71	8	70-130	30
1,2,4-Trichlorobenzene	2000	1600	78	2000	1400	72	8	70-130	30
1,3,5-Trimethylbenzene	2000	1800	88	2000	1600	78	12	70-130	30
1,2,4-Trimethylbenzene	2000	1700	85	2000	1500	77	10	70-130	30
1,4-Dioxane	100000	100000	104	100000	100000	104	0	65-136	30
p-Diethylbenzene	2000	1700	86	2000	1500	76	12	70-130	30
p-Ethyltoluene	2000	1700	84	2000	1500	75	11	70-130	30
1,2,4,5-Tetramethylbenzene	2000	1300	67 Q	2000	1200	62 Q	8	70-130	30
Ethyl ether	2000	2000	101	2000	1800	90	12	67-130	30
trans-1,4-Dichloro-2-butene	2000	1700	86	2000	1600	82	5	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Matrix (Level)	: SOIL (LOW)		
LCS Sample ID	: WG1797173-3 Analysis Date : 06/27/23 18:40	File ID	: V31230627N02
LCSD Sample ID	: WG1797173-4 Analysis Date : 06/27/23 19:03	File ID	: V31230627N03

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R		True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	40	37	92		40	34	86	7	70-130	30
1,1-Dichloroethane	40	41	103		40	38	95	8	70-130	30
Chloroform	40	38	95		40	36	90	5	70-130	30
Carbon tetrachloride	40	44	109		40	40	101	8	70-130	30
1,2-Dichloropropane	40	37	92		40	35	87	6	70-130	30
Dibromochloromethane	40	33	83		40	32	80	4	70-130	30
1,1,2-Trichloroethane	40	33	81		40	31	78	4	70-130	30
Tetrachloroethene	40	33	81		40	29	72	12	70-130	30
Chlorobenzene	40	35	88		40	32	81	8	70-130	30
Trichlorofluoromethane	40	36	90		40	31	79	13	70-139	30
1,2-Dichloroethane	40	43	107		40	41	104	3	70-130	30
1,1,1-Trichloroethane	40	45	114		40	41	102	11	70-130	30
Bromodichloromethane	40	43	107		40	41	101	6	70-130	30
trans-1,3-Dichloropropene	40	34	84		40	32	80	5	70-130	30
cis-1,3-Dichloropropene	40	39	98		40	37	93	5	70-130	30
1,1-Dichloropropene	40	35	87		40	31	77	12	70-130	30
Bromoform	40	33	82		40	31	78	5	70-130	30
1,1,2,2-Tetrachloroethane	40	27	66	Q	40	25	62	Q 6	70-130	30
Benzene	40	38	95		40	35	88	8	70-130	30
Toluene	40	33	82		40	30	75	9	70-130	30
Ethylbenzene	40	35	88		40	32	80	10	70-130	30
Chloromethane	40	39	97		40	34	86	12	52-130	30
Bromomethane	40	44	110		40	39	99	11	57-147	30
Vinyl chloride	40	43	108		40	36	90	18	67-130	30
Chloroethane	40	43	107		40	39	96	11	50-151	30
1,1-Dichloroethene	40	43	107		40	35	88	19	65-135	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1797173-3 Analysis Date : 06/27/23 18:40 File ID : V31230627N02
LCSD Sample ID : WG1797173-4 Analysis Date : 06/27/23 19:03 File ID : V31230627N03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
trans-1,2-Dichloroethene	40	37	92	40	33	82	11	70-130	30
Trichloroethene	40	36	89	40	34	84	6	70-130	30
1,2-Dichlorobenzene	40	33	83	40	31	76	9	70-130	30
1,3-Dichlorobenzene	40	33	82	40	30	75	9	70-130	30
1,4-Dichlorobenzene	40	33	82	40	30	75	9	70-130	30
Methyl tert butyl ether	40	39	97	40	37	93	4	66-130	30
p/m-Xylene	80	75	94	80	69	86	9	70-130	30
o-Xylene	80	75	93	80	69	86	8	70-130	30
cis-1,2-Dichloroethene	40	36	91	40	34	86	6	70-130	30
Dibromomethane	40	40	100	40	39	97	3	70-130	30
Styrene	80	74	92	80	69	86	7	70-130	30
Dichlorodifluoromethane	40	22	54	40	18	46	16	30-146	30
Acetone	40	46	115	40	46	115	0	54-140	30
Carbon disulfide	40	42	104	40	36	90	14	59-130	30
2-Butanone	40	41	101	40	38	95	6	70-130	30
Vinyl acetate	40	37	91	40	33	84	8	70-130	30
4-Methyl-2-pentanone	40	33	83	40	31	78	6	70-130	30
1,2,3-Trichloropropane	40	30	75	40	29	72	4	68-130	30
2-Hexanone	40	35	88	40	34	85	3	70-130	30
Bromochloromethane	40	41	102	40	39	98	4	70-130	30
2,2-Dichloropropane	40	42	104	40	37	93	11	70-130	30
1,2-Dibromoethane	40	31	76	40	29	73	4	70-130	30
1,3-Dichloropropane	40	32	79	40	30	75	5	69-130	30
1,1,1,2-Tetrachloroethane	40	35	88	40	33	82	7	70-130	30
Bromobenzene	40	32	80	40	29	73	9	70-130	30
n-Butylbenzene	40	34	84	40	29	74	13	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1797173-3 Analysis Date : 06/27/23 18:40 File ID : V31230627N02
LCSD Sample ID : WG1797173-4 Analysis Date : 06/27/23 19:03 File ID : V31230627N03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
sec-Butylbenzene	40	33	81	40	29	71	13	70-130	30
tert-Butylbenzene	40	32	81	40	29	72	12	70-130	30
o-Chlorotoluene	40	33	81	40	30	74	9	70-130	30
p-Chlorotoluene	40	33	81	40	29	74	9	70-130	30
1,2-Dibromo-3-chloropropane	40	32	79	40	30	76	4	68-130	30
Hexachlorobutadiene	40	36	89	40	31	77	14	67-130	30
Isopropylbenzene	40	32	79	40	28	70	12	70-130	30
p-Isopropyltoluene	40	34	84	40	30	74	13	70-130	30
Naphthalene	40	29	74	40	28	69 Q	7	70-130	30
Acrylonitrile	40	41	102	40	41	103	1	70-130	30
n-Propylbenzene	40	32	81	40	29	72	12	70-130	30
1,2,3-Trichlorobenzene	40	31	77	40	29	71	8	70-130	30
1,2,4-Trichlorobenzene	40	31	78	40	29	72	8	70-130	30
1,3,5-Trimethylbenzene	40	35	88	40	31	78	12	70-130	30
1,2,4-Trimethylbenzene	40	34	85	40	31	77	10	70-130	30
1,4-Dioxane	2000	2100	104	2000	2100	104	0	65-136	30
p-Diethylbenzene	40	35	86	40	30	76	12	70-130	30
p-Ethyltoluene	40	34	84	40	30	75	11	70-130	30
1,2,4,5-Tetramethylbenzene	40	27	67 Q	40	25	62 Q	8	70-130	30
Ethyl ether	40	40	101	40	36	90	12	67-130	30
trans-1,4-Dichloro-2-butene	40	34	86	40	33	82	5	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (HIGH)
LCS Sample ID : WG1797202-3 Analysis Date : 06/24/23 07:59 File ID : V31230624A02
LCSD Sample ID : WG1797202-4 Analysis Date : 06/24/23 08:22 File ID : V31230624A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	2000	1800	92	2000	1700	87	6	70-130	30
1,1-Dichloroethane	2000	2000	101	2000	2000	100	1	70-130	30
Chloroform	2000	1900	95	2000	1900	96	1	70-130	30
Carbon tetrachloride	2000	2100	105	2000	2100	105	0	70-130	30
1,2-Dichloropropane	2000	1800	92	2000	1900	93	1	70-130	30
Dibromochloromethane	2000	1700	86	2000	1700	83	4	70-130	30
1,1,2-Trichloroethane	2000	1700	85	2000	1600	81	5	70-130	30
Tetrachloroethene	2000	1600	82	2000	1500	77	6	70-130	30
Chlorobenzene	2000	1800	91	2000	1700	86	6	70-130	30
Trichlorofluoromethane	2000	1800	90	2000	1800	87	3	70-139	30
1,2-Dichloroethane	2000	2100	106	2000	2200	107	1	70-130	30
1,1,1-Trichloroethane	2000	2200	108	2000	2200	109	1	70-130	30
Bromodichloromethane	2000	2100	106	2000	2200	109	3	70-130	30
trans-1,3-Dichloropropene	2000	1700	87	2000	1700	82	6	70-130	30
cis-1,3-Dichloropropene	2000	2000	98	2000	2000	99	1	70-130	30
1,1-Dichloropropene	2000	1600	81	2000	1600	82	1	70-130	30
Bromoform	2000	1700	85	2000	1600	78	9	70-130	30
1,1,2,2-Tetrachloroethane	2000	1400	70	2000	1300	63 Q	11	70-130	30
Benzene	2000	1900	94	2000	1900	96	2	70-130	30
Toluene	2000	1700	84	2000	1600	80	5	70-130	30
Ethylbenzene	2000	1800	90	2000	1700	85	6	70-130	30
Chloromethane	2000	2300	116	2000	2400	122	5	52-130	30
Bromomethane	2000	2300	115	2000	2200	112	3	57-147	30
Vinyl chloride	2000	2400	118	2000	2400	118	0	67-130	30
Chloroethane	2000	2200	111	2000	2100	106	5	50-151	30
1,1-Dichloroethene	2000	1900	93	2000	2000	99	6	65-135	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Matrix (Level)	: SOIL (HIGH)		
LCS Sample ID	: WG1797202-3 Analysis Date : 06/24/23 07:59	File ID	: V31230624A02
LCSD Sample ID	: WG1797202-4 Analysis Date : 06/24/23 08:22	File ID	: V31230624A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
trans-1,2-Dichloroethene	2000	1700	86	2000	1800	88	2	70-130	30
Trichloroethene	2000	1700	87	2000	1800	88	1	70-130	30
1,2-Dichlorobenzene	2000	1800	88	2000	1600	81	8	70-130	30
1,3-Dichlorobenzene	2000	1800	88	2000	1600	79	11	70-130	30
1,4-Dichlorobenzene	2000	1800	89	2000	1600	80	11	70-130	30
Methyl tert butyl ether	2000	1900	92	2000	2000	97	5	66-130	30
p/m-Xylene	4000	3900	98	4000	3700	92	6	70-130	30
o-Xylene	4000	3900	98	4000	3700	93	5	70-130	30
cis-1,2-Dichloroethene	2000	1800	90	2000	1800	91	1	70-130	30
Dibromomethane	2000	2000	100	2000	2000	101	1	70-130	30
Styrene	4000	3900	97	4000	3700	92	5	70-130	30
Dichlorodifluoromethane	2000	1800	90	2000	2000	100	11	30-146	30
Acetone	2000	2300	117	2000	2300	116	1	54-140	30
Carbon disulfide	2000	2100	104	2000	2100	105	1	59-130	30
2-Butanone	2000	1900	94	2000	1900	93	1	70-130	30
Vinyl acetate	2000	2000	98	2000	1900	97	1	70-130	30
4-Methyl-2-pentanone	2000	1600	81	2000	1600	79	3	70-130	30
1,2,3-Trichloropropane	2000	1500	76	2000	1400	69	10	68-130	30
2-Hexanone	2000	1700	85	2000	1600	81	5	70-130	30
Bromochloromethane	2000	2100	104	2000	2100	103	1	70-130	30
2,2-Dichloropropane	2000	2000	100	2000	2000	102	2	70-130	30
1,2-Dibromoethane	2000	1500	77	2000	1500	74	4	70-130	30
1,3-Dichloropropane	2000	1600	80	2000	1500	77	4	69-130	30
1,1,1,2-Tetrachloroethane	2000	1800	91	2000	1700	87	4	70-130	30
Bromobenzene	2000	1700	85	2000	1500	76	11	70-130	30
n-Butylbenzene	2000	1700	86	2000	1600	78	10	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Matrix (Level)	: SOIL (HIGH)		
LCS Sample ID	: WG1797202-3 Analysis Date : 06/24/23 07:59	File ID	: V31230624A02
LCSD Sample ID	: WG1797202-4 Analysis Date : 06/24/23 08:22	File ID	: V31230624A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
sec-Butylbenzene	2000	1700	83	2000	1500	75	10	70-130	30
tert-Butylbenzene	2000	1700	83	2000	1500	75	10	70-130	30
o-Chlorotoluene	2000	1700	84	2000	1500	77	9	70-130	30
p-Chlorotoluene	2000	1700	85	2000	1500	77	10	70-130	30
1,2-Dibromo-3-chloropropane	2000	1700	83	2000	1500	76	9	68-130	30
Hexachlorobutadiene	2000	1900	94	2000	1700	83	12	67-130	30
Isopropylbenzene	2000	1600	80	2000	1500	72	11	70-130	30
p-Isopropyltoluene	2000	1700	87	2000	1600	78	11	70-130	30
Naphthalene	2000	1600	79	2000	1400	71	11	70-130	30
Acrylonitrile	2000	2100	105	2000	2100	106	1	70-130	30
n-Propylbenzene	2000	1700	83	2000	1500	75	10	70-130	30
1,2,3-Trichlorobenzene	2000	1700	86	2000	1500	77	11	70-130	30
1,2,4-Trichlorobenzene	2000	1700	87	2000	1600	78	11	70-130	30
1,3,5-Trimethylbenzene	2000	1800	90	2000	1600	82	9	70-130	30
1,2,4-Trimethylbenzene	2000	1800	89	2000	1600	80	11	70-130	30
1,4-Dioxane	100000	100000	104	100000	110000	108	4	65-136	30
p-Diethylbenzene	2000	1800	90	2000	1600	80	12	70-130	30
p-Ethyltoluene	2000	1800	87	2000	1600	79	10	70-130	30
1,2,4,5-Tetramethylbenzene	2000	1500	72	2000	1300	66 Q	9	70-130	30
Ethyl ether	2000	1900	93	2000	1900	94	1	67-130	30
trans-1,4-Dichloro-2-butene	2000	1700	86	2000	1600	79	8	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1797206-3 Analysis Date : 06/24/23 07:59 File ID : V31230624A02
LCSD Sample ID : WG1797206-4 Analysis Date : 06/24/23 08:22 File ID : V31230624A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	40	37	92	40	35	87	6	70-130	30
1,1-Dichloroethane	40	40	101	40	40	100	1	70-130	30
Chloroform	40	38	95	40	38	96	1	70-130	30
Carbon tetrachloride	40	42	105	40	42	105	0	70-130	30
1,2-Dichloropropane	40	37	92	40	37	93	1	70-130	30
Dibromochloromethane	40	35	86	40	33	83	4	70-130	30
1,1,2-Trichloroethane	40	34	85	40	32	81	5	70-130	30
Tetrachloroethene	40	33	82	40	31	77	6	70-130	30
Chlorobenzene	40	36	91	40	35	86	6	70-130	30
Trichlorofluoromethane	40	36	90	40	35	87	3	70-139	30
1,2-Dichloroethane	40	42	106	40	43	107	1	70-130	30
1,1,1-Trichloroethane	40	43	108	40	44	109	1	70-130	30
Bromodichloromethane	40	42	106	40	44	109	3	70-130	30
trans-1,3-Dichloropropene	40	35	87	40	33	82	6	70-130	30
cis-1,3-Dichloropropene	40	39	98	40	40	99	1	70-130	30
1,1-Dichloropropene	40	32	81	40	33	82	1	70-130	30
Bromoform	40	34	85	40	31	78	9	70-130	30
1,1,2,2-Tetrachloroethane	40	28	70	40	25	63 Q	11	70-130	30
Benzene	40	38	94	40	38	96	2	70-130	30
Toluene	40	34	84	40	32	80	5	70-130	30
Ethylbenzene	40	36	90	40	34	85	6	70-130	30
Chloromethane	40	47	116	40	49	122	5	52-130	30
Bromomethane	40	46	115	40	45	112	3	57-147	30
Vinyl chloride	40	47	118	40	47	118	0	67-130	30
Chloroethane	40	45	111	40	42	106	5	50-151	30
1,1-Dichloroethene	40	37	93	40	40	99	6	65-135	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Matrix (Level)	: SOIL (LOW)		
LCS Sample ID	: WG1797206-3	Analysis Date : 06/24/23 07:59	File ID : V31230624A02
LCSD Sample ID	: WG1797206-4	Analysis Date : 06/24/23 08:22	File ID : V31230624A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
trans-1,2-Dichloroethene	40	34	86	40	35	88	2	70-130	30
Trichloroethene	40	35	87	40	35	88	1	70-130	30
1,2-Dichlorobenzene	40	35	88	40	32	81	8	70-130	30
1,3-Dichlorobenzene	40	35	88	40	32	79	11	70-130	30
1,4-Dichlorobenzene	40	35	89	40	32	80	11	70-130	30
Methyl tert butyl ether	40	37	92	40	39	97	5	66-130	30
p/m-Xylene	80	78	98	80	74	92	6	70-130	30
o-Xylene	80	78	98	80	74	93	5	70-130	30
cis-1,2-Dichloroethene	40	36	90	40	36	91	1	70-130	30
Dibromomethane	40	40	100	40	41	101	1	70-130	30
Styrene	80	78	97	80	74	92	5	70-130	30
Dichlorodifluoromethane	40	36	90	40	40	100	11	30-146	30
Acetone	40	47	117	40	46	116	1	54-140	30
Carbon disulfide	40	42	104	40	42	105	1	59-130	30
2-Butanone	40	38	94	40	37	93	1	70-130	30
Vinyl acetate	40	39	98	40	39	97	1	70-130	30
4-Methyl-2-pentanone	40	33	81	40	32	79	3	70-130	30
1,2,3-Trichloropropane	40	30	76	40	28	69	10	68-130	30
2-Hexanone	40	34	85	40	32	81	5	70-130	30
Bromochloromethane	40	42	104	40	41	103	1	70-130	30
2,2-Dichloropropane	40	40	100	40	41	102	2	70-130	30
1,2-Dibromoethane	40	31	77	40	30	74	4	70-130	30
1,3-Dichloropropane	40	32	80	40	31	77	4	69-130	30
1,1,1,2-Tetrachloroethane	40	36	91	40	35	87	4	70-130	30
Bromobenzene	40	34	85	40	30	76	11	70-130	30
n-Butylbenzene	40	35	86	40	31	78	10	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Matrix (Level)	: SOIL (LOW)		
LCS Sample ID	: WG1797206-3 Analysis Date : 06/24/23 07:59	File ID	: V31230624A02
LCSD Sample ID	: WG1797206-4 Analysis Date : 06/24/23 08:22	File ID	: V31230624A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
sec-Butylbenzene	40	33	83	40	30	75	10	70-130	30
tert-Butylbenzene	40	33	83	40	30	75	10	70-130	30
o-Chlorotoluene	40	34	84	40	31	77	9	70-130	30
p-Chlorotoluene	40	34	85	40	31	77	10	70-130	30
1,2-Dibromo-3-chloropropane	40	33	83	40	31	76	9	68-130	30
Hexachlorobutadiene	40	38	94	40	33	83	12	67-130	30
Isopropylbenzene	40	32	80	40	29	72	11	70-130	30
p-Isopropyltoluene	40	35	87	40	31	78	11	70-130	30
Naphthalene	40	32	79	40	29	71	11	70-130	30
Acrylonitrile	40	42	105	40	43	106	1	70-130	30
n-Propylbenzene	40	33	83	40	30	75	10	70-130	30
1,2,3-Trichlorobenzene	40	34	86	40	31	77	11	70-130	30
1,2,4-Trichlorobenzene	40	35	87	40	31	78	11	70-130	30
1,3,5-Trimethylbenzene	40	36	90	40	33	82	9	70-130	30
1,2,4-Trimethylbenzene	40	36	89	40	32	80	11	70-130	30
1,4-Dioxane	2000	2100	104	2000	2200	108	4	65-136	30
p-Diethylbenzene	40	36	90	40	32	80	12	70-130	30
p-Ethyltoluene	40	35	87	40	31	79	10	70-130	30
1,2,4,5-Tetramethylbenzene	40	29	72	40	26	66 Q	9	70-130	30
Ethyl ether	40	37	93	40	38	94	1	67-130	30
trans-1,4-Dichloro-2-butene	40	34	86	40	32	79	8	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Matrix (Level)	: SOIL (HIGH)		
LCS Sample ID	: WG1797314-3 Analysis Date : 06/28/23 07:52	File ID	: V31230628A01
LCSD Sample ID	: WG1797314-4 Analysis Date : 06/28/23 08:15	File ID	: V31230628A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	2000	2100	104	2000	2000	101	3	70-130	30
1,1-Dichloroethane	2000	2300	113	2000	2300	116	3	70-130	30
Chloroform	2000	2000	101	2000	2300	113	11	70-130	30
Carbon tetrachloride	2000	2500	124	2000	2600	127	2	70-130	30
1,2-Dichloropropane	2000	2000	99	2000	2100	102	3	70-130	30
Dibromochloromethane	2000	1700	85	2000	1900	93	9	70-130	30
1,1,2-Trichloroethane	2000	1700	85	2000	1800	91	7	70-130	30
Tetrachloroethene	2000	1900	93	2000	1800	91	2	70-130	30
Chlorobenzene	2000	2000	98	2000	2000	99	1	70-130	30
Trichlorofluoromethane	2000	2200	112	2000	2200	109	3	70-139	30
1,2-Dichloroethane	2000	2300	112	2000	2400	122	9	70-130	30
1,1,1-Trichloroethane	2000	2500	125	2000	2600	128	2	70-130	30
Bromodichloromethane	2000	2200	111	2000	2400	120	8	70-130	30
trans-1,3-Dichloropropene	2000	1700	87	2000	1900	94	8	70-130	30
cis-1,3-Dichloropropene	2000	2100	103	2000	2200	110	7	70-130	30
1,1-Dichloropropene	2000	1900	96	2000	1900	97	1	70-130	30
Bromoform	2000	1700	84	2000	1800	92	9	70-130	30
1,1,2,2-Tetrachloroethane	2000	1400	71	2000	1600	78	9	70-130	30
Benzene	2000	2100	107	2000	2200	108	1	70-130	30
Toluene	2000	1900	94	2000	1900	93	1	70-130	30
Ethylbenzene	2000	2000	100	2000	2000	100	0	70-130	30
Chloromethane	2000	3300	166 Q	2000	3100	156 Q	6	52-130	30
Bromomethane	2000	2800	139	2000	2800	139	0	57-147	30
Vinyl chloride	2000	3200	158 Q	2000	3100	153 Q	3	67-130	30
Chloroethane	2000	2900	143	2000	2600	132	8	50-151	30
1,1-Dichloroethene	2000	2300	117	2000	2400	121	3	65-135	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Matrix (Level)	: SOIL (HIGH)		
LCS Sample ID	: WG1797314-3 Analysis Date : 06/28/23 07:52	File ID	: V31230628A01
LCSD Sample ID	: WG1797314-4 Analysis Date : 06/28/23 08:15	File ID	: V31230628A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
trans-1,2-Dichloroethene	2000	2000	98	2000	2100	104	6	70-130	30
Trichloroethene	2000	1900	95	2000	2000	100	5	70-130	30
1,2-Dichlorobenzene	2000	1800	92	2000	1900	94	2	70-130	30
1,3-Dichlorobenzene	2000	1900	94	2000	1900	94	0	70-130	30
1,4-Dichlorobenzene	2000	1900	93	2000	1900	94	1	70-130	30
Methyl tert butyl ether	2000	2200	110	2000	2500	125	13	66-130	30
p/m-Xylene	4000	4300	108	4000	4300	107	1	70-130	30
o-Xylene	4000	4200	106	4000	4200	106	0	70-130	30
cis-1,2-Dichloroethene	2000	2000	100	2000	2100	103	3	70-130	30
Dibromomethane	2000	2100	102	2000	2300	112	9	70-130	30
Styrene	4000	4100	102	4000	4200	105	3	70-130	30
Dichlorodifluoromethane	2000	3400	172 Q	2000	3000	148 Q	15	30-146	30
Acetone	2000	2300	116	2000	2700	133	14	54-140	30
Carbon disulfide	2000	2600	130	2000	2500	127	2	59-130	30
2-Butanone	2000	2000	100	2000	2300	116	15	70-130	30
Vinyl acetate	2000	1900	94	2000	2100	103	9	70-130	30
4-Methyl-2-pentanone	2000	1600	82	2000	1900	95	15	70-130	30
1,2,3-Trichloropropane	2000	1600	78	2000	1700	84	7	68-130	30
2-Hexanone	2000	1700	86	2000	2000	99	14	70-130	30
Bromochloromethane	2000	2200	108	2000	2300	112	4	70-130	30
2,2-Dichloropropane	2000	2400	119	2000	2400	119	0	70-130	30
1,2-Dibromoethane	2000	1600	78	2000	1700	84	7	70-130	30
1,3-Dichloropropane	2000	1600	81	2000	1800	88	8	69-130	30
1,1,1,2-Tetrachloroethane	2000	1900	92	2000	1900	96	4	70-130	30
Bromobenzene	2000	1700	87	2000	1800	90	3	70-130	30
n-Butylbenzene	2000	2000	101	2000	2000	98	3	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (HIGH)
LCS Sample ID : WG1797314-3 Analysis Date : 06/28/23 07:52 File ID : V31230628A01
LCSD Sample ID : WG1797314-4 Analysis Date : 06/28/23 08:15 File ID : V31230628A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
sec-Butylbenzene	2000	1900	96	2000	1900	94	2	70-130	30
tert-Butylbenzene	2000	1900	96	2000	1900	93	3	70-130	30
o-Chlorotoluene	2000	1900	93	2000	1900	93	0	70-130	30
p-Chlorotoluene	2000	1900	94	2000	1900	93	1	70-130	30
1,2-Dibromo-3-chloropropane	2000	1600	78	2000	1800	89	13	68-130	30
Hexachlorobutadiene	2000	2100	106	2000	2100	105	1	67-130	30
Isopropylbenzene	2000	1900	93	2000	1800	90	3	70-130	30
p-Isopropyltoluene	2000	2000	100	2000	1900	97	3	70-130	30
Naphthalene	2000	1500	77	2000	1700	84	9	70-130	30
Acrylonitrile	2000	2100	106	2000	2400	118	11	70-130	30
n-Propylbenzene	2000	1900	96	2000	1900	93	3	70-130	30
1,2,3-Trichlorobenzene	2000	1600	82	2000	1800	88	7	70-130	30
1,2,4-Trichlorobenzene	2000	1700	85	2000	1800	91	7	70-130	30
1,3,5-Trimethylbenzene	2000	2000	101	2000	2000	100	1	70-130	30
1,2,4-Trimethylbenzene	2000	1900	97	2000	2000	98	1	70-130	30
1,4-Dioxane	100000	97000	97	100000	110000	107	10	65-136	30
p-Diethylbenzene	2000	2000	101	2000	2000	99	2	70-130	30
p-Ethyltoluene	2000	2000	98	2000	1900	96	2	70-130	30
1,2,4,5-Tetramethylbenzene	2000	1400	70	2000	1500	77	10	70-130	30
Ethyl ether	2000	2200	110	2000	2500	123	11	67-130	30
trans-1,4-Dichloro-2-butene	2000	1800	88	2000	1900	97	10	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1799615-3 Analysis Date : 07/03/23 07:14 File ID : V26230703A02
LCSD Sample ID : WG1799615-4 Analysis Date : 07/03/23 07:53 File ID : V26230703A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	40	33	83	40	33	83	0	70-130	30
1,1-Dichloroethane	40	39	97	40	39	96	1	70-130	30
Chloroform	40	35	88	40	35	88	0	70-130	30
Carbon tetrachloride	40	32	79	40	32	79	0	70-130	30
1,2-Dichloropropane	40	38	94	40	38	96	2	70-130	30
Dibromochloromethane	40	36	90	40	36	90	0	70-130	30
1,1,2-Trichloroethane	40	38	94	40	39	98	4	70-130	30
Tetrachloroethene	40	37	92	40	37	91	1	70-130	30
Chlorobenzene	40	38	96	40	38	95	1	70-130	30
Trichlorofluoromethane	40	34	85	40	33	82	4	70-139	30
1,2-Dichloroethane	40	35	88	40	35	87	1	70-130	30
1,1,1-Trichloroethane	40	36	89	40	35	88	1	70-130	30
Bromodichloromethane	40	34	86	40	36	89	3	70-130	30
trans-1,3-Dichloropropene	40	36	89	40	38	94	5	70-130	30
cis-1,3-Dichloropropene	40	35	88	40	35	88	0	70-130	30
1,1-Dichloropropene	40	39	97	40	39	97	0	70-130	30
Bromoform	40	34	84	40	33	82	2	70-130	30
1,1,2,2-Tetrachloroethane	40	41	103	40	40	99	4	70-130	30
Benzene	40	37	92	40	37	92	0	70-130	30
Toluene	40	38	94	40	40	99	5	70-130	30
Ethylbenzene	40	41	102	40	41	102	0	70-130	30
Chloromethane	40	42	106	40	43	107	1	52-130	30
Bromomethane	40	37	92	40	36	90	2	57-147	30
Vinyl chloride	40	40	99	40	40	99	0	67-130	30
Chloroethane	40	41	102	40	40	99	3	50-151	30
1,1-Dichloroethene	40	36	89	40	36	90	1	65-135	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1799615-3 Analysis Date : 07/03/23 07:14 File ID : V26230703A02
LCSD Sample ID : WG1799615-4 Analysis Date : 07/03/23 07:53 File ID : V26230703A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
trans-1,2-Dichloroethene	40	35	89	40	36	89	0	70-130	30
Trichloroethene	40	36	91	40	39	97	6	70-130	30
1,2-Dichlorobenzene	40	38	96	40	38	96	0	70-130	30
1,3-Dichlorobenzene	40	39	97	40	39	97	0	70-130	30
1,4-Dichlorobenzene	40	39	96	40	39	96	0	70-130	30
Methyl tert butyl ether	40	37	91	40	37	92	1	66-130	30
p/m-Xylene	80	79	98	80	79	98	0	70-130	30
o-Xylene	80	79	98	80	79	98	0	70-130	30
cis-1,2-Dichloroethene	40	35	89	40	35	86	3	70-130	30
Dibromomethane	40	33	82	40	33	84	2	70-130	30
Styrene	80	78	98	80	79	98	0	70-130	30
Dichlorodifluoromethane	40	38	94	40	38	95	1	30-146	30
Acetone	40	36	90	40	36	89	1	54-140	30
Carbon disulfide	40	34	84	40	34	84	0	59-130	30
2-Butanone	40	35	88	40	36	91	3	70-130	30
Vinyl acetate	40	30	76	40	24	60 Q	24	70-130	30
4-Methyl-2-pentanone	40	38	96	40	41	101	5	70-130	30
1,2,3-Trichloropropane	40	39	97	40	39	98	1	68-130	30
2-Hexanone	40	40	101	40	42	106	5	70-130	30
Bromochloromethane	40	33	83	40	33	82	1	70-130	30
2,2-Dichloropropane	40	33	82	40	33	82	0	70-130	30
1,2-Dibromoethane	40	37	93	40	37	93	0	70-130	30
1,3-Dichloropropane	40	39	96	40	39	96	0	69-130	30
1,1,1,2-Tetrachloroethane	40	37	93	40	37	93	0	70-130	30
Bromobenzene	40	37	94	40	38	94	0	70-130	30
n-Butylbenzene	40	44	109	40	43	108	1	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (LOW)
LCS Sample ID : WG1799615-3 Analysis Date : 07/03/23 07:14 File ID : V26230703A02
LCSD Sample ID : WG1799615-4 Analysis Date : 07/03/23 07:53 File ID : V26230703A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
sec-Butylbenzene	40	44	109	40	44	109	0	70-130	30
tert-Butylbenzene	40	41	103	40	42	104	1	70-130	30
o-Chlorotoluene	40	42	105	40	42	105	0	70-130	30
p-Chlorotoluene	40	42	106	40	42	106	0	70-130	30
1,2-Dibromo-3-chloropropane	40	31	77	40	33	82	6	68-130	30
Hexachlorobutadiene	40	37	92	40	40	100	8	67-130	30
Isopropylbenzene	40	44	110	40	42	106	4	70-130	30
p-Isopropyltoluene	40	42	105	40	42	105	0	70-130	30
Naphthalene	40	38	95	40	40	100	5	70-130	30
Acrylonitrile	40	39	98	40	38	95	3	70-130	30
n-Propylbenzene	40	44	110	40	44	110	0	70-130	30
1,2,3-Trichlorobenzene	40	32	81	40	34	86	6	70-130	30
1,2,4-Trichlorobenzene	40	38	96	40	41	101	5	70-130	30
1,3,5-Trimethylbenzene	40	42	106	40	43	106	0	70-130	30
1,2,4-Trimethylbenzene	40	42	106	40	42	106	0	70-130	30
1,4-Dioxane	2000	1600	78	2000	1600	79	1	65-136	30
p-Diethylbenzene	40	42	106	40	42	106	0	70-130	30
p-Ethyltoluene	40	43	108	40	43	108	0	70-130	30
1,2,4,5-Tetramethylbenzene	40	43	106	40	45	112	6	70-130	30
Ethyl ether	40	38	94	40	38	95	1	67-130	30
trans-1,4-Dichloro-2-butene	40	43	109	40	43	108	1	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (HIGH)
LCS Sample ID : WG1799618-3 Analysis Date : 07/03/23 07:14 File ID : V26230703A02
LCSD Sample ID : WG1799618-4 Analysis Date : 07/03/23 07:53 File ID : V26230703A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	2000	1700	83	2000	1700	83	0	70-130	30
1,1-Dichloroethane	2000	1900	97	2000	1900	96	1	70-130	30
Chloroform	2000	1800	88	2000	1800	88	0	70-130	30
Carbon tetrachloride	2000	1600	79	2000	1600	79	0	70-130	30
1,2-Dichloropropane	2000	1900	94	2000	1900	96	2	70-130	30
Dibromochloromethane	2000	1800	90	2000	1800	90	0	70-130	30
1,1,2-Trichloroethane	2000	1900	94	2000	2000	98	4	70-130	30
Tetrachloroethene	2000	1900	92	2000	1800	91	1	70-130	30
Chlorobenzene	2000	1900	96	2000	1900	95	1	70-130	30
Trichlorofluoromethane	2000	1700	85	2000	1600	82	4	70-139	30
1,2-Dichloroethane	2000	1800	88	2000	1800	87	1	70-130	30
1,1,1-Trichloroethane	2000	1800	89	2000	1800	88	1	70-130	30
Bromodichloromethane	2000	1700	86	2000	1800	89	3	70-130	30
trans-1,3-Dichloropropene	2000	1800	89	2000	1900	94	5	70-130	30
cis-1,3-Dichloropropene	2000	1800	88	2000	1800	88	0	70-130	30
1,1-Dichloropropene	2000	1900	97	2000	1900	97	0	70-130	30
Bromoform	2000	1700	84	2000	1600	82	2	70-130	30
1,1,2,2-Tetrachloroethane	2000	2100	103	2000	2000	99	4	70-130	30
Benzene	2000	1800	92	2000	1800	92	0	70-130	30
Toluene	2000	1900	94	2000	2000	99	5	70-130	30
Ethylbenzene	2000	2000	102	2000	2000	102	0	70-130	30
Chloromethane	2000	2100	106	2000	2100	107	1	52-130	30
Bromomethane	2000	1800	92	2000	1800	90	2	57-147	30
Vinyl chloride	2000	2000	99	2000	2000	99	0	67-130	30
Chloroethane	2000	2000	102	2000	2000	99	3	50-151	30
1,1-Dichloroethene	2000	1800	89	2000	1800	90	1	65-135	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (HIGH)
LCS Sample ID : WG1799618-3 Analysis Date : 07/03/23 07:14 File ID : V26230703A02
LCSD Sample ID : WG1799618-4 Analysis Date : 07/03/23 07:53 File ID : V26230703A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
trans-1,2-Dichloroethene	2000	1800	89	2000	1800	89	0	70-130	30
Trichloroethene	2000	1800	91	2000	1900	97	6	70-130	30
1,2-Dichlorobenzene	2000	1900	96	2000	1900	96	0	70-130	30
1,3-Dichlorobenzene	2000	1900	97	2000	1900	97	0	70-130	30
1,4-Dichlorobenzene	2000	1900	96	2000	1900	96	0	70-130	30
Methyl tert butyl ether	2000	1800	91	2000	1800	92	1	66-130	30
p/m-Xylene	4000	3900	98	4000	3900	98	0	70-130	30
o-Xylene	4000	3900	98	4000	3900	98	0	70-130	30
cis-1,2-Dichloroethene	2000	1800	89	2000	1700	86	3	70-130	30
Dibromomethane	2000	1700	82	2000	1700	84	2	70-130	30
Styrene	4000	3900	98	4000	3900	98	0	70-130	30
Dichlorodifluoromethane	2000	1900	94	2000	1900	95	1	30-146	30
Acetone	2000	1800	90	2000	1800	89	1	54-140	30
Carbon disulfide	2000	1700	84	2000	1700	84	0	59-130	30
2-Butanone	2000	1800	88	2000	1800	91	3	70-130	30
Vinyl acetate	2000	1500	76	2000	1200	60 Q	24	70-130	30
4-Methyl-2-pentanone	2000	1900	96	2000	2000	101	5	70-130	30
1,2,3-Trichloropropane	2000	2000	97	2000	2000	98	1	68-130	30
2-Hexanone	2000	2000	101	2000	2100	106	5	70-130	30
Bromochloromethane	2000	1700	83	2000	1700	82	1	70-130	30
2,2-Dichloropropane	2000	1600	82	2000	1600	82	0	70-130	30
1,2-Dibromoethane	2000	1900	93	2000	1900	93	0	70-130	30
1,3-Dichloropropane	2000	1900	96	2000	1900	96	0	69-130	30
1,1,1,2-Tetrachloroethane	2000	1900	93	2000	1900	93	0	70-130	30
Bromobenzene	2000	1900	94	2000	1900	94	0	70-130	30
n-Butylbenzene	2000	2200	109	2000	2200	108	1	70-130	30

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Partner Engineering & Science, Inc. Lab Number : L2335541
Project Name : AVANT GARDNER Project Number : ES22-387153
Matrix (Level) : SOIL (HIGH)
LCS Sample ID : WG1799618-3 Analysis Date : 07/03/23 07:14 File ID : V26230703A02
LCSD Sample ID : WG1799618-4 Analysis Date : 07/03/23 07:53 File ID : V26230703A03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
sec-Butylbenzene	2000	2200	109	2000	2200	109	0	70-130	30
tert-Butylbenzene	2000	2100	103	2000	2100	104	1	70-130	30
o-Chlorotoluene	2000	2100	105	2000	2100	105	0	70-130	30
p-Chlorotoluene	2000	2100	106	2000	2100	106	0	70-130	30
1,2-Dibromo-3-chloropropane	2000	1500	77	2000	1600	82	6	68-130	30
Hexachlorobutadiene	2000	1900	92	2000	2000	100	8	67-130	30
Isopropylbenzene	2000	2200	110	2000	2100	106	4	70-130	30
p-Isopropyltoluene	2000	2100	105	2000	2100	105	0	70-130	30
Naphthalene	2000	1900	95	2000	2000	100	5	70-130	30
Acrylonitrile	2000	2000	98	2000	1900	95	3	70-130	30
n-Propylbenzene	2000	2200	110	2000	2200	110	0	70-130	30
1,2,3-Trichlorobenzene	2000	1600	81	2000	1700	86	6	70-130	30
1,2,4-Trichlorobenzene	2000	1900	96	2000	2000	101	5	70-130	30
1,3,5-Trimethylbenzene	2000	2100	106	2000	2100	106	0	70-130	30
1,2,4-Trimethylbenzene	2000	2100	106	2000	2100	106	0	70-130	30
1,4-Dioxane	100000	78000	78	100000	79000	79	1	65-136	30
p-Diethylbenzene	2000	2100	106	2000	2100	106	0	70-130	30
p-Ethyltoluene	2000	2200	108	2000	2200	108	0	70-130	30
1,2,4,5-Tetramethylbenzene	2000	2100	106	2000	2200	112	6	70-130	30
Ethyl ether	2000	1900	94	2000	1900	95	1	67-130	30
trans-1,4-Dichloro-2-butene	2000	2200	109	2000	2200	108	1	70-130	30

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Instrument ID	: VOA131	**Analysis Date**	: 06/27/23 18:17:00
Sample No	: WG1797173-2	**Lab File ID**	: V31230627N01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1797173-2	197713	6.07	182401	9.60	108411	12.30
Upper Limit	395426	6.57	364802	10.10	216822	12.80
Lower Limit	98857	5.57	91201	9.10	54206	11.80
Sample ID						
WG1797173-3 LCS	195820	6.07	183211	9.60	114003	12.30
WG1797173-4 LCSD	189577	6.07	179366	9.61	113029	12.30
WG1797173-5 BLANK	149605	6.07	158727	9.61	92589	12.30
7-B1W (1.5-2)	153064	6.07	76766*	9.61	16982*	12.30

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: WG1799615-5	Date Collected	: NA
Client ID	: WG1799615-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 07/03/23 08:31
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V26230703A04	Instrument ID	: VOA126
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	5.0	2.3	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	U
67-66-3	Chloroform	ND	1.5	0.14	U
56-23-5	Carbon tetrachloride	ND	1.0	0.23	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	U
124-48-1	Dibromochloromethane	ND	1.0	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.27	U
127-18-4	Tetrachloroethene	ND	0.50	0.20	U
108-90-7	Chlorobenzene	ND	0.50	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.0	0.70	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	U
75-27-4	Bromodichloromethane	ND	0.50	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.27	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
75-25-2	Bromoform	ND	4.0	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.17	U
108-88-3	Toluene	ND	1.0	0.54	U
100-41-4	Ethylbenzene	ND	1.0	0.14	U
74-87-3	Chloromethane	ND	4.0	0.93	U
74-83-9	Bromomethane	ND	2.0	0.58	U
75-01-4	Vinyl chloride	ND	1.0	0.34	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: WG1799615-5	Date Collected	: NA
Client ID	: WG1799615-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 07/03/23 08:31
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V26230703A04	Instrument ID	: VOA126
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	2.0	0.45	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.14	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U
179601-23-1	p/m-Xylene	ND	2.0	0.56	U
95-47-6	o-Xylene	ND	1.0	0.29	U
1330-20-7	Xylenes, Total	ND	1.0	0.29	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	U
540-59-0	1,2-Dichloroethene, Total	ND	1.0	0.14	U
74-95-3	Dibromomethane	ND	2.0	0.24	U
100-42-5	Styrene	ND	1.0	0.20	U
75-71-8	Dichlorodifluoromethane	ND	10	0.92	U
67-64-1	Acetone	ND	10	4.8	U
75-15-0	Carbon disulfide	ND	10	4.6	U
78-93-3	2-Butanone	ND	10	2.2	U
108-05-4	Vinyl acetate	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.13	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.0	0.20	U
594-20-7	2,2-Dichloropropane	ND	2.0	0.20	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: WG1799615-5	Date Collected	: NA
Client ID	: WG1799615-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 07/03/23 08:31
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V26230703A04	Instrument ID	: VOA126
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	U
142-28-9	1,3-Dichloropropane	ND	2.0	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
108-86-1	Bromobenzene	ND	2.0	0.14	U
104-51-8	n-Butylbenzene	ND	1.0	0.17	U
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U
98-06-6	tert-Butylbenzene	ND	2.0	0.12	U
95-49-8	o-Chlorotoluene	ND	2.0	0.19	U
106-43-4	p-Chlorotoluene	ND	2.0	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	1.0	U
87-68-3	Hexachlorobutadiene	ND	4.0	0.17	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.11	U
91-20-3	Naphthalene	ND	4.0	0.65	U
107-13-1	Acrylonitrile	ND	4.0	1.2	U
103-65-1	n-Propylbenzene	ND	1.0	0.17	U
87-61-6	1,2,3-Trichlorobenzene	0.46	2.0	0.32	J
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.27	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.19	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.33	U
123-91-1	1,4-Dioxane	ND	80	35.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.18	U
622-96-8	p-Ethyltoluene	ND	2.0	0.38	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.19	U
60-29-7	Ethyl ether	ND	2.0	0.34	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Lab ID	: WG1799615-5	**Date Collected**	: NA
Client ID	: WG1799615-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 07/03/23 08:31
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: AJK
Lab File ID	: V26230703A04	**Instrument ID**	: VOA126
Sample Amount	: 5.0 g	**GC Column**	: RTX-VMS
Level	: LOW	**%Solids**	: NA
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	1.4	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: WG1799631-5	Date Collected	: NA
Client ID	: WG1799631-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 07/01/23 15:06
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V10230701C05	Instrument ID	: VOA110
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	5.0	2.3	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	U
67-66-3	Chloroform	ND	1.5	0.14	U
56-23-5	Carbon tetrachloride	ND	1.0	0.23	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	U
124-48-1	Dibromochloromethane	ND	1.0	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.27	U
127-18-4	Tetrachloroethene	ND	0.50	0.20	U
108-90-7	Chlorobenzene	ND	0.50	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.0	0.70	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	U
75-27-4	Bromodichloromethane	ND	0.50	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.27	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.16	U
563-58-6	1,1-Dichloropropene	ND	0.50	0.16	U
75-25-2	Bromoform	ND	4.0	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.17	U
108-88-3	Toluene	ND	1.0	0.54	U
100-41-4	Ethylbenzene	ND	1.0	0.14	U
74-87-3	Chloromethane	ND	4.0	0.93	U
74-83-9	Bromomethane	2.0	2.0	0.58	
75-01-4	Vinyl chloride	ND	1.0	0.34	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: WG1799631-5	Date Collected	: NA
Client ID	: WG1799631-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 07/01/23 15:06
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V10230701C05	Instrument ID	: VOA110
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	2.0	0.45	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.14	U
79-01-6	Trichloroethene	ND	0.50	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U
179601-23-1	p/m-Xylene	ND	2.0	0.56	U
95-47-6	o-Xylene	ND	1.0	0.29	U
1330-20-7	Xylenes, Total	ND	1.0	0.29	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	U
540-59-0	1,2-Dichloroethene, Total	ND	1.0	0.14	U
74-95-3	Dibromomethane	ND	2.0	0.24	U
100-42-5	Styrene	ND	1.0	0.20	U
75-71-8	Dichlorodifluoromethane	ND	10	0.92	U
67-64-1	Acetone	ND	10	4.8	U
75-15-0	Carbon disulfide	ND	10	4.6	U
78-93-3	2-Butanone	ND	10	2.2	U
108-05-4	Vinyl acetate	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.13	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.0	0.20	U
594-20-7	2,2-Dichloropropane	ND	2.0	0.20	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: WG1799631-5	Date Collected	: NA
Client ID	: WG1799631-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 07/01/23 15:06
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V10230701C05	Instrument ID	: VOA110
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	U
142-28-9	1,3-Dichloropropane	ND	2.0	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	U
108-86-1	Bromobenzene	ND	2.0	0.14	U
104-51-8	n-Butylbenzene	ND	1.0	0.17	U
135-98-8	sec-Butylbenzene	ND	1.0	0.15	U
98-06-6	tert-Butylbenzene	ND	2.0	0.12	U
95-49-8	o-Chlorotoluene	ND	2.0	0.19	U
106-43-4	p-Chlorotoluene	ND	2.0	0.11	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	1.0	U
87-68-3	Hexachlorobutadiene	ND	4.0	0.17	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.11	U
91-20-3	Naphthalene	ND	4.0	0.65	U
107-13-1	Acrylonitrile	ND	4.0	1.2	U
103-65-1	n-Propylbenzene	ND	1.0	0.17	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.32	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.27	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.19	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.33	U
123-91-1	1,4-Dioxane	ND	80	35.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.18	U
622-96-8	p-Ethyltoluene	ND	2.0	0.38	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.19	U
60-29-7	Ethyl ether	ND	2.0	0.34	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: WG1799631-5	Date Collected	: NA
Client ID	: WG1799631-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 07/01/23 15:06
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V10230701C05	Instrument ID	: VOA110
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	1.4	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: WG1799762-5	Date Collected	: NA
Client ID	: WG1799762-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 07/01/23 15:06
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V10230701C05	Instrument ID	: VOA110
Sample Amount	: 15.0 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: NA
Extract Volume (MeOH)	: 15 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	250	110	U
75-34-3	1,1-Dichloroethane	ND	50	7.2	U
67-66-3	Chloroform	ND	75	7.0	U
56-23-5	Carbon tetrachloride	ND	50	12.	U
78-87-5	1,2-Dichloropropane	ND	50	6.2	U
124-48-1	Dibromochloromethane	ND	50	7.0	U
79-00-5	1,1,2-Trichloroethane	ND	50	13.	U
127-18-4	Tetrachloroethene	ND	25	9.8	U
108-90-7	Chlorobenzene	ND	25	6.4	U
75-69-4	Trichlorofluoromethane	ND	200	35.	U
107-06-2	1,2-Dichloroethane	ND	50	13.	U
71-55-6	1,1,1-Trichloroethane	ND	25	8.4	U
75-27-4	Bromodichloromethane	ND	25	5.4	U
10061-02-6	trans-1,3-Dichloropropene	ND	50	14.	U
10061-01-5	cis-1,3-Dichloropropene	ND	25	7.9	U
542-75-6	1,3-Dichloropropene, Total	ND	25	7.9	U
563-58-6	1,1-Dichloropropene	ND	25	8.0	U
75-25-2	Bromoform	ND	200	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	8.3	U
71-43-2	Benzene	ND	25	8.3	U
108-88-3	Toluene	ND	50	27.	U
100-41-4	Ethylbenzene	ND	50	7.0	U
74-87-3	Chloromethane	ND	200	47.	U
74-83-9	Bromomethane	99	100	29.	J
75-01-4	Vinyl chloride	ND	50	17.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: WG1799762-5	Date Collected	: NA
Client ID	: WG1799762-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 07/01/23 15:06
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V10230701C05	Instrument ID	: VOA110
Sample Amount	: 15.0 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: NA
Extract Volume (MeOH)	: 15 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-00-3	Chloroethane	ND	100	23.	U
75-35-4	1,1-Dichloroethene	ND	50	12.	U
156-60-5	trans-1,2-Dichloroethene	ND	75	6.8	U
79-01-6	Trichloroethene	ND	25	6.8	U
95-50-1	1,2-Dichlorobenzene	ND	100	7.2	U
541-73-1	1,3-Dichlorobenzene	ND	100	7.4	U
106-46-7	1,4-Dichlorobenzene	ND	100	8.6	U
1634-04-4	Methyl tert butyl ether	ND	100	10.	U
179601-23-1	p/m-Xylene	ND	100	28.	U
95-47-6	o-Xylene	ND	50	14.	U
1330-20-7	Xylenes, Total	ND	50	14.	U
156-59-2	cis-1,2-Dichloroethene	ND	50	8.8	U
540-59-0	1,2-Dichloroethene, Total	ND	50	6.8	U
74-95-3	Dibromomethane	ND	100	12.	U
100-42-5	Styrene	ND	50	9.8	U
75-71-8	Dichlorodifluoromethane	ND	500	46.	U
67-64-1	Acetone	ND	500	240	U
75-15-0	Carbon disulfide	ND	500	230	U
78-93-3	2-Butanone	ND	500	110	U
108-05-4	Vinyl acetate	ND	500	110	U
108-10-1	4-Methyl-2-pentanone	ND	500	64.	U
96-18-4	1,2,3-Trichloropropane	ND	100	6.4	U
591-78-6	2-Hexanone	ND	500	59.	U
74-97-5	Bromochloromethane	ND	100	10.	U
594-20-7	2,2-Dichloropropane	ND	100	10.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: WG1799762-5	Date Collected	: NA
Client ID	: WG1799762-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 07/01/23 15:06
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V10230701C05	Instrument ID	: VOA110
Sample Amount	: 15.0 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: NA
Extract Volume (MeOH)	: 15 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
106-93-4	1,2-Dibromoethane	ND	50	14.	U
142-28-9	1,3-Dichloropropane	ND	100	8.4	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	6.6	U
108-86-1	Bromobenzene	ND	100	7.2	U
104-51-8	n-Butylbenzene	ND	50	8.4	U
135-98-8	sec-Butylbenzene	ND	50	7.3	U
98-06-6	tert-Butylbenzene	ND	100	5.9	U
95-49-8	o-Chlorotoluene	ND	100	9.6	U
106-43-4	p-Chlorotoluene	ND	100	5.4	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	150	50.	U
87-68-3	Hexachlorobutadiene	ND	200	8.4	U
98-82-8	Isopropylbenzene	ND	50	5.4	U
99-87-6	p-Isopropyltoluene	ND	50	5.4	U
91-20-3	Naphthalene	ND	200	32.	U
107-13-1	Acrylonitrile	ND	200	58.	U
103-65-1	n-Propylbenzene	ND	50	8.6	U
87-61-6	1,2,3-Trichlorobenzene	ND	100	16.	U
120-82-1	1,2,4-Trichlorobenzene	ND	100	14.	U
108-67-8	1,3,5-Trimethylbenzene	ND	100	9.6	U
95-63-6	1,2,4-Trimethylbenzene	ND	100	17.	U
123-91-1	1,4-Dioxane	ND	4000	1800	U
105-05-5	p-Diethylbenzene	ND	100	8.8	U
622-96-8	p-Ethyltoluene	ND	100	19.	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	100	9.6	U
60-29-7	Ethyl ether	ND	100	17.	U

Results Summary
Form 1
Volatile Organics by EPA 5035

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Lab ID	: WG1799762-5	Date Collected	: NA
Client ID	: WG1799762-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 07/01/23 15:06
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: LAC
Lab File ID	: V10230701C05	Instrument ID	: VOA110
Sample Amount	: 15.0 g	GC Column	: RTX-VMS
Level	: HIGH	%Solids	: NA
Extract Volume (MeOH)	: 15 ml	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
110-57-6	trans-1,4-Dichloro-2-butene	ND	250	71.	U

Initial Calibration Summary
Form 6
Volatiles

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153
Instrument ID	: VOA104	**Ical Ref**	: ICAL19908
Calibration dates	: 04/07/23 16:16 04/07/23 21:00		

Calibration Files

0.5 =V04230407N03.D 1.0 =V04230407N05.D 2.0 =V04230407N07.D 4.0 =V04230407N09.D 20 =V04230407N10.D

40 =V04230407N11.D 100 =V04230407N12.D 200 =V04230407N13.D 300 =V04230407N14.D

		Compound	0.5	1.0	2.0	4.0	20	40	100	200	300	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------										
2)	TP	Dichlorodifluo		0.255	0.310	0.319	0.349	0.344	0.318	0.335	0.372	0.325	10.75
3)	TP	Chloromethane		0.306	0.345	0.357	0.358	0.354	0.322	0.341	0.383	0.346	6.85
4)	TC	Vinyl chloride		0.297	0.346	0.362	0.384	0.380	0.346	0.359	0.399	0.359	8.69
5)	TP	Bromomethane		0.215	0.291	0.286	0.266	0.261	0.233	0.246	0.267	0.258	9.89
6)	TP	Chloroethane		0.203	0.229	0.240	0.240	0.238	0.206	0.174		0.219	11.45
7)	TP	Trichlorofluor		0.424	0.508	0.521	0.579	0.573	0.530	0.569	0.632	0.542	11.42
8)	TP	Ethyl ether		0.101	0.101	0.119	0.125	0.127	0.120	0.129	0.137	0.120	10.68
10)	TC	1,1-Dichloroet		0.232	0.284	0.295	0.318	0.315	0.289	0.302	0.332	0.296	10.31
11)	TP	Carbon disulfide		1.063	1.117	1.097	1.122	1.105	0.993	1.016	1.095	1.076	4.47
12)	TP	Freon-113		0.276	0.320	0.329	0.376	0.372	0.339	0.351	0.379	0.343	10.15
14)	TP	Acrolein		0.015	0.024	0.023	0.025	0.029	0.026	0.028	0.030	0.025	17.78
15)	TP	Methylene chlo		0.392	0.358	0.372	0.343	0.340	0.304	0.320	0.345	0.347	8.02
17)	TP	Acetone			0.095	0.075	0.050	0.050	0.052	0.055	0.058	*L	0.9959
18)	TP	trans-1,2-Dich		0.252	0.312	0.336	0.346	0.342	0.309	0.322	0.351	0.321	9.92
19)	TP	Methyl acetate			0.063	0.082	0.103	0.117	0.114	0.131	0.135	*L	0.9961
20)	TP	Methyl tert butyl ether		0.593	0.612	0.673	0.667	0.698	0.640	0.679	0.713	0.659	6.28
21)	TP	tert-Butyl alc		0.020	0.021	0.023	0.023	0.025	0.023	0.025	0.026	0.023	9.04
22)	TP	Diisopropyl ether		0.784	0.842	0.914	0.926	0.945	0.868	0.917	0.978	0.897	6.93
23)	TP	1,1-Dichloroet		0.471	0.553	0.602	0.603	0.592	0.531	0.554	0.600	0.563	8.21
24)	TP	Halothane		0.212	0.260	0.269	0.284	0.281	0.254	0.263	0.286	0.263	9.04
25)	TP	Acrylonitrile				0.037	0.052	0.058	0.055	0.061	0.064	*L	0.9976
26)	TP	Ethyl tert-but		0.806	0.820	0.891	0.903	0.919	0.835	0.893	0.951	0.877	5.86
27)	TP	Vinyl acetate		0.655	0.582	0.485	0.485	0.574	0.509	0.531	0.561	0.548	10.52
28)	TP	cis-1,2-Dichlo		0.320	0.339	0.364	0.373	0.362	0.327	0.342	0.373	0.350	5.95
29)	TP	2,2-Dichloropr		0.437	0.513	0.526	0.541	0.541	0.476	0.492	0.535	0.507	7.31
30)	TP	Bromochloromet		0.143	0.155	0.171	0.174	0.172	0.156	0.162	0.173	0.163	6.79
31)	TP	Cyclohexane		0.415	0.497	0.496	0.545	0.535	0.483	0.498	0.544	0.502	8.49
32)	TC	Chloroform		0.519	0.576	0.624	0.604	0.608	0.544	0.555	0.599	0.579	6.34
33)	TP	Ethyl acetate			0.206	0.165	0.175	0.191	0.181	0.201	0.209	0.190	8.81
34)	TP	Carbon tetrach		0.391	0.462	0.487	0.510	0.510	0.464	0.481	0.533	0.480	9.05
35)	TP	Tetrahydrofuran		0.056	0.058	0.063	0.060	0.059	0.051	0.057	0.058	0.058	6.16
36)	S	Dibromofluoromethane	0.304	0.299	0.298	0.301	0.298	0.298	0.295	0.292	0.289	0.297	1.49
37)	TP	1,1,1-Trichloroethane	0.451	0.434	0.491	0.521	0.536	0.523	0.469	0.485	0.528	0.493	7.39
39)	TP	2-Butanone				0.064	0.088	0.090	0.082	0.094	0.098	0.086	14.21
40)	TP	1,1-Dichloropropene	0.361	0.331	0.405	0.435	0.452	0.445	0.404	0.418	0.457	0.412	10.34

Initial Calibration Summary
Form 6
Volatiles

Client	**: Partner Engineering & Science, Inc.**	**Lab Number**	**: L2335541**
Project Name	**: AVANT GARDNER**	**Project Number**	**: ES22-387153**
Instrument ID	**: VOA104**	**Ical Ref**	**: ICAL19908**
Calibration dates	**: 04/07/23 16:16 04/07/23 21:00**		

Calibration Files

0.5 =V04230407N03.D 1.0 =V04230407N05.D 2.0 =V04230407N07.D 4.0 =V04230407N09.D 20 =V04230407N10.D

40 =V04230407N11.D 100 =V04230407N12.D 200 =V04230407N13.D 300 =V04230407N14.D

		Compound	0.5	1.0	2.0	4.0	20	40	100	200	300	Avg	%RSD
41)	TP	Benzene	1.131	1.043	1.174	1.253	1.260	1.241	1.120	1.165	1.260	1.183	6.47
42)	TP	Tertiary-Amyl Methyl Ether		0.731	0.732	0.789	0.786	0.818	0.744	0.804	0.852	0.782	5.58
43)	S	1,2-Dichloroethane-d4	0.258	0.255	0.255	0.265	0.248	0.254	0.255	0.257	0.259	0.256	1.83
44)	TP	1,2-Dichloroet		0.343	0.355	0.384	0.383	0.385	0.351	0.373	0.401	0.372	5.44
47)	TP	Methyl cyclohe		0.434	0.513	0.529	0.604	0.587	0.536	0.568	0.630	0.550	11.17
48)	TP	Trichloroethene	0.342	0.296	0.328	0.363	0.377	0.361	0.331	0.350	0.383	0.348	7.80
50)	TP	Dibromomethane		0.153	0.167	0.191	0.193	0.196	0.180	0.196	0.211	0.186	9.94
51)	TC	1,2-Dichloropr		0.242	0.289	0.317	0.319	0.323	0.293	0.312	0.338	0.304	9.76
53)	TP	2-Chloroethyl				0.142	0.157	0.168	0.160	0.179	0.190	0.166	10.17
54)	TP	Bromodichloromethane	0.431	0.388	0.406	0.458	0.456	0.461	0.419	0.449	0.485	0.439	6.98
57)	TP	1,4-Dioxane		0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.002#	11.34
58)	TP	cis-1,3-Dichloropropene	0.384	0.399	0.438	0.493	0.513	0.526	0.486	0.524	0.568	0.481	12.85
59)	I	Chlorobenzene-d5	----------ISTD----------										
60)	S	Toluene-d8	1.323	1.315	1.315	1.308	1.290	1.276	1.269	1.246	1.227	1.285	2.61
61)	TC	Toluene		0.865	0.957	0.973	0.985	0.964	0.868	0.901	0.977	0.936	5.37
62)	TP	4-Methyl-2-pen			0.068	0.084	0.091	0.098	0.091	0.099	0.101	0.090	12.75
63)	TP	Tetrachloroethene	0.369	0.366	0.426	0.452	0.476	0.470	0.427	0.444	0.487	0.435	10.05
65)	TP	trans-1,3-Dich		0.413	0.459	0.525	0.555	0.564	0.513	0.537	0.571	0.517	10.67
67)	TP	Ethyl methacry			0.304	0.364	0.367	0.387	0.353	0.380	0.398	0.365	8.39
68)	TP	1,1,2-Trichlor		0.246	0.247	0.270	0.270	0.272	0.244	0.258	0.273	0.260	4.91
69)	TP	Chlorodibromomethane	0.365	0.340	0.366	0.410	0.418	0.429	0.394	0.420	0.452	0.399	9.02
70)	TP	1,3-Dichloropr		0.444	0.464	0.505	0.512	0.520	0.468	0.489	0.516	0.490	5.77
71)	TP	1,2-Dibromoethane	0.225	0.259	0.282	0.314	0.324	0.332	0.299	0.319	0.336	0.299	12.47
72)	TP	2-Hexanone				0.180	0.160	0.169	0.161	0.179	0.182	0.172	5.80
73)	TP	Chlorobenzene	1.042	0.990	1.091	1.155	1.165	1.148	1.039	1.092	1.178	1.100	6.01
74)	TC	Ethylbenzene		1.654	1.798	1.849	1.937	1.893	1.688	1.722	1.843	1.798	5.64
75)	TP	1,1,1,2-Tetrachloroethane	0.359	0.364	0.397	0.415	0.421	0.422	0.380	0.395	0.425	0.398	6.37
76)	TP	p/m Xylene	0.663	0.608	0.668	0.721	0.739	0.722	0.649	0.671	0.710	0.683	6.17
77)	TP	o Xylene	0.651	0.587	0.670	0.714	0.715	0.704	0.638	0.666	0.707	0.673	6.38
78)	TP	Styrene	1.037	0.950	0.996	1.102	1.162	1.148	1.032	1.062	1.109	1.067	6.59
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------										
80)	TP	Bromoform		0.368	0.392	0.440	0.475	0.496	0.466	0.511	0.545	0.462	12.86
82)	TP	Isopropylbenzene		2.731	3.239	3.410	3.590	3.510	3.190	3.354	3.670	3.337	8.84
83)	S	4-Bromofluorobenzene	0.842	0.843	0.844	0.864	0.840	0.848	0.847	0.859	0.867	0.850	1.19
84)	TP	Bromobenzene		0.757	0.824	0.881	0.914	0.917	0.839	0.909	0.995	0.879	8.18
85)	TP	n-Propylbenzene		3.256	3.791	4.128	4.367	4.282	3.868	4.017	4.301	4.001	9.14

Initial Calibration Summary
Form 6
Volatiles

Client	**: Partner Engineering & Science, Inc.**	**Lab Number**	**: L2335541**
Project Name	**: AVANT GARDNER**	**Project Number**	**: ES22-387153**
Instrument ID	**: VOA104**	**Ical Ref**	**: ICAL19908**
Calibration dates	**: 04/07/23 16:16 04/07/23 21:00**		

Calibration Files

0.5 =V04230407N03.D 1.0 =V04230407N05.D 2.0 =V04230407N07.D 4.0 =V04230407N09.D 20 =V04230407N10.D
40 =V04230407N11.D 100 =V04230407N12.D 200 =V04230407N13.D 300 =V04230407N14.D

	Compound	0.5	1.0	2.0	4.0	20	40	100	200	300	Avg	%RSD
86) TP	1,4-Dichlorobu		0.989	0.866	0.884	0.828	0.851	0.764	0.823	0.862	0.858	7.47
87) TP	1,1,2,2-Tetrachloroethane	0.702	0.674	0.683	0.728	0.710	0.759	0.673	0.730	0.766	0.714	4.85
88) TP	4-Ethyltoluene		2.763	3.187	3.406	3.602	3.520	3.161	3.333	3.594	3.321	8.49
89) TP	2-Chlorotoluene		2.099	2.346	2.411	2.490	2.437	2.172	2.304	2.429	2.336	5.89
90) TP	1,3,5-Trimethy		2.572	2.868	3.100	3.099	3.015	2.689	2.805	3.027	2.897	6.80
91) TP	1,2,3-Trichlor		0.489	0.511	0.545	0.526	0.543	0.488	0.535	0.562	0.525	5.15
92) TP	trans-1,4-Dich		0.130	0.144	0.173	0.184	0.179	0.166	0.187	0.200	0.170	13.69
93) TP	4-Chlorotoluene		2.356	2.377	2.573	2.525	2.481	2.250	2.388	2.611	2.445	5.02
94) TP	tert-Butylbenzene		1.962	2.352	2.499	2.655	2.610	2.361	2.495	2.690	2.453	9.57
97) TP	1,2,4-Trimethy		2.414	2.741	2.939	3.032	2.975	2.686	2.805	2.995	2.823	7.37
98) TP	sec-Butylbenzene		3.227	3.541	3.800	4.067	3.990	3.564	3.704	3.939	3.729	7.49
99) TP	p-Isopropyltol		2.595	3.074	3.323	3.539	3.463	3.080	3.219	3.429	3.215	9.46
100) TP	1,3-Dichlorobe		1.414	1.565	1.691	1.733	1.726	1.564	1.651	1.776	1.640	7.28
101) TP	1,4-Dichlorobe		1.545	1.711	1.813	1.758	1.727	1.572	1.660	1.783	1.696	5.71
102) TP	p-Diethylbenzene		1.618	1.804	2.005	2.167	2.115	1.896	1.991	2.133	1.966	9.52
103) TP	n-Butylbenzene		2.582	2.923	2.997	3.298	3.138	2.772	2.846	3.002	2.945	7.48
104) TP	1,2-Dichlorobe		1.350	1.493	1.606	1.616	1.607	1.457	1.548	1.665	1.543	6.72
105) TP	1,2,4,5-Tetram		2.557	2.842	3.126	3.316	3.269	2.948	3.138	3.359	3.069	8.90
106) TP	1,2-Dibromo-3-			0.088	0.106	0.111	0.122	0.113	0.126	0.132	0.114	12.87
107) TP	1,3,5-Trichlor		1.102	1.267	1.376	1.434	1.405	1.240	1.316	1.418	1.320	8.58
108) TP	Hexachlorobuta		0.565	0.621	0.700	0.743	0.722	0.619	0.681	0.761	0.677	10.14
109) TP	1,2,4-Trichlor		0.995	1.069	1.161	1.208	1.170	1.022	1.087	1.162	1.109	6.97
110) TP	Naphthalene		1.967	1.868	2.103	2.115	2.175	1.963	2.122	2.216	2.066	5.81
111) TP	1,2,3-Trichlor		0.880	0.937	1.011	1.029	1.025	0.895	0.974	1.030	0.973	6.32

Initial Calibration Summary
Form 6
Volatiles

Client	**: Partner Engineering & Science, Inc.**	**Lab Number**	**: L2335541**
Project Name	**: AVANT GARDNER**	**Project Number**	**: ES22-387153**
Instrument ID	**: VOA126**	**Ical Ref**	**: ICAL20045**
Calibration dates	**: 05/26/23 22:15 05/27/23 03:24**		

Calibration Files

L0 =V26230526N03.D L1 =V26230526N04.D L1.5=V26230526N05.D L2 =V26230526N06.D L3 =V26230526N07.D

L4 =V26230526N08.D L6 =V26230526N09.D L7 =V26230526N10.D L8 =V26230526N11.D

		Compound	L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------										
2)	TP	Dichlorodifluo		0.219	0.289	0.298	0.268	0.284	0.270	0.271	0.266	0.271	8.83
3)	TP	Chlorodifluoro		0.269	0.348	0.325	0.289	0.303	0.287	0.283	0.271	0.297	9.29
4)	TP	Chloromethane		0.321	0.373	0.346	0.298	0.313	0.291	0.305	0.306	0.319	8.59
5)	TC	Vinyl chloride		0.248	0.337	0.345	0.326	0.347	0.338	0.341	0.335	0.327	9.99
6)	TP	Bromomethane		0.165	0.222	0.221	0.188	0.192	0.190	0.198	0.198	0.197	9.48
7)	TP	Chloroethane		0.124	0.201	0.206	0.183	0.186	0.183	0.181	0.180	0.181	13.64
8)	TP	Trichlorofluor		0.335	0.437	0.444	0.426	0.446	0.430	0.427	0.430	0.422	8.56
9)	TP	Ethyl ether		0.108	0.117	0.122	0.118	0.117	0.116	0.122	0.116	0.117	3.66
11)	TC	1,1-Dichloroet		0.194	0.257	0.258	0.248	0.261	0.253	0.252	0.250	0.247	8.78
12)	TP	Carbon disulfide				1.068	0.881	0.910	0.870	0.861	0.856	0.908	8.90
13)	TP	Freon-113		0.207	0.284	0.304	0.282	0.296	0.288	0.283	0.286	0.278	10.76
14)	TP	Iodomethane		0.219	0.248	0.246	0.258	0.303	0.305	0.297	0.276	0.269	11.59
15)	TP	Acrolein		0.030	0.032	0.030	0.031	0.028	0.029	0.032	0.029	0.030	4.92
16)	TP	Allyl chloride		0.121	0.160	0.161	0.154	0.162	0.160	0.158	0.147	0.153	9.03
17)	TP	Methylene chlo		0.296	0.319	0.301	0.270	0.277	0.264	0.272	0.265	0.283	7.07
19)	TP	Acetone				0.084	0.064	0.055	0.054	0.055	0.053	*L	0.9995
20)	TP	trans-1,2-Dich		0.230	0.301	0.306	0.280	0.293	0.283	0.284	0.282	0.282	8.26
21)	TP	Methyl acetate		0.139	0.132	0.135	0.136	0.123	0.126	0.137	0.129	0.132	4.35
22)	TP	Hexane		0.336	0.442	0.445	0.425	0.447	0.432	0.425	0.425	0.422	8.49
23)	TP	Methyl tert butyl ether		0.584	0.637	0.657	0.650	0.639	0.635	0.666	0.631	0.637	3.89
24)	TP	tert-Butyl alc		0.022	0.023	0.023	0.026	0.023	0.024	0.026	0.023	0.024	6.32
25)	TP	Diisopropyl ether		0.758	0.908	0.921	0.878	0.893	0.872	0.891	0.869	0.874	5.71
26)	TP	1,1-Dichloroet		0.414	0.508	0.514	0.480	0.507	0.489	0.502	0.493	0.488	6.57
27)	TP	Halothane		0.167	0.223	0.235	0.220	0.234	0.225	0.226	0.228	0.220	9.91
28)	TP	Acrylonitrile		0.059	0.066	0.062	0.068	0.064	0.065	0.069	0.065	0.065	5.24
29)	TP	Ethyl tert-but		0.742	0.852	0.892	0.858	0.870	0.855	0.890	0.859	0.852	5.52
30)	TP	Vinyl acetate		0.379	0.371	0.409	0.402	0.414	0.390	0.457	0.397	0.402	6.54
31)	TP	cis-1,2-Dichlo		0.250	0.325	0.330	0.303	0.313	0.306	0.312	0.308	0.306	7.98
32)	TP	2,2-Dichloropr		0.338	0.435	0.449	0.425	0.453	0.444	0.454	0.456	0.432	9.13
33)	TP	Bromochloromet		0.120	0.146	0.144	0.138	0.140	0.135	0.137	0.131	0.137	6.10
34)	TP	Cyclohexane		0.376	0.511	0.521	0.490	0.513	0.503	0.492	0.502	0.488	9.57
35)	TC	Chloroform		0.420	0.519	0.524	0.491	0.514	0.498	0.507	0.497	0.496	6.62
36)	TP	Ethyl acetate		0.201	0.188	0.190	0.200	0.182	0.185	0.201	0.183	0.191	4.24
37)	TP	Carbon tetrach		0.309	0.413	0.428	0.411	0.442	0.430	0.431	0.434	0.412	10.45
38)	TP	Tetrahydrofuran		0.067	0.061	0.056	0.059	0.053	0.054	0.058	0.052	0.057	8.44

Initial Calibration Summary
Form 6
Volatiles

Client	**: Partner Engineering & Science, Inc.**	**Lab Number**	**: L2335541**
Project Name	**: AVANT GARDNER**	**Project Number**	**: ES22-387153**
Instrument ID	**: VOA126**	**Ical Ref**	**: ICAL20045**
Calibration dates	**: 05/26/23 22:15 05/27/23 03:24**		

Calibration Files

L0 =V26230526N03.D L1 =V26230526N04.D L1.5=V26230526N05.D L2 =V26230526N06.D L3 =V26230526N07.D

L4 =V26230526N08.D L6 =V26230526N09.D L7 =V26230526N10.D L8 =V26230526N11.D

		Compound	L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
39)	S	Dibromofluoromethane	0.278	0.280	0.282	0.283	0.286	0.283	0.287	0.287	0.285	0.283	1.13
40)	TP	1,1,1-Trichloroethane	0.335	0.339	0.452	0.465	0.434	0.462	0.451	0.456	0.457	0.428	12.22
42)	TP	2-Butanone		0.100	0.093	0.088	0.092	0.080	0.083	0.089	0.082	0.088	7.55
43)	TP	1,1-Dichloropropene	0.287	0.303	0.401	0.404	0.378	0.400	0.386	0.385	0.388	0.370	11.82
44)	TP	Heptane		0.215	0.293	0.284	0.280	0.288	0.288	0.286	0.295	0.279	9.35
45)	TP	Benzene	0.952	0.922	1.162	1.166	1.085	1.125	1.076	1.085	1.063	1.071	7.89
46)	TP	Tertiary-Amyl Methyl Ether		0.680	0.753	0.782	0.771	0.763	0.746	0.775	0.738	0.751	4.28
47)	S	1,2-Dichloroethane-d4	0.265	0.264	0.266	0.263	0.276	0.263	0.268	0.287	0.291	0.272	3.97
48)	TP	1,2-Dichloroet		0.334	0.358	0.364	0.346	0.347	0.343	0.358	0.348	0.350	2.80
51)	TP	Methyl cyclohe		0.377	0.514	0.542	0.505	0.528	0.516	0.506	0.520	0.501	10.26
52)	TP	Trichloroethene	0.247	0.255	0.322	0.327	0.302	0.316	0.311	0.311	0.316	0.301	9.71
54)	TP	Dibromomethane		0.139	0.158	0.161	0.156	0.154	0.152	0.159	0.153	0.154	4.35
55)	TC	1,2-Dichloropr		0.248	0.293	0.299	0.282	0.288	0.281	0.287	0.280	0.282	5.37
57)	TP	2-Chloroethyl		0.117	0.135	0.139	0.146	0.141	0.142	0.150	0.140	0.139	7.11
58)	TP	Bromodichloromethane	0.316	0.321	0.368	0.382	0.376	0.388	0.384	0.397	0.388	0.369	8.10
60)	TP	Methyl methacr		0.133	0.144	0.142	0.157	0.146	0.151	0.164	0.151	0.148	6.38
61)	TP	1,4-Dioxane		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002#	4.03
62)	TP	cis-1,3-Dichloropropene	0.354	0.350	0.409	0.433	0.440	0.456	0.451	0.467	0.455	0.424	10.40
63)	I	Chlorobenzene-d5	----------ISTD----------										
64)	TP	Octane		0.234	0.313	0.323	0.312	0.336	0.340	0.353	0.380	0.324	13.14
65)	S	Toluene-d8	1.258	1.255	1.256	1.259	1.242	1.256	1.255	1.248	1.268	1.255	0.58
66)	TC	Toluene		0.689	0.846	0.843	0.762	0.818	0.792	0.808	0.816	0.797	6.42
67)	TP	4-Methyl-2-pen		0.074	0.078	0.087	0.087	0.087	0.089	0.096	0.088	0.086	7.86
68)	TP	Tetrachloroethene	0.302	0.297	0.381	0.383	0.351	0.375	0.359	0.356	0.370	0.353	9.04
69)	TP	2-Nitropropane		0.049	0.050	0.049	0.050	0.050	0.053	0.061	0.056	0.052	8.16
71)	TP	trans-1,3-Dich		0.336	0.388	0.402	0.417	0.438	0.439	0.466	0.457	0.418	10.17
72)	TP	Methyl isothio		0.121	0.123	0.132	0.148	0.144	0.153	0.169	0.161	0.144	12.15
74)	TP	Ethyl methacry		0.278	0.314	0.329	0.350	0.349	0.352	0.380	0.362	0.339	9.36
75)	TP	1,1,2-Trichlor		0.174	0.202	0.203	0.200	0.202	0.197	0.206	0.200	0.198#	5.17
76)	TP	Chlorodibromomethane	0.245	0.237	0.275	0.289	0.298	0.311	0.312	0.329	0.323	0.291	11.31
77)	TP	1,3-Dichloropr		0.372	0.417	0.425	0.410	0.415	0.403	0.423	0.410	0.409	4.03
78)	TP	1,2-Dibromoethane	0.217	0.208	0.227	0.240	0.240	0.241	0.238	0.250	0.240	0.233	5.71
79)	TP	n-Butyl Acetate		0.340	0.366	0.365	0.397	0.378	0.386	0.421	0.388	0.380	6.32
80)	TP	2-Hexanone		0.151	0.148	0.153	0.168	0.155	0.157	0.168	0.155	0.157	4.73
81)	TP	Nonane		0.628	0.799	0.683	0.541	0.577	0.615	0.647	0.679	0.646	12.10
82)	TP	Chlorobenzene	0.829	0.793	0.938	0.953	0.873	0.918	0.888	0.899	0.894	0.887	5.71

Initial Calibration Summary
Form 6
Volatiles

Client	**: Partner Engineering & Science, Inc.**	**Lab Number**	**: L2335541**
Project Name	**: AVANT GARDNER**	**Project Number**	**: ES22-387153**
Instrument ID	**: VOA126**	**Ical Ref**	**: ICAL20045**
Calibration dates	**: 05/26/23 22:15 05/27/23 03:24**		

Calibration Files

L0 =V26230526N03.D L1 =V26230526N04.D L1.5=V26230526N05.D L2 =V26230526N06.D L3 =V26230526N07.D

L4 =V26230526N08.D L6 =V26230526N09.D L7 =V26230526N10.D L8 =V26230526N11.D

		Compound	L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
83)	TC	Ethylbenzene		1.280	1.606	1.615	1.471	1.570	1.491	1.470	1.461	1.496	7.20
84)	TP	1,1,1,2-Tetrachloroethane	0.260	0.270	0.322	0.325	0.321	0.340	0.333	0.345	0.345	0.318	9.88
85)	TP	p/m Xylene	0.515	0.508	0.634	0.630	0.579	0.623	0.597	0.597	0.605	0.588	7.92
86)	TP	o Xylene	0.484	0.478	0.577	0.603	0.558	0.597	0.584	0.597	0.596	0.564	8.68
87)	TP	Styrene	0.862	0.787	0.978	0.974	0.933	1.011	0.988	0.977	0.944	0.939	7.60
88)	I	1,4-Dichlorobenzene-d4	----------ISTD----------										
89)	TP	Bromoform		0.260	0.286	0.303	0.332	0.342	0.360	0.388	0.370	0.330	13.29
91)	TP	Isopropylbenzene		2.339	3.023	3.074	2.835	3.005	2.933	2.885	2.819	2.864	8.06
92)	S	4-Bromofluorobenzene	0.849	0.860	0.879	0.855	0.857	0.838	0.839	0.835	0.824	0.848	1.94
93)	TP	Bromobenzene		0.645	0.742	0.749	0.696	0.720	0.696	0.695	0.683	0.703	4.77
94)	TP	Decane			1.091	1.080	1.153	1.294	1.406	1.406	1.394	1.260	11.86
95)	TP	n-Propylbenzene		2.717	3.529	3.581	3.307	3.514	3.348	3.230	3.155	3.298	8.46
96)	TP	1,4-Dichlorobu		0.699	0.758	0.760	0.741	0.727	0.717	0.738	0.699	0.730	3.27
97)	TP	1,1,2,2-Tetrachloroethane	0.509	0.477	0.524	0.552	0.560	0.544	0.528	0.563	0.520	0.531	5.17
98)	TP	4-Ethyltoluene		2.281	2.873	2.954	2.738	2.925	2.806	2.727	2.707	2.751	7.69
99)	TP	2-Chlorotoluene		1.917	2.347	2.354	2.154	2.306	2.218	2.211	2.214	2.215	6.33
100)	TP	1,3,5-Trimethy		1.977	2.476	2.515	2.342	2.509	2.419	2.390	2.388	2.377	7.28
101)	TP	1,2,3-Trichlor		0.398	0.406	0.421	0.412	0.388	0.386	0.404	0.375	0.399	3.81
102)	TP	trans-1,4-Dich		0.135	0.154	0.162	0.178	0.175	0.180	0.194	0.183	0.170	11.16
103)	TP	4-Chlorotoluene		1.784	2.115	2.166	1.969	2.090	2.006	1.982	1.981	2.012	5.83
104)	TP	tert-Butylbenzene		1.679	2.170	2.238	2.074	2.197	2.119	2.125	2.124	2.091	8.33
107)	TP	1,2,4-Trimethy		1.903	2.341	2.431	2.272	2.435	2.382	2.348	2.324	2.305	7.42
108)	TP	Limonene		0.590	0.776	0.797	0.788	0.866	0.874	0.878	0.903	0.809	12.42
109)	TP	sec-Butylbenzene		2.422	3.177	3.259	3.052	3.243	3.137	3.073	3.043	3.051	8.76
110)	TP	p-Isopropyltol		2.147	2.704	2.810	2.629	2.858	2.791	2.704	2.687	2.666	8.35
111)	TP	1,3-Dichlorobe		1.208	1.427	1.402	1.309	1.392	1.364	1.348	1.357	1.351	5.04
112)	TP	1,4-Dichlorobe		1.277	1.423	1.437	1.306	1.367	1.333	1.316	1.328	1.349	4.19
113)	TP	trans-Decahydr		0.531	0.724	0.746	0.735	0.787	0.799	0.833	0.879	0.754	13.79
114)	TP	Undecane			0.974	0.989	1.144	1.352	1.433	1.306	1.139	1.191	14.96
115)	TP	p-Diethylbenzene		1.328	1.612	1.688	1.596	1.756	1.717	1.655	1.694	1.631	8.17
116)	TP	n-Butylbenzene		2.262	2.850	2.983	2.780	3.039	2.982	2.853	2.926	2.835	8.69
117)	TP	Hexachloroethane			0.422	0.449	0.466	0.517	0.522	0.548	0.557	0.497	10.44
118)	TP	1,2-Dichlorobe		1.104	1.255	1.291	1.212	1.265	1.225	1.239	1.234	1.228	4.56
119)	TP	cis-Decahydron		0.388	0.562	0.574	0.558	0.598	0.596	0.611	0.644	0.566	13.65
120)	TP	1,2,4,5-Tetram		1.877	2.215	2.382	2.295	2.456	2.403	2.339	2.304	2.284	7.90
121)	TP	1,2-Dibromo-3-			0.066	0.073	0.085	0.083	0.085	0.094	0.088	0.082	11.66

Initial Calibration Summary
Form 6
Volatiles

Client	**: Partner Engineering & Science, Inc.**	**Lab Number**	**: L2335541**
Project Name	**: AVANT GARDNER**	**Project Number**	**: ES22-387153**
Instrument ID	**: VOA126**	**Ical Ref**	**: ICAL20045**
Calibration dates	**: 05/26/23 22:15 05/27/23 03:24**		

Calibration Files

L0 =V26230526N03.D L1 =V26230526N04.D L1.5=V26230526N05.D L2 =V26230526N06.D L3 =V26230526N07.D

L4 =V26230526N08.D L6 =V26230526N09.D L7 =V26230526N10.D L8 =V26230526N11.D

	Compound	L0	L1	L1.5	L2	L3	L4	L6	L7	L8	Avg	%RSD
122) TP	1,3,5-Trichlor		0.835	0.946	0.971	0.898	0.950	0.928	0.879	0.892	0.912	4.88
123) TP	Nitrobenzene				0.011	0.015	0.014	0.018	0.025	0.025	*Q	0.9944
124) TP	Hexachlorobuta		0.345	0.448	0.476	0.439	0.463	0.435	0.409	0.404	0.427	9.67
125) TP	1,2,4-Trichlor		0.709	0.775	0.797	0.761	0.786	0.769	0.709	0.652	0.745	6.69
126) TP	Naphthalene		1.405	1.460	1.511	1.527	1.465	1.423	1.395	1.141	1.416	8.51
127) TP	1,2,3-Trichlor		0.606	0.653	0.664	0.621	0.624	0.578	0.512	0.376	*Q	0.9984

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541		
Project Name	: AVANT GARDNER	Project Number	: ES22-387153		
Instrument ID	: VOA131	Calibration Date	: 06/24/23 07:36		
Lab File ID	: V31230624A01	Init. Calib. Date(s)	: 03/28/23	03/28/23	
Sample No	: WG1797206-2	Init. Calib. Times	: 14:33	17:39	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	99	0
Dichlorodifluoromethane	0.219	0.222	-	-1.4	20	104	0
Chloromethane	0.236	0.301	-	-27.5*	20	138	-.02
Vinyl chloride	0.228	0.262	-	-14.9	20	120	0
Bromomethane	0.167	0.198	-	-18.6	20	132	0
Chloroethane	0.143	0.166	-	-16.1	20	113	0
Trichlorofluoromethane	0.4	0.353	-	11.8	20	91	0
Ethyl ether	0.113	0.106	-	6.2	20	98	0
1,1-Dichloroethene	0.214	0.217	-	-1.4	20	100	0
Carbon disulfide	0.719	0.772	-	-7.4	20	112	0
Freon-113	0.231	0.221	-	4.3	20	91	-.01
Acrolein	0.032	0.039	-	-21.9*	20	130	0
Methylene chloride	0.283	0.268	-	5.3	20	109	0
Acetone	40	46.394	-	-16	20	128	.01
trans-1,2-Dichloroethene	0.244	0.208	-	14.8	20	89	0
Methyl acetate	0.183	0.199	-	-8.7	20	129	0
Methyl tert-butyl ether	0.578	0.564	-	2.4	20	102	0
tert-Butyl alcohol	0.037	0.036	-	2.7	20	111	.04
Diisopropyl ether	0.655	0.737	-	-12.5	20	120	0
1,1-Dichloroethane	0.458	0.464	-	-1.3	20	110	0
Halothane	0.178	0.16	-	10.1	20	92	0
Acrylonitrile	0.077	0.084	-	-9.1	20	115	0
Ethyl tert-butyl ether	0.666	0.674	-	-1.2	20	105	0
Vinyl acetate	0.535	0.574	-	-7.3	20	113	0
cis-1,2-Dichloroethene	0.282	0.256	-	9.2	20	97	0
2,2-Dichloropropane	0.387	0.4	-	-3.4	20	109	0
Bromochloromethane	0.137	0.143	-	-4.4	20	111	0
Cyclohexane	0.389	0.348	-	10.5	20	90	0
Chloroform	0.477	0.451	-	5.5	20	105	0
Ethyl acetate	0.263	0.302	-	-14.8	20	127	0
Carbon tetrachloride	0.309	0.313	-	-1.3	20	105	0
Tetrahydrofuran	0.078	0.092	-	-17.9	20	136	0
Dibromofluoromethane	0.304	0.313	-	-3	20	103	0
1,1,1-Trichloroethane	0.357	0.385	-	-7.8	20	106	0
2-Butanone	0.142	0.136	-	4.2	20	102	0
1,1-Dichloropropene	40	31.748	-	20.6*	20	89	0
Benzene	0.873	0.829	-	5	20	96	0
tert-Amyl methyl ether	0.612	0.618	-	-1	20	107	0
1,2-Dichloroethane-d4	0.346	0.362	-	-4.6	20	105	0
1,2-Dichloroethane	0.354	0.379	-	-7.1	20	115	0
Methyl cyclohexane	0.386	0.351	-	9.1	20	96	0
Trichloroethene	40	33.922	-	15.2	20	96	0
Dibromomethane	0.163	0.163	-	0	20	107	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.		Lab Number	: L2335541	
Project Name	: AVANT GARDNER		Project Number	: ES22-387153	
Instrument ID	: VOA131		Calibration Date	: 06/24/23 07:36	
Lab File ID	: V31230624A01		Init. Calib. Date(s)	: 03/28/23	03/28/23
Sample No	: WG1797206-2		Init. Calib. Times	: 14:33	17:39
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.24	0.219	-	8.7	20	94	0
2-Chloroethyl vinyl ether	0.148	0.141	-	4.7	20	98	0
Bromodichloromethane	0.319	0.335	-	-5	20	105	0
1,4-Dioxane	0.00313	0.00304*	-	2.9	20	95	.03
cis-1,3-Dichloropropene	0.365	0.356	-	2.5	20	96	0
Chlorobenzene-d5	1	1	-	0	20	121	0
Toluene-d8	1.303	1.25	-	4.1	20	115	0
Toluene	0.758	0.641	-	15.4	20	110	0
4-Methyl-2-pentanone	0.115	0.096	-	16.5	20	104	0
Tetrachloroethene	40	32.914	-	17.7	20	115	0
trans-1,3-Dichloropropene	0.45	0.389	-	13.6	20	105	0
Ethyl methacrylate	0.377	0.318	-	15.6	20	105	0
1,1,2-Trichloroethane	0.222	0.188*	-	15.3	20	105	0
Chlorodibromomethane	40	33.963	-	15.1	20	113	0
1,3-Dichloropropane	0.469	0.383	-	18.3	20	103	0
1,2-Dibromoethane	40	31.353	-	21.6*	20	108	0
2-Hexanone	0.243	0.209	-	14	20	113	0
Chlorobenzene	0.836	0.753	-	9.9	20	112	0
Ethylbenzene	1.461	1.312	-	10.2	20	114	0
1,1,1,2-Tetrachloroethane	40	36.069	-	9.8	20	121	0
p/m Xylene	0.545	0.526	-	3.5	20	117	0
o Xylene	0.535	0.519	-	3	20	119	0
Styrene	0.931	0.895	-	3.9	20	117	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	137	0
Bromoform	40	35.035	-	12.4	20	139	0
Isopropylbenzene	2.674	2.168	-	18.9	20	113	0
4-Bromofluorobenzene	0.919	0.85	-	7.5	20	124	0
Bromobenzene	0.676	0.565	-	16.4	20	119	0
n-Propylbenzene	3.21	2.706	-	15.7	20	117	0
1,4-Dichlorobutane	0.808	0.68	-	15.8	20	121	0
1,1,2,2-Tetrachloroethane	0.648	0.469	-	27.6*	20	99	0
4-Ethyltoluene	2.637	2.344	-	11.1	20	126	0
2-Chlorotoluene	1.958	1.655	-	15.5	20	119	0
1,3,5-Trimethylbenzene	2.224	2.033	-	8.6	20	129	0
1,2,3-Trichloropropane	0.558	0.435	-	22*	20	112	0
trans-1,4-Dichloro-2-buten	0.206	0.183	-	11.2	20	122	0
4-Chlorotoluene	2.029	1.739	-	14.3	20	122	0
tert-Butylbenzene	1.981	1.669	-	15.7	20	118	0
1,2,4-Trimethylbenzene	2.244	1.994	-	11.1	20	127	0
sec-Butylbenzene	2.959	2.495	-	15.7	20	117	0
p-Isopropyltoluene	2.542	2.243	-	11.8	20	125	0
1,3-Dichlorobenzene	1.353	1.198	-	11.5	20	128	0
1,4-Dichlorobenzene	1.368	1.213	-	11.3	20	130	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541		
Project Name	: AVANT GARDNER	Project Number	: ES22-387153		
Instrument ID	: VOA131	Calibration Date	: 06/24/23 07:36		
Lab File ID	: V31230624A01	Init. Calib. Date(s)	: 03/28/23	03/28/23	
Sample No	: WG1797206-2	Init. Calib. Times	: 14:33	17:39	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.51	1.363	-	9.7	20	128	0
n-Butylbenzene	2.291	2.018	-	11.9	20	123	0
1,2-Dichlorobenzene	1.29	1.152	-	10.7	20	128	0
1,2,4,5-Tetramethylbenzene	2.382	1.584	-	33.5*	20	93	0
1,2-Dibromo-3-chloropropan	0.115	0.095	-	17.4	20	111	0
1,3,5-Trichlorobenzene	0.972	0.891	-	8.3	20	132	0
Hexachlorobutadiene	0.451	0.424	-	6	20	132	-.01
1,2,4-Trichlorobenzene	0.942	0.78	-	17.2	20	120	0
Naphthalene	2.477	1.888	-	23.8*	20	109	0
1,2,3-Trichlorobenzene	0.922	0.754	-	18.2	20	118	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541		
Project Name	: AVANT GARDNER	Project Number	: ES22-387153		
Instrument ID	: VOA104	Calibration Date	: 06/26/23 11:31		
Lab File ID	: V04230626A03	Init. Calib. Date(s)	: 04/07/23	04/07/23	
Sample No	: WG1797141-2	Init. Calib. Times	: 16:16	21:00	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	82	0
Dichlorodifluoromethane	0.325	0.181	-	44.3*	20	43	0
Chloromethane	0.346	0.466	-	-34.7*	20	107	0
Vinyl chloride	0.359	0.288	-	19.8	20	62	0
Bromomethane	0.258	0.16	-	38*	20	50	0
Chloroethane	0.219	0.13	-	40.6*	20	45	0
Trichlorofluoromethane	0.542	0.41	-	24.4*	20	58	0
Ethyl ether	0.12	0.107	-	10.8	20	68	0
1,1-Dichloroethene	0.296	0.288	-	2.7	20	75	0
Carbon disulfide	1.076	0.986	-	8.4	20	73	0
Freon-113	0.343	0.336	-	2	20	74	0
Acrolein	0.025	0.033	-	-32*	20	93	-.01
Methylene chloride	0.347	0.306	-	11.8	20	73	0
Acetone	40	35.619	-	11	20	83	-.02
trans-1,2-Dichloroethene	0.321	0.319	-	0.6	20	76	0
Methyl acetate	40	43.218	-	-8	20	94	0
Methyl tert-butyl ether	0.659	0.599	-	9.1	20	70	0
tert-Butyl alcohol	0.023	0.026	-	-13	20	85	-.01
Diisopropyl ether	0.897	1.32	-	-47.2*	20	114	0
1,1-Dichloroethane	0.563	0.701	-	-24.5*	20	97	0
Halothane	0.263	0.271	-	-3	20	79	0
Acrylonitrile	40	50.343	-	-25.9*	20	105	0
Ethyl tert-butyl ether	0.877	1.096	-	-25*	20	97	-.01
Vinyl acetate	0.548	0.455	-	17	20	65	0
cis-1,2-Dichloroethene	0.35	0.335	-	4.3	20	76	-.01
2,2-Dichloropropane	0.507	0.471	-	7.1	20	71	0
Bromochloromethane	0.163	0.151	-	7.4	20	72	0
Cyclohexane	0.502	0.743	-	-48*	20	113	0
Chloroform	0.579	0.534	-	7.8	20	72	-.01
Ethyl acetate	0.19	0.217	-	-14.2	20	92	0
Carbon tetrachloride	0.48	0.443	-	7.7	20	71	0
Tetrahydrofuran	0.058	0.081	-	-39.7*	20	111	-.02
Dibromofluoromethane	0.297	0.28	-	5.7	20	77	0
1,1,1-Trichloroethane	0.493	0.48	-	2.6	20	75	0
2-Butanone	0.086	0.09	-	-4.7	20	81	0
1,1-Dichloropropene	0.412	0.421	-	-2.2	20	77	0
Benzene	1.183	1.135	-	4.1	20	75	0
tert-Amyl methyl ether	0.782	0.696	-	11	20	69	-.01
1,2-Dichloroethane-d4	0.256	0.237	-	7.4	20	76	0
1,2-Dichloroethane	0.372	0.381	-	-2.4	20	81	0
Methyl cyclohexane	0.55	0.526	-	4.4	20	73	0
Trichloroethene	0.348	0.343	-	1.4	20	78	0
Dibromomethane	0.186	0.151	-	18.8	20	63	-.02

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.		Lab Number	: L2335541	
Project Name	: AVANT GARDNER		Project Number	: ES22-387153	
Instrument ID	: VOA104		Calibration Date	: 06/26/23 11:31	
Lab File ID	: V04230626A03		Init. Calib. Date(s)	: 04/07/23	04/07/23
Sample No	: WG1797141-2		Init. Calib. Times	: 16:16	21:00
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.304	0.37	-	-21.7*	20	93	-.01
2-Chloroethyl vinyl ether	0.166	0.161	-	3	20	78	0
Bromodichloromethane	0.439	0.396	-	9.8	20	70	-.01
1,4-Dioxane	0.00228	0.00213*	-	6.6	20	69	-.04
cis-1,3-Dichloropropene	0.481	0.457	-	5	20	71	-.03
Chlorobenzene-d5	1	1	-	0	20	83	0
Toluene-d8	1.285	1.261	-	1.9	20	82	0
Toluene	0.936	0.869	-	7.2	20	75	0
4-Methyl-2-pentanone	0.09	0.116	-	-28.9*	20	98	0
Tetrachloroethene	0.435	0.445	-	-2.3	20	78	0
trans-1,3-Dichloropropene	0.517	0.475	-	8.1	20	70	-.04
Ethyl methacrylate	0.365	0.335	-	8.2	20	72	0
1,1,2-Trichloroethane	0.26	0.228	-	12.3	20	69	-.02
Chlorodibromomethane	0.399	0.364	-	8.8	20	70	-.01
1,3-Dichloropropane	0.49	0.437	-	10.8	20	70	-.01
1,2-Dibromoethane	0.299	0.278	-	7	20	69	-.02
2-Hexanone	0.172	0.19	-	-10.5	20	93	0
Chlorobenzene	1.1	1.039	-	5.5	20	75	0
Ethylbenzene	1.798	1.724	-	4.1	20	75	-.01
1,1,1,2-Tetrachloroethane	0.398	0.389	-	2.3	20	76	0
p/m Xylene	0.683	0.684	-	-0.1	20	78	-.02
o Xylene	0.673	0.66	-	1.9	20	77	-.01
Styrene	1.067	1.058	-	0.8	20	76	-.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	83	0
Bromoform	0.462	0.394	-	14.7	20	66	-.01
Isopropylbenzene	3.337	3.317	-	0.6	20	79	-.01
4-Bromofluorobenzene	0.85	0.846	-	0.5	20	83	0
Bromobenzene	0.879	0.825	-	6.1	20	75	-.01
n-Propylbenzene	4.001	3.734	-	6.7	20	73	-.02
1,4-Dichlorobutane	0.858	1.049	-	-22.3*	20	103	-.02
1,1,2,2-Tetrachloroethane	0.714	0.557	-	22*	20	61	0
4-Ethyltoluene	3.321	3.29	-	0.9	20	78	-.02
2-Chlorotoluene	2.336	2.137	-	8.5	20	73	-.02
1,3,5-Trimethylbenzene	2.897	2.761	-	4.7	20	76	0
1,2,3-Trichloropropane	0.525	0.412	-	21.5*	20	63	-.01
trans-1,4-Dichloro-2-buten	0.17	0.203	-	-19.4	20	94	-.03
4-Chlorotoluene	2.445	2.177	-	11	20	73	-.02
tert-Butylbenzene	2.453	2.353	-	4.1	20	75	0
1,2,4-Trimethylbenzene	2.823	2.684	-	4.9	20	75	-.01
sec-Butylbenzene	3.729	3.589	-	3.8	20	75	0
p-Isopropyltoluene	3.215	3.062	-	4.8	20	74	0
1,3-Dichlorobenzene	1.64	1.545	-	5.8	20	75	-.02
1,4-Dichlorobenzene	1.696	1.557	-	8.2	20	75	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541	
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153	
Instrument ID	: VOA104	**Calibration Date**	: 06/26/23 11:31	
Lab File ID	: V04230626A03	**Init. Calib. Date(s)**	: 04/07/23	04/07/23
Sample No	: WG1797141-2	**Init. Calib. Times**	: 16:16	21:00
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.966	1.845	-	6.2	20	73	0
n-Butylbenzene	2.945	2.55	-	13.4	20	68	-.01
1,2-Dichlorobenzene	1.543	1.417	-	8.2	20	73	0
1,2,4,5-Tetramethylbenzene	3.069	2.965	-	3.4	20	75	0
1,2-Dibromo-3-chloropropan	0.114	0.098	-	14	20	67	-.02
1,3,5-Trichlorobenzene	1.32	1.203	-	8.9	20	71	0
Hexachlorobutadiene	0.677	0.641	-	5.3	20	74	0
1,2,4-Trichlorobenzene	1.109	0.979	-	11.7	20	70	-.01
Naphthalene	2.066	1.772	-	14.2	20	68	-.02
1,2,3-Trichlorobenzene	0.973	0.845	-	13.2	20	69	-.01

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541		
Project Name	: AVANT GARDNER	Project Number	: ES22-387153		
Instrument ID	: VOA131	Calibration Date	: 06/27/23 18:17		
Lab File ID	: V31230627N01	Init. Calib. Date(s)	: 03/28/23	03/28/23	
Sample No	: WG1797169-2	Init. Calib. Times	: 14:33	17:39	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	108	0
Dichlorodifluoromethane	0.219	0.124	-	43.4*	20	63	0
Chloromethane	0.236	0.224	-	5.1	20	112	-.02
Vinyl chloride	0.228	0.255	-	-11.8	20	128	0
Bromomethane	0.167	0.188	-	-12.6	20	137	0
Chloroethane	0.143	0.159	-	-11.2	20	119	0
Trichlorofluoromethane	0.4	0.358	-	10.5	20	101	-.01
Ethyl ether	0.113	0.105	-	7.1	20	105	0
1,1-Dichloroethene	0.214	0.233	-	-8.9	20	117	0
Carbon disulfide	0.719	0.779	-	-8.3	20	123	0
Freon-113	0.231	0.238	-	-3	20	107	-.01
Acrolein	0.032	0.035	-	-9.4	20	129	0
Methylene chloride	0.283	0.268	-	5.3	20	119	0
Acetone	40	46.392	-	-16	20	139	.01
trans-1,2-Dichloroethene	0.244	0.224	-	8.2	20	104	0
Methyl acetate	0.183	0.185	-	-1.1	20	131	0
Methyl tert-butyl ether	0.578	0.571	-	1.2	20	113	0
tert-Butyl alcohol	0.037	0.035	-	5.4	20	118	.03
Diisopropyl ether	0.655	0.744	-	-13.6	20	132	0
1,1-Dichloroethane	0.458	0.475	-	-3.7	20	123	0
Halothane	0.178	0.172	-	3.4	20	107	0
Acrylonitrile	0.077	0.078	-	-1.3	20	117	0
Ethyl tert-butyl ether	0.666	0.677	-	-1.7	20	115	0
Vinyl acetate	0.535	0.583	-	-9	20	125	0
cis-1,2-Dichloroethene	0.282	0.261	-	7.4	20	109	0
2,2-Dichloropropane	0.387	0.417	-	-7.8	20	125	0
Bromochloromethane	0.137	0.136	-	0.7	20	115	0
Cyclohexane	0.389	0.38	-	2.3	20	107	0
Chloroform	0.477	0.448	-	6.1	20	114	0
Ethyl acetate	0.263	0.293	-	-11.4	20	135	0
Carbon tetrachloride	0.309	0.34	-	-10	20	125	0
Tetrahydrofuran	0.078	0.083	-	-6.4	20	135	0
Dibromofluoromethane	0.304	0.31	-	-2	20	112	0
1,1,1-Trichloroethane	0.357	0.409	-	-14.6	20	122	0
2-Butanone	0.142	0.126	-	11.3	20	104	.01
1,1-Dichloropropene	40	34.93	-	12.7	20	107	0
Benzene	0.873	0.847	-	3	20	108	0
tert-Amyl methyl ether	0.612	0.629	-	-2.8	20	119	0
1,2-Dichloroethane-d4	0.346	0.375	-	-8.4	20	119	0
1,2-Dichloroethane	0.354	0.385	-	-8.8	20	128	0
Methyl cyclohexane	0.386	0.38	-	1.6	20	113	0
Trichloroethene	40	34.485	-	13.8	20	107	0
Dibromomethane	0.163	0.163	-	0	20	117	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.		Lab Number	: L2335541	
Project Name	: AVANT GARDNER		Project Number	: ES22-387153	
Instrument ID	: VOA131		Calibration Date	: 06/27/23 18:17	
Lab File ID	: V31230627N01		Init. Calib. Date(s)	: 03/28/23	03/28/23
Sample No	: WG1797169-2		Init. Calib. Times	: 14:33	17:39
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.24	0.226	-	5.8	20	107	0
2-Chloroethyl vinyl ether	0.148	0.132	-	10.8	20	101	0
Bromodichloromethane	0.319	0.348	-	-9.1	20	119	0
1,4-Dioxane	0.00313	0.00314*	-	-0.3	20	107	.03
cis-1,3-Dichloropropene	0.365	0.364	-	0.3	20	107	0
Chlorobenzene-d5	1	1	-	0	20	133	0
Toluene-d8	1.303	1.246	-	4.4	20	126	0
Toluene	0.758	0.649	-	14.4	20	123	0
4-Methyl-2-pentanone	0.115	0.094	-	18.3	20	112	0
Tetrachloroethene	40	33.183	-	17	20	127	0
trans-1,3-Dichloropropene	0.45	0.386	-	14.2	20	115	0
Ethyl methacrylate	0.377	0.316	-	16.2	20	115	0
1,1,2-Trichloroethane	0.222	0.188*	-	15.3	20	116	0
Chlorodibromomethane	40	33.807	-	15.5	20	124	0
1,3-Dichloropropane	0.469	0.379	-	19.2	20	112	0
1,2-Dibromoethane	40	30.811	-	23*	20	117	0
2-Hexanone	0.243	0.206	-	15.2	20	123	0
Chlorobenzene	0.836	0.757	-	9.4	20	124	0
Ethylbenzene	1.461	1.325	-	9.3	20	126	0
1,1,1,2-Tetrachloroethane	40	35.385	-	11.5	20	130	0
p/m Xylene	0.545	0.524	-	3.9	20	129	0
o Xylene	0.535	0.511	-	4.5	20	128	0
Styrene	0.931	0.872	-	6.3	20	126	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	147	0
Bromoform	40	34.181	-	14.5	20	145	0
Isopropylbenzene	2.674	2.241	-	16.2	20	126	0
4-Bromofluorobenzene	0.919	0.886	-	3.6	20	139	0
Bromobenzene	0.676	0.568	-	16	20	128	0
n-Propylbenzene	3.21	2.745	-	14.5	20	128	0
1,4-Dichlorobutane	0.808	0.69	-	14.6	20	132	0
1,1,2,2-Tetrachloroethane	0.648	0.482	-	25.6*	20	110	0
4-Ethyltoluene	2.637	2.362	-	10.4	20	137	0
2-Chlorotoluene	1.958	1.628	-	16.9	20	126	0
1,3,5-Trimethylbenzene	2.224	2.059	-	7.4	20	141	0
1,2,3-Trichloropropane	0.558	0.433	-	22.4*	20	120	0
trans-1,4-Dichloro-2-buten	0.206	0.181	-	12.1	20	130	0
4-Chlorotoluene	2.029	1.756	-	13.5	20	133	0
tert-Butylbenzene	1.981	1.716	-	13.4	20	130	0
1,2,4-Trimethylbenzene	2.244	2.006	-	10.6	20	138	0
sec-Butylbenzene	2.959	2.551	-	13.8	20	129	0
p-Isopropyltoluene	2.542	2.259	-	11.1	20	135	0
1,3-Dichlorobenzene	1.353	1.176	-	13.1	20	135	0
1,4-Dichlorobenzene	1.368	1.186	-	13.3	20	137	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.		Lab Number	: L2335541	
Project Name	: AVANT GARDNER		Project Number	: ES22-387153	
Instrument ID	: VOA131		Calibration Date	: 06/27/23 18:17	
Lab File ID	: V31230627N01		Init. Calib. Date(s)	: 03/28/23	03/28/23
Sample No	: WG1797169-2		Init. Calib. Times	: 14:33	17:39
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.51	1.365	-	9.6	20	138	0
n-Butylbenzene	2.291	2.029	-	11.4	20	133	0
1,2-Dichlorobenzene	1.29	1.115	-	13.6	20	133	0
1,2,4,5-Tetramethylbenzene	2.382	1.574	-	33.9*	20	100	0
1,2-Dibromo-3-chloropropan	0.115	0.091	-	20.9*	20	114	0
1,3,5-Trichlorobenzene	0.972	0.86	-	11.5	20	138	0
Hexachlorobutadiene	0.451	0.415	-	8	20	139	-.01
1,2,4-Trichlorobenzene	0.942	0.755	-	19.9	20	125	0
Naphthalene	2.477	1.825	-	26.3*	20	113	0
1,2,3-Trichlorobenzene	0.922	0.719	-	22*	20	121	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541		
Project Name	: AVANT GARDNER	Project Number	: ES22-387153		
Instrument ID	: VOA131	Calibration Date	: 06/28/23 07:52		
Lab File ID	: V31230628A01	Init. Calib. Date(s)	: 03/28/23	03/28/23	
Sample No	: WG1797314-2	Init. Calib. Times	: 14:33	17:39	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	99	0
Dichlorodifluoromethane	0.219	0.376	-	-71.7*	20	176	0
Chloromethane	0.236	0.392	-	-66.1*	20	180	-.02
Vinyl chloride	0.228	0.361	-	-58.3*	20	166	0
Bromomethane	0.167	0.232	-	-38.9*	20	155	0
Chloroethane	0.143	0.204	-	-42.7*	20	139	0
Trichlorofluoromethane	0.4	0.447	-	-11.7	20	115	0
Ethyl ether	0.113	0.125	-	-10.6	20	115	0
1,1-Dichloroethene	0.214	0.251	-	-17.3	20	116	0
Carbon disulfide	0.719	0.931	-	-29.5*	20	135	0
Freon-113	0.231	0.263	-	-13.9	20	108	0
Acrolein	0.032	0.045	-	-40.6*	20	153	0
Methylene chloride	0.283	0.294	-	-3.9	20	120	0
Acetone	40	46.208	-	-15.5	20	127	0
trans-1,2-Dichloroethene	0.244	0.239	-	2	20	102	0
Methyl acetate	0.183	0.212	-	-15.8	20	138	0
Methyl tert-butyl ether	0.578	0.639	-	-10.6	20	116	0
tert-Butyl alcohol	0.037	0.034	-	8.1	20	106	0
Diisopropyl ether	0.655	0.764	-	-16.6	20	125	0
1,1-Dichloroethane	0.458	0.519	-	-13.3	20	123	0
Halothane	0.178	0.181	-	-1.7	20	103	0
Acrylonitrile	0.077	0.082	-	-6.5	20	113	0
Ethyl tert-butyl ether	0.666	0.691	-	-3.8	20	108	0
Vinyl acetate	0.535	0.505	-	5.6	20	99	0
cis-1,2-Dichloroethene	0.282	0.281	-	0.4	20	107	0
2,2-Dichloropropane	0.387	0.46	-	-18.9	20	126	0
Bromochloromethane	0.137	0.149	-	-8.8	20	115	0
Cyclohexane	0.389	0.425	-	-9.3	20	110	0
Chloroform	0.477	0.481	-	-0.8	20	113	0
Ethyl acetate	0.263	0.288	-	-9.5	20	121	0
Carbon tetrachloride	0.309	0.383	-	-23.9*	20	129	0
Tetrahydrofuran	0.078	0.086	-	-10.3	20	128	0
Dibromofluoromethane	0.304	0.305	-	-0.3	20	100	0
1,1,1-Trichloroethane	0.357	0.446	-	-24.9*	20	123	0
2-Butanone	0.142	0.142	-	0	20	107	0
1,1-Dichloropropene	40	38.303	-	4.2	20	108	0
Benzene	0.873	0.936	-	-7.2	20	109	0
tert-Amyl methyl ether	0.612	0.621	-	-1.5	20	108	0
1,2-Dichloroethane-d4	0.346	0.36	-	-4	20	105	0
1,2-Dichloroethane	0.354	0.399	-	-12.7	20	121	0
Methyl cyclohexane	0.386	0.426	-	-10.4	20	116	0
Trichloroethene	40	37.84	-	5.4	20	108	0
Dibromomethane	0.163	0.167	-	-2.5	20	110	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541		
Project Name	: AVANT GARDNER	Project Number	: ES22-387153		
Instrument ID	: VOA131	Calibration Date	: 06/28/23 07:52		
Lab File ID	: V31230628A01	Init. Calib. Date(s)	: 03/28/23	03/28/23	
Sample No	: WG1797314-2	Init. Calib. Times	: 14:33	17:39	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.24	0.237	-	1.3	20	102	0
2-Chloroethyl vinyl ether	0.148	0.147	-	0.7	20	102	0
Bromodichloromethane	0.319	0.354	-	-11	20	111	0
1,4-Dioxane	0.00313	0.00304*	-	2.9	20	95	.01
cis-1,3-Dichloropropene	0.365	0.377	-	-3.3	20	102	0
Chlorobenzene-d5	1	1	-	0	20	122	0
Toluene-d8	1.303	1.242	-	4.7	20	115	0
Toluene	0.758	0.714	-	5.8	20	124	0
4-Methyl-2-pentanone	0.115	0.094	-	18.3	20	103	0
Tetrachloroethene	40	37.134	-	7.2	20	131	0
trans-1,3-Dichloropropene	0.45	0.392	-	12.9	20	107	0
Ethyl methacrylate	0.377	0.3	-	20.4*	20	100	0
1,1,2-Trichloroethane	0.222	0.188*	-	15.3	20	106	0
Chlorodibromomethane	40	34.1	-	14.7	20	115	0
1,3-Dichloropropane	0.469	0.382	-	18.6	20	104	0
1,2-Dibromoethane	40	31.27	-	21.8*	20	109	0
2-Hexanone	0.243	0.208	-	14.4	20	114	0
Chlorobenzene	0.836	0.816	-	2.4	20	122	0
Ethylbenzene	1.461	1.469	-	-0.5	20	129	0
1,1,1,2-Tetrachloroethane	40	36.979	-	7.6	20	125	0
p/m Xylene	0.545	0.588	-	-7.9	20	132	0
o Xylene	0.535	0.567	-	-6	20	131	0
Styrene	0.931	0.955	-	-2.6	20	126	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	138	0
Bromoform	40	33.617	-	16	20	134	0
Isopropylbenzene	2.674	2.475	-	7.4	20	130	0
4-Bromofluorobenzene	0.919	0.848	-	7.7	20	125	0
Bromobenzene	0.676	0.59	-	12.7	20	125	0
n-Propylbenzene	3.21	3.07	-	4.4	20	134	0
1,4-Dichlorobutane	0.808	0.669	-	17.2	20	120	0
1,1,2,2-Tetrachloroethane	0.648	0.462	-	28.7*	20	99	0
4-Ethyltoluene	2.637	2.593	-	1.7	20	141	0
2-Chlorotoluene	1.958	1.817	-	7.2	20	132	0
1,3,5-Trimethylbenzene	2.224	2.246	-	-1	20	144	0
1,2,3-Trichloropropane	0.558	0.436	-	21.9*	20	114	0
trans-1,4-Dichloro-2-buten	0.206	0.182	-	11.7	20	122	0
4-Chlorotoluene	2.029	1.908	-	6	20	135	0
tert-Butylbenzene	1.981	1.897	-	4.2	20	135	0
1,2,4-Trimethylbenzene	2.244	2.183	-	2.7	20	140	0
sec-Butylbenzene	2.959	2.854	-	3.5	20	135	0
p-Isopropyltoluene	2.542	2.539	-	0.1	20	142	0
1,3-Dichlorobenzene	1.353	1.274	-	5.8	20	137	0
1,4-Dichlorobenzene	1.368	1.269	-	7.2	20	137	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541		
Project Name	: AVANT GARDNER	Project Number	: ES22-387153		
Instrument ID	: VOA131	Calibration Date	: 06/28/23 07:52		
Lab File ID	: V31230628A01	Init. Calib. Date(s)	: 03/28/23	03/28/23	
Sample No	: WG1797314-2	Init. Calib. Times	: 14:33	17:39	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.51	1.524	-	-0.9	20	145	0
n-Butylbenzene	2.291	2.307	-	-0.7	20	142	0
1,2-Dichlorobenzene	1.29	1.185	-	8.1	20	133	0
1,2,4,5-Tetramethylbenzene	2.382	1.666	-	30.1*	20	99	0
1,2-Dibromo-3-chloropropan	0.115	0.09	-	21.7*	20	105	0
1,3,5-Trichlorobenzene	0.972	0.936	-	3.7	20	140	0
Hexachlorobutadiene	0.451	0.476	-	-5.5	20	149	-.01
1,2,4-Trichlorobenzene	0.942	0.8	-	15.1	20	124	0
Naphthalene	2.477	1.903	-	23.2*	20	111	0
1,2,3-Trichlorobenzene	0.922	0.754	-	18.2	20	119	-.01

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	**Lab Number**	: L2335541		
Project Name	: AVANT GARDNER	**Project Number**	: ES22-387153		
Instrument ID	: VOA110	**Calibration Date**	: 07/01/23 13:18		
Lab File ID	: V10230701C01	**Init. Calib. Date(s)**	: 06/22/23	06/22/23	
Sample No	: WG1799631-2	**Init. Calib. Times**	: 03:25	07:03	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	66	0
Dichlorodifluoromethane	0.246	0.263	-	-6.9	20	65	0
Chloromethane	0.303	0.336	-	-10.9	20	74	0
Vinyl chloride	0.265	0.299	-	-12.8	20	70	0
Bromomethane	0.168	0.164	-	2.4	20	67	0
Chloroethane	0.174	0.189	-	-8.6	20	69	0
Trichlorofluoromethane	0.304	0.328	-	-7.9	20	66	0
Ethyl ether	0.137	0.155	-	-13.1	20	73	0
1,1-Dichloroethene	0.213	0.21	-	1.4	20	63	0
Carbon disulfide	0.705	0.716	-	-1.6	20	66	0
Freon-113	0.21	0.221	-	-5.2	20	63	0
Acrolein	0.045	0.055	-	-22.2*	20	81	0
Methylene chloride	0.261	0.24	-	8	20	64	0
Acetone	0.107	0.109	-	-1.9	20	68	0
trans-1,2-Dichloroethene	0.24	0.232	-	3.3	20	63	0
Methyl acetate	0.256	0.269	-	-5.1	20	71	0
Methyl tert-butyl ether	0.749	0.767	-	-2.4	20	66	0
tert-Butyl alcohol	0.048	0.041	-	14.6	20	54	0
Diisopropyl ether	0.933	0.918	-	1.6	20	62	0
1,1-Dichloroethane	0.454	0.453	-	0.2	20	64	0
Halothane	0.174	0.164	-	5.7	20	59	0
Acrylonitrile	0.097	0.096	-	1	20	63	0
Ethyl tert-butyl ether	0.83	0.776	-	6.5	20	59	0
Vinyl acetate	0.529	0.549	-	-3.8	20	65	0
cis-1,2-Dichloroethene	0.273	0.253	-	7.3	20	60	0
2,2-Dichloropropane	0.345	0.34	-	1.4	20	65	0
Bromochloromethane	0.131	0.117	-	10.7	20	59	0
Cyclohexane	0.401	0.405	-	-1	20	62	0
Chloroform	0.428	0.406	-	5.1	20	61	0
Ethyl acetate	0.33	0.328	-	0.6	20	65	0
Carbon tetrachloride	0.268	0.28	-	-4.5	20	63	0
Tetrahydrofuran	0.115	0.099	-	13.9	20	59	0
Dibromofluoromethane	0.272	0.256	-	5.9	20	65	0
1,1,1-Trichloroethane	0.353	0.336	-	4.8	20	60	0
2-Butanone	0.16	0.152	-	5	20	66	0
1,1-Dichloropropene	0.309	0.316	-	-2.3	20	62	0
Benzene	0.938	0.912	-	2.8	20	62	0
tert-Amyl methyl ether	0.77	0.695	-	9.7	20	57	0
1,2-Dichloroethane-d4	0.309	0.298	-	3.6	20	65	0
1,2-Dichloroethane	0.361	0.346	-	4.2	20	62	0
Methyl cyclohexane	0.403	0.393	-	2.5	20	58	0
Trichloroethene	0.258	0.245	-	5	20	60	0
Dibromomethane	0.156	0.148	-	5.1	20	62	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541		
Project Name	: AVANT GARDNER	Project Number	: ES22-387153		
Instrument ID	: VOA110	Calibration Date	: 07/01/23 13:18		
Lab File ID	: V10230701C01	Init. Calib. Date(s)	: 06/22/23	06/22/23	
Sample No	: WG1799631-2	Init. Calib. Times	: 03:25	07:03	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.263	0.247	-	6.1	20	61	0
2-Chloroethyl vinyl ether	0.163	0.155	-	4.9	20	59	0
Bromodichloromethane	0.329	0.317	-	3.6	20	61	0
1,4-Dioxane	0.00341	0.00291*	-	14.7	20	53	0
cis-1,3-Dichloropropene	0.394	0.391	-	0.8	20	62	0
Chlorobenzene-d5	1	1	-	0	20	63	0
Toluene-d8	1.239	1.24	-	-0.1	20	63	0
Toluene	0.698	0.695	-	0.4	20	60	0
4-Methyl-2-pentanone	0.129	0.127	-	1.6	20	59	0
Tetrachloroethene	0.263	0.28	-	-6.5	20	61	0
trans-1,3-Dichloropropene	0.421	0.456	-	-8.3	20	64	0
Ethyl methacrylate	0.413	0.383	-	7.3	20	56	0
1,1,2-Trichloroethane	0.215	0.226	-	-5.1	20	62	0
Chlorodibromomethane	0.284	0.285	-	-0.4	20	59	0
1,3-Dichloropropane	0.457	0.468	-	-2.4	20	60	0
1,2-Dibromoethane	0.264	0.262	-	0.8	20	57	0
2-Hexanone	0.268	0.263	-	1.9	20	59	0
Chlorobenzene	0.781	0.786	-	-0.6	20	60	0
Ethylbenzene	1.328	1.334	-	-0.5	20	60	0
1,1,1,2-Tetrachloroethane	0.276	0.28	-	-1.4	20	58	0
p/m Xylene	0.515	0.512	-	0.6	20	59	0
o Xylene	0.509	0.51	-	-0.2	20	59	0
Styrene	0.875	0.901	-	-3	20	61	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	64	0
Bromoform	40	34.656	-	13.4	20	61	0
Isopropylbenzene	2.389	2.345	-	1.8	20	59	0
4-Bromofluorobenzene	0.88	0.885	-	-0.6	20	65	0
Bromobenzene	0.605	0.609	-	-0.7	20	62	0
n-Propylbenzene	2.713	2.981	-	-9.9	20	66	0
1,4-Dichlorobutane	0.896	0.912	-	-1.8	20	64	0
1,1,2,2-Tetrachloroethane	0.656	0.704	-	-7.3	20	66	0
4-Ethyltoluene	2.359	2.455	-	-4.1	20	63	0
2-Chlorotoluene	1.651	1.71	-	-3.6	20	64	0
1,3,5-Trimethylbenzene	2.062	2.087	-	-1.2	20	62	0
1,2,3-Trichloropropane	0.569	0.581	-	-2.1	20	63	0
trans-1,4-Dichloro-2-buten	0.202	0.243	-	-20.3*	20	72	0
4-Chlorotoluene	1.712	1.796	-	-4.9	20	64	0
tert-Butylbenzene	1.778	1.787	-	-0.5	20	61	0
1,2,4-Trimethylbenzene	2.014	2.057	-	-2.1	20	62	0
sec-Butylbenzene	2.585	2.764	-	-6.9	20	63	0
p-Isopropyltoluene	2.223	2.328	-	-4.7	20	62	0
1,3-Dichlorobenzene	1.13	1.211	-	-7.2	20	65	0
1,4-Dichlorobenzene	1.157	1.229	-	-6.2	20	65	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541		
Project Name	: AVANT GARDNER	Project Number	: ES22-387153		
Instrument ID	: VOA110	Calibration Date	: 07/01/23 13:18		
Lab File ID	: V10230701C01	Init. Calib. Date(s)	: 06/22/23	06/22/23	
Sample No	: WG1799631-2	Init. Calib. Times	: 03:25	07:03	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.32	1.411	-	-6.9	20	63	0
n-Butylbenzene	1.804	2.186	-	-21.2*	20	71	0
1,2-Dichlorobenzene	1.132	1.154	-	-1.9	20	63	0
1,2,4,5-Tetramethylbenzene	2.203	2.272	-	-3.1	20	62	0
1,2-Dibromo-3-chloropropan	40	35.007	-	12.5	20	57	0
1,3,5-Trichlorobenzene	0.809	0.908	-	-12.2	20	67	0
Hexachlorobutadiene	0.364	0.388	-	-6.6	20	64	0
1,2,4-Trichlorobenzene	0.751	0.813	-	-8.3	20	65	0
Naphthalene	2.335	2.253	-	3.5	20	59	0
1,2,3-Trichlorobenzene	0.763	0.8	-	-4.8	20	64	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541		
Project Name	: AVANT GARDNER	Project Number	: ES22-387153		
Instrument ID	: VOA126	Calibration Date	: 07/03/23 06:36		
Lab File ID	: V26230703A01	Init. Calib. Date(s)	: 05/26/23	05/27/23	
Sample No	: WG1799615-2	Init. Calib. Times	: 22:15	03:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	94	0
Dichlorodifluoromethane	0.271	0.258	-	4.8	20	85	0
Chloromethane	0.319	0.347	-	-8.8	20	104	-.01
Vinyl chloride	0.327	0.329	-	-0.6	20	89	0
Bromomethane	0.197	0.176	-	10.7	20	86	0
Chloroethane	0.181	0.18	-	0.6	20	91	0
Trichlorofluoromethane	0.422	0.34	-	19.4	20	72	0
Ethyl ether	0.117	0.11	-	6	20	89	0
1,1-Dichloroethene	0.247	0.215	-	13	20	77	0
Carbon disulfide	0.908	0.733	-	19.3	20	76	0
Freon-113	0.278	0.233	-	16.2	20	74	0
Acrolein	0.03	0.029	-	3.3	20	99	0
Methylene chloride	0.283	0.229	-	19.1	20	78	0
Acetone	40	35.174	-	12.1	20	86	0
trans-1,2-Dichloroethene	0.282	0.246	-	12.8	20	79	0
Methyl acetate	0.132	0.129	-	2.3	20	99	0
Methyl tert-butyl ether	0.637	0.578	-	9.3	20	85	0
tert-Butyl alcohol	0.024	0.014	-	41.7*	20	60	0
Diisopropyl ether	0.874	0.912	-	-4.3	20	96	0
1,1-Dichloroethane	0.488	0.462	-	5.3	20	86	0
Halothane	0.22	0.181	-	17.7	20	73	0
Acrylonitrile	0.065	0.062	-	4.6	20	92	0
Ethyl tert-butyl ether	0.852	0.744	-	12.7	20	80	0
Vinyl acetate	0.402	0.333	-	17.2	20	76	0
cis-1,2-Dichloroethene	0.306	0.258	-	15.7	20	77	0
2,2-Dichloropropane	0.432	0.343	-	20.6*	20	71	0
Bromochloromethane	0.137	0.109	-	20.4*	20	74	0
Cyclohexane	0.488	0.491	-	-0.6	20	90	0
Chloroform	0.496	0.425	-	14.3	20	78	0
Ethyl acetate	0.191	0.168	-	12	20	87	-.01
Carbon tetrachloride	0.412	0.307	-	25.5*	20	65	0
Tetrahydrofuran	0.057	0.052	-	8.8	20	92	0
Dibromofluoromethane	0.283	0.247	-	12.7	20	82	0
1,1,1-Trichloroethane	0.428	0.366	-	14.5	20	75	0
2-Butanone	0.088	0.078	-	11.4	20	92	0
1,1-Dichloropropene	0.37	0.352	-	4.9	20	83	0
Benzene	1.071	0.962	-	10.2	20	80	0
tert-Amyl methyl ether	0.751	0.602	-	19.8	20	74	0
1,2-Dichloroethane-d4	0.272	0.251	-	7.7	20	89	0
1,2-Dichloroethane	0.35	0.299	-	14.6	20	81	0
Methyl cyclohexane	0.501	0.44	-	12.2	20	78	0
Trichloroethene	0.301	0.259	-	14	20	77	0
Dibromomethane	0.154	0.127	-	17.5	20	77	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541		
Project Name	: AVANT GARDNER	Project Number	: ES22-387153		
Instrument ID	: VOA126	Calibration Date	: 07/03/23 06:36		
Lab File ID	: V26230703A01	Init. Calib. Date(s)	: 05/26/23	05/27/23	
Sample No	: WG1799615-2	Init. Calib. Times	: 22:15	03:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.282	0.263	-	6.7	20	86	0
2-Chloroethyl vinyl ether	0.139	0.102	-	26.6*	20	68	0
Bromodichloromethane	0.369	0.312	-	15.4	20	76	0
1,4-Dioxane	0.0021	0.00173*	-	17.6	20	81	0
cis-1,3-Dichloropropene	0.424	0.366	-	13.7	20	76	0
Chlorobenzene-d5	1	1	-	0	20	83	0
Toluene-d8	1.255	1.305	-	-4	20	86	-.01
Toluene	0.797	0.765	-	4	20	78	0
4-Methyl-2-pentanone	0.086	0.09	-	-4.7	20	86	0
Tetrachloroethene	0.353	0.312	-	11.6	20	69	0
trans-1,3-Dichloropropene	0.418	0.374	-	10.5	20	71	0
Ethyl methacrylate	0.339	0.296	-	12.7	20	70	0
1,1,2-Trichloroethane	0.198	0.19*	-	4	20	78	0
Chlorodibromomethane	0.291	0.242	-	16.8	20	64	0
1,3-Dichloropropane	0.409	0.385	-	5.9	20	77	0
1,2-Dibromoethane	0.233	0.208	-	10.7	20	72	0
2-Hexanone	0.157	0.164	-	-4.5	20	88	0
Chlorobenzene	0.887	0.818	-	7.8	20	74	0
Ethylbenzene	1.496	1.484	-	0.8	20	78	0
1,1,1,2-Tetrachloroethane	0.318	0.279	-	12.3	20	68	0
p/m Xylene	0.588	0.566	-	3.7	20	75	0
o Xylene	0.564	0.539	-	4.4	20	75	0
Styrene	0.939	0.898	-	4.4	20	74	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	76	0
Bromoform	0.33	0.246	-	25.5*	20	55	0
Isopropylbenzene	2.864	2.949	-	-3	20	75	0
4-Bromofluorobenzene	0.848	0.942	-	-11.1	20	86	0
Bromobenzene	0.703	0.634	-	9.8	20	67	0
n-Propylbenzene	3.298	3.557	-	-7.9	20	77	0
1,4-Dichlorobutane	0.73	0.797	-	-9.2	20	84	0
1,1,2,2-Tetrachloroethane	0.531	0.545	-	-2.6	20	76	0
4-Ethyltoluene	2.751	2.905	-	-5.6	20	76	0
2-Chlorotoluene	2.215	2.263	-	-2.2	20	75	0
1,3,5-Trimethylbenzene	2.377	2.465	-	-3.7	20	75	0
1,2,3-Trichloropropane	0.399	0.383	-	4	20	75	0
trans-1,4-Dichloro-2-buten	0.17	0.179	-	-5.3	20	78	0
4-Chlorotoluene	2.012	2.071	-	-2.9	20	76	0
tert-Butylbenzene	2.091	2.104	-	-0.6	20	73	0
1,2,4-Trimethylbenzene	2.305	2.379	-	-3.2	20	74	0
sec-Butylbenzene	3.051	3.244	-	-6.3	20	76	0
p-Isopropyltoluene	2.666	2.742	-	-2.9	20	73	0
1,3-Dichlorobenzene	1.351	1.287	-	4.7	20	70	0
1,4-Dichlorobenzene	1.349	1.271	-	5.8	20	71	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541		
Project Name	: AVANT GARDNER	Project Number	: ES22-387153		
Instrument ID	: VOA126	Calibration Date	: 07/03/23 06:36		
Lab File ID	: V26230703A01	Init. Calib. Date(s)	: 05/26/23	05/27/23	
Sample No	: WG1799615-2	Init. Calib. Times	: 22:15	03:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.631	1.7	-	-4.2	20	74	0
n-Butylbenzene	2.835	3.013	-	-6.3	20	76	0
1,2-Dichlorobenzene	1.228	1.148	-	6.5	20	69	0
1,2,4,5-Tetramethylbenzene	2.284	2.394	-	-4.8	20	74	0
1,2-Dibromo-3-chloropropan	0.082	0.061	-	25.6*	20	56	0
1,3,5-Trichlorobenzene	0.912	0.912	-	0	20	73	0
Hexachlorobutadiene	0.427	0.412	-	3.5	20	68	0
1,2,4-Trichlorobenzene	0.745	0.736	-	1.2	20	71	0
Naphthalene	1.416	1.35	-	4.7	20	70	0
1,2,3-Trichlorobenzene	40	31.744	-	20.6*	20	63	0

* Value outside of QC limits.

Metals Data Section

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of TAL and TCLP Metals
Data for Alpha Analytical Labs
SDG Number: L2335541

18 Soil Samples and 1 Field Duplicate
Collected June 20, 2023

Prepared by: Donald Anné
August 16, 2023

Holding Times: The samples were prepared and analyzed within USEPA SW-846 holding times.

Initial and Continuing Calibration Verification: The percent recoveries for target metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).

Blanks: The analyses of initial and continuing calibration blanks reported target metals as either not detected or below the reporting limits, as required.

ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).

Spike Sample Recovery: The percent recoveries (%Rs) for TCLP metals were within control limits (75-125%) for TCLP MS/MSD sample 8B-1W (6.5-7.0).

Two of two %Rs for arsenic and 1 of 2 %Rs for antimony were above control limits (75-125%) for soil MS/MSD sample 8B-1W (6.5-7.0). The %R for mercury was above control limits (75-125%) for soil spike sample 8B-1NN (1.5-2.0). Positive results for arsenic and antimony should be considered estimated, biased high (J+) in associated soil samples.

One of two %Rs for barium and chromium were below control limits (75-125%), but not below 10% for soil MS/MSD sample 8B-1W (6.5-7.0). Positive results for barium and chromium should be considered estimated, biased low (J-) and "not detected" results estimated (UJ) in associated soil samples.

Laboratory Duplicates: The relative percent differences (RPDs) for TCLP metals were below the allowable maximum (20%) for TCLP MS/MSD sample 8B-1W (6.5-7), as required. The RPDs for applicable metals were below the allowable maximum (35%) for soil MS/MSD sample 8B-1W (6.5-7), as required.

Field Duplicates: The relative percent differences for 14 metals were above the allowable maximum (35%) for soil field duplicate pair 8B-1W (6.5-7.0)/8B-1W (6.5-7.0) DUP (attached table). Positive results for these 14 metals should be considered estimated (J) in samples 8B-1W (6.5-7.0) and 8B-1W (6.5-7.0) DUP.

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Laboratory Control Sample: The percent recoveries (%Rs) for TCLP metals were within control limits (75-125%) for TCLP samples WG1801960-2, WG1803365-2, WG1801962-2, and WG1803360-2. The %Rs for target metals were within control limits for soil samples WG1796177-2, WG1800887-2, WG1796178-2, WG1800889-2, and WG1802651-2.

Serial Dilution: The %Ds for applicable metals were below the allowable maximum (15%) for soil serial dilution sample 8B-1W (6.5-7.0), as required.

Percent Solids: The percent solids for soil samples were above 50%.

Form 5a
Matrix Spike

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Client Sample ID	: 8B-1W (6.5-7.0)	Matrix	: SOIL
Lab Sample ID	: L2335541-21		
Matrix Spike	: WG1796177-3	MS Analysis Date	: 06/29/23 14:37
Matrix Spike Dup	: WG1796177-4	MSD Analysis Date	: 06/29/23 14:41

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R		Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R		RPD	Recovery Limits	RPD Limit
Aluminum, Total	9710	309	12200	NA		305	10800	NA		12	75-125	20
Antimony, Total	51.1	77.3	154	133	Q	76.2	116	85		28	75-125	35
Arsenic, Total	20.1	18.6	46.0	140	Q	18.3	45.4	138	Q	1	75-125	20
Barium, Total	455	309	715	84		305	674	72	Q	6	75-125	20
Beryllium, Total	0.918	7.73	8.75	101		7.62	8.61	101		2	75-125	20
Cadmium, Total	1.65	8.2	9.09	91		8.08	9.03	91		1	75-125	20
Calcium, Total	21000	1550	24300	NA		1520	23600	NA		3	75-125	20
Chromium, Total	83.6	30.9	98.6	48	Q	30.5	109	83		10	75-125	20
Cobalt, Total	10.8	77.3	86.3	98		76.2	87.5	101		1	75-125	20
Copper, Total	214	38.7	242	NA		38.1	260	121		7	75-125	20
Lead, Total	658	82	607	NA		80.8	604	NA		0	75-125	20
Magnesium, Total	2910	1550	4840	125		1520	4700	117		3	75-125	20
Manganese, Total	802	77.3	1010	NA		76.2	749	NA		30	75-125	35
Nickel, Total	37.2	77.3	105	88		76.2	109	94		4	75-125	20
Potassium, Total	1080	1550	2900	118		1520	2760	110		5	75-125	20
Selenium, Total	1.78J	18.6	22.1	119		18.3	21.8	119		1	75-125	20
Silver, Total	ND	7.73	7.61	98		7.62	7.66	100		1	75-125	20
Sodium, Total	680	1550	2510	118		1520	2460	117		2	75-125	20
Thallium, Total	1.47J	18.6	19.6	106		18.3	19.3	106		2	75-125	20
Vanadium, Total	35.9	77.3	117	105		76.2	116	105		1	75-125	20
Zinc, Total	2240	77.3	786	NA		76.2	732	NA		7	75-125	20

NA - Sample concentration is greater than 4X the spiking level; therefore, the %R is not applicable.

Form 5a
Matrix Spike

Client	:	Partner Engineering & Science, Inc.	Lab Number	:	L2335541
Project Name	:	AVANT GARDNER	Project Number	:	ES22-387153
Client Sample ID	:	8B-1NN (1.5-2.0)	Matrix	:	SOIL
Lab Sample ID	:	L2335541-09			
Matrix Spike	:	WG1800889-3	MS Analysis Date	:	07/10/23 16:25
Matrix Spike Dup	:		MSD Analysis Date	:	

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Total	1.41	1.43	3.96	178 Q					80-120	20

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of TAL Metals Data
for Alpha Analytical Labs
SDG Number: L2335541

7 Ground Water Sample
Collected June 20, 2023

Prepared by: Donald Anné
August 16, 2023

Holding Times: The samples were analyzed within USEPA SW-846 holding times.

Initial and Continuing Calibration Verification: The percent recoveries for target metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).

Blanks: The analyses of initial and continuing calibration and method blanks reported target metals as either not detected or below the reporting limits, as required.

ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).

Spike Sample Recovery: The percent recoveries (%Rs) for applicable metals were within control limits (75-125%) for aqueous batch dissolved samples L2333713-01, L2334118-13, and L2337659-11; dissolved spike sample 8B-1NN-GW; and batch total spike samples L2333903-05 and L2336316-01.

One of two %Rs for magnesium was below control limits, but not below 30% for aqueous batch total MS/MSD sample L2338623-01. Positive total results for magnesium should be considered estimated, biased low (J-) and "not detected" results estimated (UJ) in associated total aqueous samples.

Laboratory Duplicates: The relative percent differences (RPDs) for applicable metals were below the allowable maximum (20%) for aqueous batch dissolved samples WG1796573-4 and WG1801412-4, and batch total MS/MSD sample L2338623-01, as required.

The RPD for mercury was above the allowable maximum (20%) for aqueous dissolved duplicate sample 8B-1NN-GW. Positive dissolved results for mercury should be considered estimated (J) in associated dissolved aqueous samples.

Laboratory Control Sample: The percent recoveries for target metals were within control limits for aqueous dissolved samples WG1796573-2, WG1801412-2, and WG1801416-2, and aqueous total samples WG1796303-2, WG1801296-2, WG1796309-2, WG1796579-2, and WG1801298-2.

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Serial Dilution: The %Ds for calcium, magnesium, potassium, and sodium were above the allowable maximum (10%) for aqueous batch total serial dilution sample L2338633-01. Positive results for calcium, magnesium, potassium, and sodium that are above the RLs should be reported as estimated (J) in associated total aqueous samples.

Total vs Dissolved: The dissolved result for potassium was greater than the total result plus 10% for sample 8B-1SS-GW. Positive results for total and dissolved potassium should be considered estimated (J) in sample 8B-1SS-GW.

The dissolved result for sodium was greater than the total result plus 10% for sample 8B-1E-GW. Positive results for total and dissolved sodium should be considered estimated (J) in sample 8B-1E-GW.

Form 5a
Matrix Spike

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: L2338623-01		
Matrix Spike	: WG1801296-3	MS Analysis Date	: 07/13/23 09:54
Matrix Spike Dup	: WG1801296-4	MSD Analysis Date	: 07/13/23 10:03

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	0.00448J	2	1.96	98	2	1.94	97	1	75-125	20
Antimony, Total	ND	0.5	0.4831	97	0.5	0.4750	95	2	75-125	20
Arsenic, Total	0.01240	0.12	0.1323	100	0.12	0.1318	100	0	75-125	20
Barium, Total	0.1626	2	2.099	97	2	2.065	95	2	75-125	20
Beryllium, Total	ND	0.05	0.04923	98	0.05	0.04989	100	1	75-125	20
Cadmium, Total	ND	0.053	0.05222	98	0.053	0.05237	99	0	75-125	20
Calcium, Total	140.	10	145.	NA	10	141.	NA	3	75-125	20
Chromium, Total	0.00039J	0.2	0.1979	99	0.2	0.1906	95	4	75-125	20
Cobalt, Total	0.00120	0.5	0.4930	98	0.5	0.4742	94	4	75-125	20
Copper, Total	ND	0.25	0.2553	102	0.25	0.2496	100	2	75-125	20
Iron, Total	42.0	1	42.6	NA	1	40.8	NA	4	75-125	20
Lead, Total	0.00036J	0.53	0.5290	100	0.53	0.5324	100	1	75-125	20
Magnesium, Total	26.4	10	34.1	77	10	33.6	72 Q	1	75-125	20
Manganese, Total	1.773	0.5	2.286	103	0.5	2.178	81	5	75-125	20
Nickel, Total	0.00240	0.5	0.5176	103	0.5	0.4846	96	7	75-125	20
Potassium, Total	27.3	10	36.2	89	10	34.9	76	4	75-125	20
Selenium, Total	ND	0.12	0.108	90	0.12	0.112	93	4	75-125	20
Silver, Total	ND	0.05	0.04935	99	0.05	0.04934	99	0	75-125	20
Sodium, Total	150.	10	146.	NA	10	143.	NA	2	75-125	20
Thallium, Total	0.00014J	0.12	0.1185	99	0.12	0.1230	102	4	75-125	20
Vanadium, Total	ND	0.5	0.4813	96	0.5	0.4617	92	4	75-125	20
Zinc, Total	0.00646J	0.5	0.4879	98	0.5	0.4821	96	1	75-125	20

NA - Sample concentration is greater than 4X the spiking level; therefore, the %R is not applicable.

Form 8
Serial Dilutions

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: L2338623-01	Analysis Date	: 07/13/23 10:08
Serial Dilution ID	: WG1801296-6	Analysis Date	: 07/13/23 10:18

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Barium, Total	0.1626	0.1467	10	20
Calcium, Total	140.	125.	11	20
Iron, Total	42.0	38.5	8	20
Magnesium, Total	26.4	22.6	14	20
Manganese, Total	1.773	1.622	9	20
Potassium, Total	27.3	24.2	11	20
Sodium, Total	150.	128.	15	20

Form 6
Lab Duplicates

Client	: Partner Engineering & Science, Inc.	Lab Number	: L2335541
Project Name	: AVANT GARDNER	Project Number	: ES22-387153
Client Sample ID	: 8B-1NN-GW	Matrix	: WATER
Lab Sample ID	: L2335541-02	Analysis Date	: 07/12/23 18:43
Dup Sample ID	: WG1801416-4	DUP Analysis Date	: 07/12/23 19:03

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Dissolved	0.00065	0.00149	77 Q	20

Field Duplicate Calculation Section

TAL Metals

Calculations for Field Duplicate Relative Percent Difference (RPD)
SDG No. L2335541

S1= 8B-1W (6.5-7.0) **S2=** 8B-1W (6.5-7.0) DUP

Analyte	S1	S2	RPD (%)	
aluminum	9710	5100	62%	*
antimony	51.1	8.56	143%	*
arsenic	20.1	17.6	13%	
barium	455	175	89%	*
beryllium	0.918	**0.299**	NC	
cadmium	1.65	**0.901**	NC	
calcium	21000	8420	86%	*
chromium	83.6	13.9	143%	*
cobalt	10.8	6.24	54%	*
copper	214	130	49%	*
iron	53400	28100	62%	*
lead	658	604	9%	
magnesium	2910	3770	26%	
manganese	802	252	104%	*
mercury	14.1	0.946	175%	*
nickel	37.2	12.9	97%	*
potassium	1080	535	67%	*
selenium	**1.78**	**1.00**	NC	
silver	ND	**0.512**	NC	
sodium	680	**150**	NC	
thallium	**1.47**	**0.531**	NC	
vanadium	35.9	17.8	67%	*
zinc	2240	406	139%	*
Arsenic, TCLP	**0.0531**	**	NC	
Barium, TCLP	0.812	**	NC	
Cadmium, TCLP	ND	**	NC	
Chromium, TCLP	ND	**	NC	
Lead, TCLP	**0.188**	**	NC	
Selenium, TCLP	ND	**	NC	
Silver, TCLP	ND	**	NC	
Mercury, TCLP	ND	**	NC	

* RPD is above the allowable maximum 35%.
** sample not analyzed

Results are in units of mg/Kg.

Bold numbers were values that are below the CRDL.
ND - Not detected.
NC - Not calculated, both results must be above the CRDL for valid RPDs to be calculated.

Alpha Geoscience: Acronyms and Definitions

Data Validation Acronyms

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene
CCB	Continuing calibration blank
CCC	Calibration check compound
CCV	Continuing calibration verification
CN	Cyanide
CRDL	Contract required detection limit
CRQL	Contract required quantitation limit
CVAA	Atomic adsorption, cold vapor technique
DCAA	2,4-Dichlophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine
ECD	Electron capture detector
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
GPC	Gel permeation chromatography
ICB	Initial calibration blank
ICP	Inductively coupled plasma-atomic emission spectrometer
ICV	Initial calibration verification
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate
MSA	Method of standard additions
MS/MSD	Matrix spike/matrix spike duplicate
PID	Photo ionization detector
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
QA	Quality assurance
QC	Quality control
RF	Response factor
RPD	Relative percent difference
RRF	Relative response factor
RRF(number)	Relative response factor at concentration of the number following
RT	Retention time
RRT	Relative retention time
SDG	Sample delivery group
SPCC	System performance check compound
TCX	Tetrachloro-m-xylene
%D	Percent difference
%R	Percent recovery
%RSD	Percent relative standard deviation

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

U	=	Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
R	=	Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
N	=	Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
J	=	Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
J-	=	Analyte is present. Reported value may be biased low and associated with a higher level of uncertainty than is normally expected with the analytical method.
J+	=	Analyte is present. Reported value may be biased high andassociated with a higher level of uncertainty than is normally expected with the analytical method.
UJ	=	Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.

APPENDIX C: NOTICE OF NO SIGNIFICANT THREAT

PSG

FACT SHEET

Brownfield Cleanup Program

Avant Gardner
140 Stewart Avenue &
111 Gardner Avenue
Brooklyn, NY 11237

SITE No. C224258
NYSDEC REGION 2

February 2024

Remedy Proposed for Brownfield Site Contamination; Public Comment Period Announced

The public is invited to comment on a proposed remedy being reviewed by the New York State Department of Environmental Conservation (NYSDEC), in consultation with the New York State Department of Health (NYSDOH), to address contamination related to the Avant Gardner site ("site") located at 140 Stewart Avenue & 111 Gardner Avenue, Brooklyn, NY. Please see the map for the site location.

Based on the findings of the investigation, NYSDEC in consultation with NYSDOH has determined that the site does not pose a significant threat to public health or the environment.

How to Comment: NYSDEC is accepting written comments about the proposed plan, called a "Draft Remedial Action Work Plan (RAWP)" for 45 days, from **February 29, 2024 through April 14, 2024**.

- Access the RAWP and other project documents online through the DECinfo Locator: https://www.dec.ny.gov/data/DecDocs/C224258/.
- Documents also are available at the location(s) identified at left under "Where to Find Information."
- Please submit comments to the NYSDEC project manager listed under Project-Related Questions in the "Who to Contact" area at left.

Draft Remedial Work Plan: The proposed remedy for this site is a Track 4 Commercial Use cleanup and consists of:

- Excavation and off-site disposal of soil exceeding the protection of groundwater soil cleanup objectives (SCOs) for chlorinated volatile organic compound (CVOC) in the unsaturated zone;
- Implementation of an in-situ (i.e. in place) chemical remediation to address CVOC impacts in saturated soil and groundwater at the site;
- Collection of post-remedial soil and groundwater samples to evaluate the effectiveness of the remedy;
- Importation of clean materials that meet the established SCOs for use a backfill;
- Maintenance of a site cover system consisting of the existing concrete building slabs and asphalt pavement on exterior open areas of the site to address remaining soil contamination;
- Continued operation, maintenance and monitoring of vapor mitigation systems which were previously installed on the two on-site buildings under an approved Interim Remedial Measures Work Plan;

Where to Find Information

Access project documents through the DECinfo Locator and at these location(s): https://www.dec.ny.gov/data/DecDocs/C224258/

Bushwick Library
340 Bushwick Avenue
Brooklyn, New York 11206
(718) 602-1348

Brooklyn Community Board 1
435 Graham Avenue
Brooklyn, New York 11211
(718) 389-0009
bk01@cb.nyc.gov

Who to Contact

Comments and questions are welcome and should be directed as follows:

Project-Related Questions
Mandy Yau, Project Manager
NYSDEC
47-40 21st Street
Long Island City, New York 11101
(718) 482-7778
mandy.yau@dec.ny.gov

Project-Related Health Questions
Sara Bogardus
NYSDOH
Bureau of Env. Exposure Investigation
Empire State Plaza
Corning Tower, Room 1787
Albany, New York 12237
(518) 473-9800
sara.bogardus@health.ny.gov

For more information about New York's Brownfield Cleanup Program, visit:
www.dec.ny.gov/chemical/8450.html

BROWNFIELD CLEANUP PROGRAM

- Implementation of a Site Management Plan (SMP) for long term maintenance of the remedial systems; and
- Implementation of a Health and Safety Plan and Community Air Monitoring Plan during all ground intrusive activities
- Recording of an Environmental Easement to ensure proper use of the site.

The proposed remedy was developed by Stewart Purchaser LLC and Gardner Purchaser LLC ("applicants") after performing a detailed investigation of the site under New York's Brownfield Cleanup Program (BCP). A "Remedial Investigation Report", which describes the results of the site investigation is also available for review at the locations identified on Page 1.

Next Steps: NYSDEC will consider public comments, revise the cleanup plan as necessary, and issue a final Decision Document. NYSDOH must concur with the proposed remedy. After approval, the proposed remedy becomes the selected remedy. The applicants may then design and perform the cleanup action to address the site contamination, with oversight by NYSDEC and NYSDOH.

NYSDEC will keep the public informed throughout the investigation and cleanup of the site.

Site Description: The site is 1.85-acres and is bordered by Meserole Street to the north, Gardner Avenue to the east, the Long Island Railroad to the south, and Stewart Avenue to the west. The site previously housed steel fabrication operations and a rubbish removal service. From 2000 to 2013, Filco Carting utilized a portion of the 111 Gardner Avenue building and adjacent paved area as a truck maintenance garage for routine maintenance and repair of trucks. Historical activities included a chemical company/liquid bleach manufacturer that operated from at least 1933 to 1992. The site is currently operated as an entertainment/music venue. No change in the current use of the site is planned.

Additional site details, including environmental and health assessment summaries, are available on NYSDEC's Environmental Site Remediation Database (by entering the site ID, C224258) at:
https://www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=3

Summary of the Investigation: The primary contaminants of concern at the site are CVOCs and historic fill related impacts which are present site-wide in soil, groundwater and soil vapor.

Brownfield Cleanup Program: New York's Brownfield Cleanup Program (BCP) encourages the voluntary cleanup of contaminated properties known as "brownfields" so that they can be reused and redeveloped. These uses may include recreation, housing, business, or other uses. A brownfield site is any real property where a contaminant is present at levels exceeding the soil cleanup objectives or other health-based or environmental standards, criteria or guidance adopted by NYSDEC that are applicable based on the reasonably anticipated use of the property, in accordance with applicable regulations.

For more information about the BCP, visit:
https://www.dec.ny.gov/chemical/8450.html

We encourage you to share this fact sheet with neighbors and tenants, and/or post this fact sheet in a prominent area of your building for others to see.

Stay Informed With DEC Delivers
Sign up to receive site updates by email:
www.dec.ny.gov/chemical/61092.html

Note: Please disregard if you already have signed up and received this fact sheet electronically.

DECinfo Locator
Interactive map to access DEC documents and public data about the environmental quality of specific sites:
https://www.dec.ny.gov/pubs/109457.html

BROWNFIELD CLEANUP PROGRAM

Site Location

NEW YORK STATE | Department of Environmental Conservation

Kathy Hochul, Governor | **Basil Seggos**, Commissioner www.dec.ny.gov

Translation Available. Don't see your language? Ask!

English	To have this document translated into a language you can understand, contact the person below. There is no charge for the translation.
Español **Spanish**	Si necesita la traducción de este documento a un idioma que pueda entender, comuníquese con la persona indicada abajo. La traducción es gratis.
简体字 **Simplified Chinese**	如需將此文件翻譯成您能理解的語言版本，請聯絡下方人員。本次翻譯不收取費用。
Русский **Russian**	Чтобы получить перевод этого документа на понятный вам язык, свяжитесь с представителем, данные которого указаны ниже. Плата за эту услугу не взимается.
אידיש **Yiddish**	צו האבן די דאקומענט איבערגעטייטשט אין א שפראך וואס איר קענט פארשטיין, פארבינדט זיך מיט די פערזאן אונטן. די איבערטייטשונג איז פריי פון אפצאל.
বাঙালি **Bengali**	এই নথিটি আপনি বুঝতে পারেন এমন একটি ভাষায় অনুবাদ করতে, নিম্নলিখিত ব্যক্তির সাথে যোগাযোগ করুন। অনুবাদের জন্য কোন চার্জ দিতে হবে না।
한국어 **Korean**	이 언어를 본인이 이해할 수 있는 언어로 받아보려면 아래 담당자에게 문의하십시오. 번역료는 없습니다.
Kreyòl Ayisyen **Haitian Creole**	Pou yo ka tradwi dokiman sa nan yon lang ou ka konprann, kontakte moun ki anba a. Ou p'ap peye anyen pou tradiksyon an.
Italiano **Italian**	Per ottenere la traduzione di questo documento in un'altra lingua, contatti la persona indicata qui di seguito. La traduzione è gratuita.
العربية **Arabic**	لترجمة هذا المستند إلى لغة يمكنك فهمها، تواصل مع الشخص أدناه. لا يتم تطبيق رسوم مقابل الترجمة.
Języky Polski **Polish**	Aby uzyskać tłumaczenie tego dokumentu na język, który jest dla Ciebie zrozumiały, skontaktuj się z poniższą osobą. Za tłumaczenie nie jest pobierana żadna opłata.

Contact: Mandy Yau, 718-482-7778, and mandy.yau@dec.ny.gov

APPENDIX D: SSDS DOCUMENTATION

PSG

NYCO Environmental & Dewatering Corp.

May 20, 2016

Aaron van Schaik
Cayuga Capital Management LLC
217 Havemeyer Street, 4th Floor
Brooklyn, NY 11211

RE: Sub-Slab Depressurization System Results
140 Stewart Avenue
Brooklyn, New York

Dear Mr. van Schaik:

NYCO Environmental & Dewatering Corp. (NYCO) activated the sub-slab depressurization system (SSDS) installed at the subject property on Monday, May 16, 2016. Subsequent to activation, NYCO collected air quality and vacuum data to confirm operational effectiveness of the system. The initial air quality data was collected on Tuesday, May 17th to confirm background air quality and to establish a baseline to which subsequent air quality data can be compared. A total of two background samples (samples Background 1 and 2) were collected. Additional air samples were collected on May 19th to confirm the effectiveness of the SSDS. These samples were taken from below the slab (samples Sub Slab 1 and 2), the indoor air (samples Inside 1 and 2), and the outdoor, ambient air (samples Outside 1 and 2). All air samples were collected via summa canisters equipped with eight-hour regulators. The summa canisters were then submitted to York Analytical Laboratories (York) of Stratford, Connecticut for analysis. The laboratory results of the samples collected are presented on **Table 1**. The laboratory analytical data packages for the two sampling events are included under **Attachments**. As indicated on Table 1, there were no exceedances of New York State Department of Health (NYSDOH) Guidance Values in the samples collected above the floor slab inside the building on May 17th and 19th.

In addition to the air sampling activities, NYCO collected vacuum readings from the SSDS on Wednesday, May 18th to confirm operational effectiveness and ensure a sufficient vacuum Radius of Influence (ROI) within the area of concern. In general, the vacuum readings of the north system ranged from 0.9 – 1.2 inches of water column (“wc), the vacuum readings of the middle system ranged from 0.5 – 2.0 “ wc, and the vacuum readings from the south system ranged from 0.5 to 1.7 “wc. Based on this information, the SSDS is operating efficiently and providing sufficient ROI to address the sub slab vapor.

Should you have any questions or require additional information, please do not hesitate to contact me at (631) 786-3323.

Sincerely,

Matt Durcan
Vice President

TABLES

TABLE 1

140 Stewart Avenue

Summary of Air Sampling Data

Indoor Air Results	Background 1 5/17/2016	Background 2 5/17/20016	Sub Slab 1 5/19/2016	Sub Slab 2 5/19/2016	Inside 1 5/19/2016	Inside 2 5/19/2016	Outside 1 5/19/2016	Outside 2 5/19/2016	NYSDOH Guidance value
benzene	1.3	1.5	66	11	3	5.5	0.89	0.83	NC
toluene	9.3	9.2	300	21	10	16	4.6	5	NC
ethylbenzene	0.63	0.78	83	15	1.4	2.3	0.65	0.52	NC
mp-xylene	2.2	2.3	300	30	5.8	9.4	2.5	2.1	NC
o-xylene	0.81	1.2	130	15	2.3	3.9	0.82	0.75	NC
tetrachloroethylene	1.1	1.1	**54**	5.8	1.7	2.4	0.68	0.66	30
trichloroethylene	0.14	0.13	**3.6**	**4.6**	0.16	0.17	0.13	0.15	2
methylene chloride	5.6	5.3	**100**	24	4	1.9	1.9	25	60

All results report in micrograms per cubic meter (ug/m3)

NC = No NYSDOH criterion available for this compound

Bold data indicates an exceedance of the NYSDOH Guidance Value set for this compound.

NYCO

MAPS

THE OFFSETS OR DIMENSIONS SHOWN FROM THE STRUCTURES TO THE PROPERTY LINES ARE FOR A SPECIFIC PURPOSE AND USE AND THEREFORE ARE NOT INTENDED TO GUIDE THE ERECTION OF FENCES, RETAINING WALLS, POOLS, PLANTING AREAS, ADDITIONS TO STRUCTURES AND ANY OTHER CONSTRUCTION.

Job No. RLS1511394

THE EXISTENCE OF RIGHT OF WAYS AND/OR EASEMENTS OF RECORD, IF ANY, NOT SHOWN ARE NOT CERTIFIED.

MESEROLE STREET

60' WIDE

200'-0"

0.20'E
0.30'N

C.L.F. WITH METAL SHEET

0.60'N

90°

GATE

METAL FENCE

CONC. PVMT.

6 PARKING SPACES

16.27

7.96

METAL SHED

7.93

METAL FENCE

GATE

0.10'W
48.77'S

140.23

ENTR.

ENTR.

48.66'S

Outside 1

Inside 1

Background 1

North System

Sub Slab 1

ENTR.

ENTR.

METAL DOOR

1.64'W

ENTR.

151.23

HIGH 1 STORY
STUCCO
COMMERCIAL

#140

154.28

Inside 2

Middle System

Background 2

Sub Slab 2

ENTR.

South System

Outside 2

METAL DOOR

STEWART AVENUE

60' WIDE

200'-0"

CONC. PVMT.

CONC. PVMT.

200'-0"

PARALLEL WITH STEWART AVENUE

CENTER LINE OF THE BLOCK

O/L
O/L

100.16

0.16'N

2.94'S

40.32

2.23'S

C.L.F.

0.16'E
0.86'N

METAL FENCE ON
12" CONC. WALL

0.18'W
4.52'S

METAL FENCE

TAX MAP LINE

1.00'E

C.L.F.

FINAL MAP LINE

EARTHEN GROUND

EARTHEN GROUND

200'-0"

PARALLEL WITH MESEROLE STREET

LONG ISLAND RAIL ROAD

Note: All Air Sample Locations and SSDS Trenches are Approximate

LEGEND:

CELLAR ENTRANCE — C.E.
CHAIN LINK FENCE — C.L.F.
PLATFORM — PLT.
PAVEMENT — PVMT.
EARTHEN GROUND — E.G.
CONCRETE — CONC.
OVER HEAD SERVICE WIRE — O.H.S.W.
METALDOOR — M.D.
METAL COVER — M.C.
FIRE ESCAPE — F.E.
UTILITY POLE — ⊙
LOWER LEVEL — L.L.
AREA WAY — A.W.
AIR CONDITIONER — A.C.
ROOF OVER — R.O.
METAL FENCE — M.F.
VINYL FENCE — V.F.
OPEN PORCH — O.P.
WOOD FENCE — W.F.
ON LINE — O/L

SURVEY OF: *Described Property*
LOCATED AT:
140 Stewart Avenue, Brooklyn
County of Kings
City and State of New York

TAX DESIG: *Block 2977 Lot 1*

CERTIFIED TO:

–Stewart Purchaser LLC,
–Lincoln Land Services, LLC,
–Stewart Title Insurance Company

ROGUSKI
LAND SURVEYING. P.C.
TITLE • ARCHITECTURAL • BOUNDARY • CONSTRUCTION

60–17 56th DRIVE, MASPETH, N.Y. 11378
Tel. • (718)480–3761 • Fax. • (718)480–3762 •
Email • info@roguskils.net•

SZCZEPAN H. ROGUSKI
PROFESSIONAL LAND SURVEYOR

TITLE No.: *31402–LLS–K*

DATE: *January 7, 2016*

SCALE: *1"=20'*

DRAWN: BK

UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYOR'S INKED SEAL OR EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY.

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NYCO

ATTACHMENTS

Technical Report

prepared for:

NYCO Environmental & Dewatering Corp.
200 Blydenburg Road, Suite 19
Islandia NY, 11749
Attention: Marcello Iaboni

Report Date: 05/19/2016
Client Project ID: 140 Stewart Ave
York Project (SDG) No.: 16E0730

Report Date: 05/19/2016
Client Project ID: 140 Stewart Ave
York Project (SDG) No.: 16E0730

NYCO Environmental & Dewatering Corp.
200 Blydenburg Road, Suite 19
Islandia NY, 11749
Attention: Marcello Iaboni

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 18, 2016 and listed below. The project was identified as your project: **140 Stewart Ave**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
16E0730-01	Background 1	Indoor Ambient Air	05/17/2016	05/18/2016
16E0730-02	Background 2	Indoor Ambient Air	05/17/2016	05/18/2016

General Notes for York Project (SDG) No.: 16E0730

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 05/19/2016

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **Background 1** **York Sample ID:** **16E0730-01**

Sampling Media ID: CAN 18305/ FC 3541

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0730	140 Stewart Ave	Indoor Ambient Air	May 17, 2016 3:00 pm	05/18/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.71	0.71	1.038	EPA TO-15 Certifications:	05/18/2016 12:26	05/19/2016 08:39	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.57	0.57	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.71	0.71	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.80	0.80	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.57	0.57	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.42	0.42	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.41	0.41	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.77	0.77	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**0.71**		ug/m³	0.51	0.51	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.80	0.80	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.62	0.62	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.42	0.42	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.48	0.48	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.73	0.73	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.51	0.51	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.69	0.69	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.62	0.62	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.48	0.48	1.038	EPA TO-15 Certifications:	05/18/2016 12:26	05/19/2016 08:39	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.62	0.62	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.75	0.75	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
78-93-3	**2-Butanone**	**2.4**		ug/m³	0.31	0.31	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	0.85	0.85	1.038	EPA TO-15 Certifications:	05/18/2016 12:26	05/19/2016 08:39	LDS
107-05-1	3-Chloropropene	ND		ug/m³	1.6	1.6	1.038	EPA TO-15 Certifications: NELAC-NY10854	05/18/2016 12:26	05/19/2016 08:39	LDS

Sample Information

Client Sample ID: **Background 1** **York Sample ID:** **16E0730-01**

Sampling Media ID: CAN 18305/ FC 3541

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0730	140 Stewart Ave	Indoor Ambient Air	May 17, 2016 3:00 pm	05/18/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.43	0.43	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
67-64-1	**Acetone**	**20**		ug/m³	0.49	0.49	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.23	0.23	1.038	EPA TO-15 Certifications: NELAC-NY10854	05/18/2016 12:26	05/19/2016 08:39	LDS
71-43-2	**Benzene**	**1.3**		ug/m³	0.33	0.33	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.54	0.54	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.70	0.70	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
75-25-2	Bromoform	ND		ug/m³	1.1	1.1	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
74-83-9	Bromomethane	ND		ug/m³	0.40	0.40	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
75-15-0	**Carbon disulfide**	**9.2**		ug/m³	0.32	0.32	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	0.16	0.16	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.48	0.48	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
75-00-3	Chloroethane	ND		ug/m³	0.27	0.27	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
67-66-3	Chloroform	ND		ug/m³	0.51	0.51	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
74-87-3	**Chloromethane**	**1.2**		ug/m³	0.21	0.21	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.41	0.41	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.47	0.47	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.36	0.36	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.88	0.88	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
75-71-8	**Dichlorodifluoromethane**	**2.0**		ug/m³	0.51	0.51	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
141-78-6	*** Ethyl acetate**	**1.4**		ug/m³	0.75	0.75	1.038	EPA TO-15 Certifications:	05/18/2016 12:26	05/19/2016 08:39	LDS
100-41-4	**Ethyl Benzene**	**0.63**		ug/m³	0.45	0.45	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.1	1.1	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
67-63-0	Isopropanol	ND		ug/m³	0.51	0.51	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS

Sample Information

Client Sample ID: **Background 1** **York Sample ID:** **16E0730-01**

Sampling Media ID: CAN 18305/ FC 3541

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0730	140 Stewart Ave	Indoor Ambient Air	May 17, 2016 3:00 pm	05/18/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m³	0.42	0.42	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.37	0.37	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
75-09-2	**Methylene chloride**	**5.6**		ug/m³	0.72	0.72	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
142-82-5	**n-Heptane**	**1.7**		ug/m³	0.43	0.43	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
110-54-3	**n-Hexane**	**1.3**		ug/m³	0.37	0.37	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
95-47-6	**o-Xylene**	**0.81**		ug/m³	0.45	0.45	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
179601-23-1	**p- & m- Xylenes**	**2.2**		ug/m³	0.90	0.90	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
622-96-8	*** p-Ethyltoluene**	**0.71**		ug/m³	0.51	0.51	1.038	EPA TO-15 Certifications:	05/18/2016 12:26	05/19/2016 08:39	LDS
115-07-1	*** Propylene**	**5.2**		ug/m³	0.18	0.18	1.038	EPA TO-15 Certifications:	05/18/2016 12:26	05/19/2016 08:39	LDS
100-42-5	Styrene	ND		ug/m³	0.44	0.44	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
127-18-4	**Tetrachloroethylene**	**1.1**		ug/m³	0.18	0.18	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.61	0.61	1.038	EPA TO-15 Certifications:	05/18/2016 12:26	05/19/2016 08:39	LDS
108-88-3	**Toluene**	**9.3**		ug/m³	0.39	0.39	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.41	0.41	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.47	0.47	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.14	0.14	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.3**		ug/m³	0.58	0.58	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.37	0.37	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.45	0.45	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.27	0.27	1.038	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 08:39	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*72-118*

Sample Information

Client Sample ID: **Background 2** **York Sample ID:** **16E0730-02**

Sampling Media ID: CAN 18299/ FC 7364

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0730	140 Stewart Ave	Indoor Ambient Air	May 17, 2016 3:00 pm	05/18/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.69	0.69	1	EPA TO-15 Certifications:	05/18/2016 12:26	05/19/2016 09:40	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.74	0.74	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**1.1**		ug/m³	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.70	0.70	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.66	0.66	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.46	0.46	1	EPA TO-15 Certifications:	05/18/2016 12:26	05/19/2016 09:40	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.72	0.72	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
78-93-3	**2-Butanone**	**2.7**		ug/m³	0.29	0.29	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	0.82	0.82	1	EPA TO-15 Certifications:	05/18/2016 12:26	05/19/2016 09:40	LDS
107-05-1	3-Chloropropene	ND		ug/m³	1.6	1.6	1	EPA TO-15 Certifications: NELAC-NY10854	05/18/2016 12:26	05/19/2016 09:40	LDS

Sample Information

Client Sample ID: **Background 2** **York Sample ID:** **16E0730-02**

Sampling Media ID: CAN 18299/ FC 7364

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0730	140 Stewart Ave	Indoor Ambient Air	May 17, 2016 3:00 pm	05/18/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
67-64-1	**Acetone**	**27**		ug/m³	0.48	0.48	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.22	0.22	1	EPA TO-15 Certifications: NELAC-NY10854	05/18/2016 12:26	05/19/2016 09:40	LDS
71-43-2	**Benzene**	**1.5**		ug/m³	0.32	0.32	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.52	0.52	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.67	0.67	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
75-25-2	Bromoform	ND		ug/m³	1.0	1.0	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
74-83-9	Bromomethane	ND		ug/m³	0.39	0.39	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.31	0.31	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	0.16	0.16	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
75-00-3	Chloroethane	ND		ug/m³	0.26	0.26	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
67-66-3	Chloroform	ND		ug/m³	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
74-87-3	**Chloromethane**	**1.7**		ug/m³	0.21	0.21	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.45	0.45	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
110-82-7	**Cyclohexane**	**0.55**		ug/m³	0.34	0.34	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.85	0.85	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
75-71-8	**Dichlorodifluoromethane**	**2.4**		ug/m³	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
141-78-6	*** Ethyl acetate**	**1.3**		ug/m³	0.72	0.72	1	EPA TO-15 Certifications:	05/18/2016 12:26	05/19/2016 09:40	LDS
100-41-4	**Ethyl Benzene**	**0.78**		ug/m³	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.1	1.1	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS
67-63-0	Isopropanol	ND		ug/m³	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/18/2016 12:26	05/19/2016 09:40	LDS

Sample Information

Client Sample ID: **Background 2** **York Sample ID:** **16E0730-02**

Sampling Media ID: CAN 18299/ FC 7364

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0730	140 Stewart Ave	Indoor Ambient Air	May 17, 2016 3:00 pm	05/18/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m³	0.41	0.41	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.36	0.36	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
75-09-2	**Methylene chloride**	**5.3**		ug/m³	0.69	0.69	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
142-82-5	**n-Heptane**	**1.9**		ug/m³	0.41	0.41	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
110-54-3	**n-Hexane**	**1.7**		ug/m³	0.35	0.35	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
95-47-6	**o-Xylene**	**1.2**		ug/m³	0.43	0.43	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
179601-23-1	**p- & m- Xylenes**	**3.1**		ug/m³	0.87	0.87	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
622-96-8	*** p-Ethyltoluene**	**1.0**		ug/m³	0.49	0.49	1	EPA TO-15 Certifications:	05/18/2016 12:26	05/19/2016 09:40	LDS
115-07-1	*** Propylene**	**6.1**		ug/m³	0.17	0.17	1	EPA TO-15 Certifications:	05/18/2016 12:26	05/19/2016 09:40	LDS
100-42-5	**Styrene**	**0.81**		ug/m³	0.43	0.43	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
127-18-4	**Tetrachloroethylene**	**1.1**		ug/m³	0.17	0.17	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.59	0.59	1	EPA TO-15 Certifications:	05/18/2016 12:26	05/19/2016 09:40	LDS
108-88-3	**Toluene**	**9.2**		ug/m³	0.38	0.38	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.40	0.40	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.45	0.45	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.13	0.13	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.4**		ug/m³	0.56	0.56	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.35	0.35	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.44	0.44	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.26	0.26	1	EPA TO-15 Certifications:	05/18/2016 12:26 NELAC-NY10854,NJDEP	05/19/2016 09:40	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*101 %*	*72-118*

Analytical Batch Summary

Batch ID: BE60915 **Preparation Method:** EPA TO15 PREP **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
16E0730-01	Background 1	05/18/16
16E0730-02	Background 2	05/18/16
BE60915-BLK1	Blank	05/18/16
BE60915-BS1	LCS	05/18/16

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE60915 - EPA TO15 PREP											
Blank (BE60915-BLK1)											Prepared & Analyzed: 05/18/2016
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.40	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.40	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								
n-Hexane	ND	0.35	"								

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE60915 - EPA TO15 PREP											
Blank (BE60915-BLK1)								Prepared & Analyzed: 05/18/2016			
o-Xylene	ND	0.43	ug/m³								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.26	"								
Surrogate: p-Bromofluorobenzene	*9.60*		*ppbv*	*10.0*		*96.0*	*72-118*				
LCS (BE60915-BS1)								Prepared & Analyzed: 05/18/2016			
1,1,1,2-Tetrachloroethane	11.7		ppbv	10.0		117	82-126				
1,1,1-Trichloroethane	10.9		"	10.0		109	70-130				
1,1,2,2-Tetrachloroethane	11.3		"	10.0		113	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	70-130				
1,1,2-Trichloroethane	11.3		"	10.0		113	70-130				
1,1-Dichloroethane	10.8		"	10.0		108	70-130				
1,1-Dichloroethylene	11.2		"	10.0		112	70-130				
1,2,4-Trichlorobenzene	9.85		"	10.0		98.5	70-130				
1,2,4-Trimethylbenzene	12.9		"	10.0		129	70-130				
1,2-Dibromoethane	12.0		"	10.0		120	70-130				
1,2-Dichlorobenzene	12.3		"	10.0		123	70-130				
1,2-Dichloroethane	10.9		"	10.0		109	70-130				
1,2-Dichloropropane	11.5		"	10.0		115	70-130				
1,2-Dichlorotetrafluoroethane	11.3		"	10.0		113	70-130				
1,3,5-Trimethylbenzene	12.2		"	10.0		122	70-130				
1,3-Butadiene	11.4		"	10.0		114	70-130				
1,3-Dichlorobenzene	12.2		"	10.0		122	70-130				
1,3-Dichloropropane	11.8		"	10.0		118	70-130				
1,4-Dichlorobenzene	12.6		"	10.0		126	70-130				
1,4-Dioxane	17.5		"	10.0		175	70-130	High Bias			
2-Butanone	11.5		"	10.0		115	70-130				
2-Hexanone	12.5		"	10.0		125	70-130				
3-Chloropropene	11.6		"	10.0		116	70-130				
4-Methyl-2-pentanone	14.6		"	10.0		146	70-130	High Bias			
Acetone	9.60		"	10.0		96.0	70-130				
Acrylonitrile	11.3		"	10.0		113	70-130				
Benzene	10.7		"	10.0		107	70-130				
Benzyl chloride	9.80		"	10.0		98.0	70-130				
Bromodichloromethane	12.0		"	10.0		120	70-130				
Bromoform	12.0		"	10.0		120	70-130				
Bromomethane	10.5		"	10.0		105	70-130				
Carbon disulfide	11.2		"	10.0		112	70-130				
Carbon tetrachloride	11.3		"	10.0		113	70-130				
Chlorobenzene	10.8		"	10.0		108	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE60915 - EPA TO15 PREP											
LCS (BE60915-BS1)								Prepared & Analyzed: 05/18/2016			
Chloroethane	11.4		ppbv	10.0		114	70-130				
Chloroform	10.6		"	10.0		106	70-130				
Chloromethane	11.0		"	10.0		110	70-130				
cis-1,2-Dichloroethylene	10.3		"	10.0		103	70-130				
cis-1,3-Dichloropropylene	12.6		"	10.0		126	70-130				
Cyclohexane	11.6		"	10.0		116	70-130				
Dibromochloromethane	12.5		"	10.0		125	70-130				
Dichlorodifluoromethane	12.3		"	10.0		123	70-130				
Ethyl acetate	11.4		"	10.0		114	70-130				
Ethyl Benzene	11.8		"	10.0		118	70-130				
Hexachlorobutadiene	13.0		"	10.0		130	70-130				
Isopropanol	10.8		"	10.0		108	70-130				
Methyl Methacrylate	12.7		"	10.0		127	70-130				
Methyl tert-butyl ether (MTBE)	11.5		"	10.0		115	70-130				
Methylene chloride	9.81		"	10.0		98.1	70-130				
n-Heptane	12.4		"	10.0		124	70-130				
n-Hexane	10.9		"	10.0		109	70-130				
o-Xylene	12.8		"	10.0		128	70-130				
p- & m- Xylenes	24.0		"	20.0		120	70-130				
p-Ethyltoluene	12.7		"	10.0		127	70-130				
Propylene	10.9		"	10.0		109	70-130				
Styrene	11.8		"	10.0		118	70-130				
Tetrachloroethylene	11.1		"	10.0		111	70-130				
Tetrahydrofuran	11.5		"	10.0		115	70-130				
Toluene	11.5		"	10.0		115	70-130				
trans-1,2-Dichloroethylene	11.0		"	10.0		110	70-130				
trans-1,3-Dichloropropylene	12.8		"	10.0		128	70-130				
Trichloroethylene	11.5		"	10.0		115	70-130				
Trichlorofluoromethane (Freon 11)	10.9		"	10.0		109	70-130				
Vinyl acetate	12.0		"	10.0		120	70-130				
Vinyl bromide	11.1		"	10.0		111	70-130				
Vinyl Chloride	11.7		"	10.0		117	70-130				
Surrogate: p-Bromofluorobenzene	*10.5*		*"*	*10.0*		*105*	*72-118*				

Notes and Definitions

QL-03	This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
CCV-A	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to dectected analytes only.

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*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

646
895
2646

Field Chain-of-Custody Record - AIR

Page ___ of ___

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 16E0730

YOUR Information	Report To:	Invoice To:	YOUR Project ID
Company: NYCO Environmental	Company: NYCO Environmental	Company: NYCO Environmental	140 Stewart ave
Address: 220 Bluydenburg rd Suite 19 Islandia NY 11749	Address:	Address: 220 Bluydenburg rd Suite 19 Islandia 11749	
Phone No. 6468952646	Phone No. 631 8351188	Phone No.	**Purchase Order No.** X
Contact Person: James O'Hara	Attention: Marcello Tabani Marcello@nycoenv.com	Attention: Matt Durcan	
E-Mail Address: james@nycoenv.com	E-Mail Address: James@ "@ Mdurcan@	E-Mail Address: Mdurcan@NYCOenv.com	Samples from: CT___ NY ✓ NJ___

Turn-Around Time

- RUSH - Same Day ✓
- RUSH - Next Day ✓
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard(5-7 Days)

Report Type/Deliverables

- Summary Report ✓
- Summary w/ QA Summary ✓
- CT RCP Package
- NY ASP A Package
- NY ASP B/CLP Pkg
- NJDEP Reduced
- *Electronic Deliverables:*
- EDD (Specify Type)
- Standard Excel
- Regulatory Comparison Excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

James O'Hara
Samples Collected/Authorized By (Signature)

James O'Hara
Name (printed)

Air Matrix Codes

AI - INDOOR Ambient Air
AO- OUTDOOR Amb. Air
AE- Vapor Extraction Well/ Process Gas/Effluent
AS- SOIL Vapor/Sub-Slab

Additional Notes:

Please enter the following Field Data

Detection Limits Required

≤ 1 ug/m³ ___
NYSDEC VI Limits ___
(VI =vapor instrusion)
NJDEP low level ___
Routine Survey ___
Other ___

Special Instructions

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont.ID	ANALYSES REQUESTED	Sampling Media
	5/17/16	AI	30	5	18305	3541	Epa TO15 full list	6 Liter canister ✓ / Tedlar Bag
	5/17/16	AI	30	4	18299	7364		6 Liter canister ✓ / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag
								6 Liter canister / Tedlar Bag

Comments

James O'Hara 5/18/16 8:30 am
Samples Relinquished By Date/Time

Samples Relinquished By Date/Time

K Bader 5-18-16 8:30 am
Samples Received By Date/Time

PGrace 5-18-16 1913
Samples Received in LAB by Date/Time

Technical Report

prepared for:

NYCO Environmental & Dewatering Corp.
200 Blydenburg Road, Suite 19
Islandia NY, 11749
Attention: Marcello Iaboni

Report Date: 05/20/2016
Client Project ID: 140 Stewart Ave.
York Project (SDG) No.: 16E0796

Report Date: 05/20/2016
Client Project ID: 140 Stewart Ave.
York Project (SDG) No.: 16E0796

NYCO Environmental & Dewatering Corp.
200 Blydenburg Road, Suite 19
Islandia NY, 11749
Attention: Marcello Iaboni

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 19, 2016 and listed below. The project was identified as your project: **140 Stewart Ave.**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
16E0796-01	Sub Slab 1	Soil Vapor	05/19/2016	05/19/2016
16E0796-02	Sub Slab 2	Soil Vapor	05/19/2016	05/19/2016
16E0796-03	Inside 1	Indoor Ambient Air	05/19/2016	05/19/2016
16E0796-04	Inside 2	Indoor Ambient Air	05/19/2016	05/19/2016
16E0796-05	Outside 1	Outdoor Ambient Ai	05/19/2016	05/19/2016
16E0796-06	Outside 2	Outdoor Ambient Ai	05/19/2016	05/19/2016

General Notes for York Project (SDG) No.: 16E0796

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 05/20/2016

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **Sub Slab 1** **York Sample ID:** **16E0796-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Soil Vapor	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	18	18	26.67	EPA TO-15 Certifications:	05/19/2016 18:47	05/19/2016 18:47	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	15	15	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	18	18	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	20	20	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	15	15	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	11	11	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	11	11	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	20	20	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**150**		ug/m³	13	13	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	20	20	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	16	16	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	11	11	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	12	12	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	19	19	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
108-67-8	**1,3,5-Trimethylbenzene**	**33**		ug/m³	13	13	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	18	18	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	16	16	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	12	12	26.67	EPA TO-15 Certifications:	05/19/2016 18:47	05/19/2016 18:47	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	16	16	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	19	19	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
78-93-3	**2-Butanone**	**110**		ug/m³	7.9	7.9	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	22	22	26.67	EPA TO-15 Certifications:	05/19/2016 18:47	05/19/2016 18:47	LDS

Sample Information

Client Sample ID: **Sub Slab 1** **York Sample ID:** **16E0796-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Soil Vapor	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	42	42	26.67	EPA TO-15 Certifications: NELAC-NY10854	05/19/2016 18:47	05/19/2016 18:47	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	11	11	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
67-64-1	**Acetone**	**1600**		ug/m³	13	13	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
107-13-1	Acrylonitrile	ND		ug/m³	5.8	5.8	26.67	EPA TO-15 Certifications: NELAC-NY10854	05/19/2016 18:47	05/19/2016 18:47	LDS
71-43-2	**Benzene**	**66**		ug/m³	8.5	8.5	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
100-44-7	Benzyl chloride	ND		ug/m³	14	14	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	18	18	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
75-25-2	Bromoform	ND		ug/m³	28	28	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
74-83-9	Bromomethane	ND		ug/m³	10	10	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
75-15-0	**Carbon disulfide**	**240**		ug/m³	8.3	8.3	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	4.2	4.2	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
108-90-7	Chlorobenzene	ND		ug/m³	12	12	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
75-00-3	Chloroethane	ND		ug/m³	7.0	7.0	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
67-66-3	Chloroform	ND		ug/m³	13	13	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
74-87-3	**Chloromethane**	**25**		ug/m³	5.5	5.5	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	11	11	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	12	12	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
110-82-7	**Cyclohexane**	**34**		ug/m³	9.2	9.2	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	23	23	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
75-71-8	**Dichlorodifluoromethane**	**41**		ug/m³	13	13	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
141-78-6	*** Ethyl acetate**	**54**		ug/m³	19	19	26.67	EPA TO-15 Certifications:	05/19/2016 18:47	05/19/2016 18:47	LDS
100-41-4	**Ethyl Benzene**	**83**		ug/m³	12	12	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	28	28	26.67	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 18:47	05/19/2016 18:47	LDS

Sample Information

Client Sample ID: Sub Slab 1 **York Sample ID:** 16E0796-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Soil Vapor	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-63-0	Isopropanol	ND		ug/m³	13	13	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	11	11	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	9.6	9.6	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
75-09-2	**Methylene chloride**	**100**		ug/m³	19	19	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
142-82-5	**n-Heptane**	**55**		ug/m³	11	11	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
110-54-3	**n-Hexane**	**230**		ug/m³	9.4	9.4	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
95-47-6	**o-Xylene**	**130**		ug/m³	12	12	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
179601-23-1	**p- & m- Xylenes**	**300**		ug/m³	23	23	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
622-96-8	*** p-Ethyltoluene**	**160**		ug/m³	13	13	26.67	EPA TO-15 Certifications:	05/19/2016 18:47	05/19/2016 18:47	LDS
115-07-1	*** Propylene**	**130**		ug/m³	4.6	4.6	26.67	EPA TO-15 Certifications:	05/19/2016 18:47	05/19/2016 18:47	LDS
100-42-5	**Styrene**	**150**		ug/m³	11	11	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
127-18-4	**Tetrachloroethylene**	**54**		ug/m³	4.5	4.5	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	16	16	26.67	EPA TO-15 Certifications:	05/19/2016 18:47	05/19/2016 18:47	LDS
108-88-3	**Toluene**	**300**		ug/m³	10	10	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	11	11	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	12	12	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
79-01-6	Trichloroethylene	ND		ug/m³	3.6	3.6	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**30**		ug/m³	15	15	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
108-05-4	Vinyl acetate	ND		ug/m³	9.4	9.4	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
593-60-2	Vinyl bromide	ND		ug/m³	12	12	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	6.8	6.8	26.67	EPA TO-15 Certifications:	05/19/2016 18:47 NELAC-NY10854,NJDEP	05/19/2016 18:47	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*107 %*	*72-118*

Sample Information

Client Sample ID: **Sub Slab 2** **York Sample ID:** **16E0796-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Soil Vapor	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	23	23	34.1	EPA TO-15 Certifications:	05/19/2016 19:35	05/19/2016 19:35	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	19	19	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	23	23	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	26	26	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	19	19	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	14	14	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	14	14	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	25	25	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	17	17	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	26	26	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	21	21	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	14	14	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	16	16	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	24	24	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	17	17	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	23	23	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	21	21	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	16	16	34.1	EPA TO-15 Certifications:	05/19/2016 19:35	05/19/2016 19:35	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	21	21	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	25	25	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
78-93-3	**2-Butanone**	**23**		ug/m³	10	10	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	28	28	34.1	EPA TO-15 Certifications:	05/19/2016 19:35	05/19/2016 19:35	LDS
107-05-1	3-Chloropropene	ND		ug/m³	53	53	34.1	EPA TO-15 Certifications: NELAC-NY10854	05/19/2016 19:35	05/19/2016 19:35	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	14	14	34.1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 19:35	05/19/2016 19:35	LDS

Sample Information

Client Sample ID: **Sub Slab 2** **York Sample ID:** **16E0796-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Soil Vapor	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**200**		ug/m³	16	16	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
107-13-1	Acrylonitrile	ND		ug/m³	7.4	7.4	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854			
71-43-2	Benzene	ND		ug/m³	11	11	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
100-44-7	Benzyl chloride	ND		ug/m³	18	18	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
75-27-4	Bromodichloromethane	ND		ug/m³	23	23	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
75-25-2	Bromoform	ND		ug/m³	35	35	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
74-83-9	Bromomethane	ND		ug/m³	13	13	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
75-15-0	Carbon disulfide	ND		ug/m³	11	11	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
56-23-5	Carbon tetrachloride	ND		ug/m³	5.4	5.4	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
108-90-7	Chlorobenzene	ND		ug/m³	16	16	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
75-00-3	Chloroethane	ND		ug/m³	9.0	9.0	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
67-66-3	Chloroform	ND		ug/m³	17	17	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
74-87-3	Chloromethane	ND		ug/m³	7.0	7.0	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	14	14	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	15	15	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
110-82-7	Cyclohexane	ND		ug/m³	12	12	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
124-48-1	Dibromochloromethane	ND		ug/m³	29	29	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
75-71-8	Dichlorodifluoromethane	ND		ug/m³	17	17	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
141-78-6	* Ethyl acetate	ND		ug/m³	25	25	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications:			
100-41-4	Ethyl Benzene	ND		ug/m³	15	15	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
87-68-3	Hexachlorobutadiene	ND		ug/m³	36	36	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
67-63-0	Isopropanol	ND		ug/m³	17	17	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
80-62-6	Methyl Methacrylate	ND		ug/m³	14	14	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	12	12	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			

Sample Information

Client Sample ID: **Sub Slab 2** **York Sample ID:** **16E0796-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Soil Vapor	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/m³	24	24	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
142-82-5	n-Heptane	ND		ug/m³	14	14	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
110-54-3	**n-Hexane**	**19**		ug/m³	12	12	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
95-47-6	o-Xylene	ND		ug/m³	15	15	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
179601-23-1	p- & m- Xylenes	ND		ug/m³	30	30	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
622-96-8	* p-Ethyltoluene	ND		ug/m³	17	17	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications:			
115-07-1	* Propylene	ND		ug/m³	5.9	5.9	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications:			
100-42-5	Styrene	ND		ug/m³	15	15	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
127-18-4	Tetrachloroethylene	ND		ug/m³	5.8	5.8	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
109-99-9	* Tetrahydrofuran	ND		ug/m³	20	20	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications:			
108-88-3	**Toluene**	**21**		ug/m³	13	13	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	14	14	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	15	15	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
79-01-6	Trichloroethylene	ND		ug/m³	4.6	4.6	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	19	19	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
108-05-4	Vinyl acetate	ND		ug/m³	12	12	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
593-60-2	Vinyl bromide	ND		ug/m³	15	15	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			
75-01-4	Vinyl Chloride	ND		ug/m³	8.7	8.7	34.1	EPA TO-15	05/19/2016 19:35	05/19/2016 19:35	LDS
								Certifications: NELAC-NY10854,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*98.9 %*	*72-118*

Sample Information

Client Sample ID: **Inside 1** **York Sample ID:** **16E0796-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Indoor Ambient Air	May 19, 2016 11:00 am	05/19/2016

Sample Information

Client Sample ID: **Inside 1** **York Sample ID:** **16E0796-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Indoor Ambient Air	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.79	0.79	1.154	EPA TO-15 Certifications:	05/19/2016 14:44	05/19/2016 14:44	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.63	0.63	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.79	0.79	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.88	0.88	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.63	0.63	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.47	0.47	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.46	0.46	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.86	0.86	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**2.5**		ug/m³	0.57	0.57	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.89	0.89	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.69	0.69	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.47	0.47	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.53	0.53	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.81	0.81	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
108-67-8	**1,3,5-Trimethylbenzene**	**0.96**		ug/m³	0.57	0.57	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.77	0.77	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.69	0.69	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.53	0.53	1.154	EPA TO-15 Certifications:	05/19/2016 14:44	05/19/2016 14:44	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.69	0.69	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.83	0.83	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
78-93-3	**2-Butanone**	**3.8**		ug/m³	0.34	0.34	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	0.95	0.95	1.154	EPA TO-15 Certifications:	05/19/2016 14:44	05/19/2016 14:44	LDS
107-05-1	3-Chloropropene	ND		ug/m³	1.8	1.8	1.154	EPA TO-15 Certifications: NELAC-NY10854	05/19/2016 14:44	05/19/2016 14:44	LDS

Sample Information

Client Sample ID: **Inside 1** **York Sample ID:** **16E0796-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Indoor Ambient Air	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.47	0.47	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
67-64-1	**Acetone**	**38**		ug/m³	0.55	0.55	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.25	0.25	1.154	EPA TO-15 Certifications: NELAC-NY10854	05/19/2016 14:44	05/19/2016 14:44	LDS
71-43-2	**Benzene**	**3.0**		ug/m³	0.37	0.37	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.60	0.60	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.77	0.77	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
75-25-2	Bromoform	ND		ug/m³	1.2	1.2	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
74-83-9	Bromomethane	ND		ug/m³	0.45	0.45	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.36	0.36	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	0.18	0.18	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.53	0.53	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
75-00-3	Chloroethane	ND		ug/m³	0.30	0.30	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
67-66-3	Chloroform	ND		ug/m³	0.56	0.56	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
74-87-3	**Chloromethane**	**1.6**		ug/m³	0.24	0.24	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.46	0.46	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.52	0.52	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
110-82-7	**Cyclohexane**	**0.68**		ug/m³	0.40	0.40	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.98	0.98	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
75-71-8	**Dichlorodifluoromethane**	**2.3**		ug/m³	0.57	0.57	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
141-78-6	*** Ethyl acetate**	**2.5**		ug/m³	0.83	0.83	1.154	EPA TO-15 Certifications:	05/19/2016 14:44	05/19/2016 14:44	LDS
100-41-4	**Ethyl Benzene**	**1.4**		ug/m³	0.50	0.50	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.2	1.2	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS
67-63-0	Isopropanol	ND		ug/m³	0.57	0.57	1.154	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 14:44	05/19/2016 14:44	LDS

Sample Information

Client Sample ID: **Inside 1** **York Sample ID:** **16E0796-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Indoor Ambient Air	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m³	0.47	0.47	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.42	0.42	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
75-09-2	**Methylene chloride**	**4.0**		ug/m³	0.80	0.80	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
142-82-5	**n-Heptane**	**1.5**		ug/m³	0.47	0.47	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
110-54-3	**n-Hexane**	**15**		ug/m³	0.41	0.41	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
95-47-6	**o-Xylene**	**2.3**		ug/m³	0.50	0.50	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
179601-23-1	**p- & m- Xylenes**	**5.8**		ug/m³	1.0	1.0	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
622-96-8	*** p-Ethyltoluene**	**2.4**		ug/m³	0.57	0.57	1.154	EPA TO-15 Certifications:	05/19/2016 14:44	05/19/2016 14:44	LDS
115-07-1	*** Propylene**	**6.2**		ug/m³	0.20	0.20	1.154	EPA TO-15 Certifications:	05/19/2016 14:44	05/19/2016 14:44	LDS
100-42-5	**Styrene**	**0.74**		ug/m³	0.49	0.49	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
127-18-4	**Tetrachloroethylene**	**1.7**		ug/m³	0.20	0.20	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.68	0.68	1.154	EPA TO-15 Certifications:	05/19/2016 14:44	05/19/2016 14:44	LDS
108-88-3	**Toluene**	**10**		ug/m³	0.43	0.43	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.46	0.46	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.52	0.52	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.16	0.16	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.6**		ug/m³	0.65	0.65	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.41	0.41	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.50	0.50	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.29	0.29	1.154	EPA TO-15 Certifications:	05/19/2016 14:44 NELAC-NY10854,NJDEP	05/19/2016 14:44	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*104 %*	*72-118*

Sample Information

Client Sample ID: **Inside 2** **York Sample ID:** **16E0796-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Indoor Ambient Air	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.85	0.85	1.239	EPA TO-15 Certifications:	05/19/2016 15:45	05/19/2016 15:45	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.68	0.68	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.85	0.85	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.95	0.95	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.68	0.68	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.50	0.50	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.49	0.49	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.92	0.92	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**4.7**		ug/m³	0.61	0.61	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.95	0.95	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.74	0.74	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.50	0.50	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.57	0.57	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.87	0.87	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
108-67-8	**1,3,5-Trimethylbenzene**	**1.8**		ug/m³	0.61	0.61	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.82	0.82	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.74	0.74	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.57	0.57	1.239	EPA TO-15 Certifications:	05/19/2016 15:45	05/19/2016 15:45	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.74	0.74	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.89	0.89	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
78-93-3	**2-Butanone**	**4.0**		ug/m³	0.37	0.37	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	1.0	1.0	1.239	EPA TO-15 Certifications:	05/19/2016 15:45	05/19/2016 15:45	LDS
107-05-1	3-Chloropropene	ND		ug/m³	1.9	1.9	1.239	EPA TO-15 Certifications: NELAC-NY10854	05/19/2016 15:45	05/19/2016 15:45	LDS

Sample Information

Client Sample ID: **Inside 2** **York Sample ID:** **16E0796-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Indoor Ambient Air	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.51	0.51	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
67-64-1	**Acetone**	**77**		ug/m³	0.59	0.59	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.27	0.27	1.239	EPA TO-15 Certifications: NELAC-NY10854	05/19/2016 15:45	05/19/2016 15:45	LDS
71-43-2	**Benzene**	**5.5**		ug/m³	0.40	0.40	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.64	0.64	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.83	0.83	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
75-25-2	Bromoform	ND		ug/m³	1.3	1.3	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
74-83-9	Bromomethane	ND		ug/m³	0.48	0.48	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.39	0.39	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	0.19	0.19	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.57	0.57	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
75-00-3	Chloroethane	ND		ug/m³	0.33	0.33	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
67-66-3	**Chloroform**	**0.60**		ug/m³	0.60	0.60	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
74-87-3	**Chloromethane**	**1.4**		ug/m³	0.26	0.26	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.49	0.49	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.56	0.56	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
110-82-7	**Cyclohexane**	**1.4**		ug/m³	0.43	0.43	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	1.1	1.1	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
75-71-8	**Dichlorodifluoromethane**	**2.5**		ug/m³	0.61	0.61	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
141-78-6	*** Ethyl acetate**	**2.9**		ug/m³	0.89	0.89	1.239	EPA TO-15 Certifications:	05/19/2016 15:45	05/19/2016 15:45	LDS
100-41-4	**Ethyl Benzene**	**2.3**		ug/m³	0.54	0.54	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.3	1.3	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS
67-63-0	Isopropanol	ND		ug/m³	0.61	0.61	1.239	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 15:45	05/19/2016 15:45	LDS

Sample Information

Client Sample ID: **Inside 2** **York Sample ID:** **16E0796-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Indoor Ambient Air	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m³	0.51	0.51	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.45	0.45	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
75-09-2	**Methylene chloride**	**1.9**		ug/m³	0.86	0.86	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
142-82-5	**n-Heptane**	**2.9**		ug/m³	0.51	0.51	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
110-54-3	**n-Hexane**	**31**		ug/m³	0.44	0.44	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
95-47-6	**o-Xylene**	**3.9**		ug/m³	0.54	0.54	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
179601-23-1	**p- & m- Xylenes**	**9.4**		ug/m³	1.1	1.1	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
622-96-8	*** p-Ethyltoluene**	**4.4**		ug/m³	0.61	0.61	1.239	EPA TO-15 Certifications:	05/19/2016 15:45	05/19/2016 15:45	LDS
115-07-1	*** Propylene**	**12**		ug/m³	0.21	0.21	1.239	EPA TO-15 Certifications:	05/19/2016 15:45	05/19/2016 15:45	LDS
100-42-5	**Styrene**	**2.0**		ug/m³	0.53	0.53	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
127-18-4	**Tetrachloroethylene**	**2.4**		ug/m³	0.21	0.21	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.73	0.73	1.239	EPA TO-15 Certifications:	05/19/2016 15:45	05/19/2016 15:45	LDS
108-88-3	**Toluene**	**16**		ug/m³	0.47	0.47	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.49	0.49	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.56	0.56	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.17	0.17	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.5**		ug/m³	0.70	0.70	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.44	0.44	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.54	0.54	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.32	0.32	1.239	EPA TO-15 Certifications:	05/19/2016 15:45 NELAC-NY10854,NJDEP	05/19/2016 15:45	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*103 %*	*72-118*

Sample Information

Client Sample ID: **Outside 1** **York Sample ID:** **16E0796-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Outdoor Ambient Air	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.69	0.69	1	EPA TO-15 Certifications:	05/19/2016 16:45	05/19/2016 16:45	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.55	0.55	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.74	0.74	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**0.79**		ug/m³	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.77	0.77	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.70	0.70	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.66	0.66	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.46	0.46	1	EPA TO-15 Certifications:	05/19/2016 16:45	05/19/2016 16:45	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.60	0.60	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.72	0.72	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
78-93-3	**2-Butanone**	**3.0**		ug/m³	0.29	0.29	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	0.82	0.82	1	EPA TO-15 Certifications:	05/19/2016 16:45	05/19/2016 16:45	LDS
107-05-1	3-Chloropropene	ND		ug/m³	1.6	1.6	1	EPA TO-15 Certifications: NELAC-NY10854	05/19/2016 16:45	05/19/2016 16:45	LDS

Sample Information

Client Sample ID: **Outside 1** **York Sample ID:** **16E0796-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Outdoor Ambient Air	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
67-64-1	**Acetone**	**12**		ug/m³	0.48	0.48	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.22	0.22	1	EPA TO-15 Certifications: NELAC-NY10854	05/19/2016 16:45	05/19/2016 16:45	LDS
71-43-2	**Benzene**	**0.89**		ug/m³	0.32	0.32	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.52	0.52	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.67	0.67	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
75-25-2	Bromoform	ND		ug/m³	1.0	1.0	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
74-83-9	Bromomethane	ND		ug/m³	0.39	0.39	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
75-15-0	**Carbon disulfide**	**7.9**		ug/m³	0.31	0.31	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	0.16	0.16	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.46	0.46	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
75-00-3	Chloroethane	ND		ug/m³	0.26	0.26	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
67-66-3	**Chloroform**	**0.54**		ug/m³	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
74-87-3	**Chloromethane**	**1.6**		ug/m³	0.21	0.21	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.45	0.45	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.34	0.34	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.85	0.85	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
75-71-8	**Dichlorodifluoromethane**	**2.5**		ug/m³	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
141-78-6	*** Ethyl acetate**	**1.8**		ug/m³	0.72	0.72	1	EPA TO-15 Certifications:	05/19/2016 16:45	05/19/2016 16:45	LDS
100-41-4	**Ethyl Benzene**	**0.65**		ug/m³	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.1	1.1	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
67-63-0	Isopropanol	ND		ug/m³	0.49	0.49	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS

Sample Information

Client Sample ID: **Outside 1** **York Sample ID:** **16E0796-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Outdoor Ambient Air	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m³	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.36	0.36	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
75-09-2	**Methylene chloride**	**1.9**		ug/m³	0.69	0.69	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
142-82-5	**n-Heptane**	**0.45**		ug/m³	0.41	0.41	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
110-54-3	**n-Hexane**	**0.67**		ug/m³	0.35	0.35	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
95-47-6	**o-Xylene**	**0.82**		ug/m³	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
179601-23-1	**p- & m- Xylenes**	**2.5**		ug/m³	0.87	0.87	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
622-96-8	*** p-Ethyltoluene**	**0.79**		ug/m³	0.49	0.49	1	EPA TO-15 Certifications:	05/19/2016 16:45	05/19/2016 16:45	LDS
115-07-1	*** Propylene**	**1.6**		ug/m³	0.17	0.17	1	EPA TO-15 Certifications:	05/19/2016 16:45	05/19/2016 16:45	LDS
100-42-5	Styrene	ND		ug/m³	0.43	0.43	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
127-18-4	**Tetrachloroethylene**	**0.68**		ug/m³	0.17	0.17	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.59	0.59	1	EPA TO-15 Certifications:	05/19/2016 16:45	05/19/2016 16:45	LDS
108-88-3	**Toluene**	**4.6**		ug/m³	0.38	0.38	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.40	0.40	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.45	0.45	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.13	0.13	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.7**		ug/m³	0.56	0.56	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.35	0.35	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.44	0.44	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.26	0.26	1	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 16:45	05/19/2016 16:45	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*72-118*

Sample Information

Client Sample ID: **Outside 2** **York Sample ID:** **16E0796-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Outdoor Ambient Air	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.74	0.74	1.084	EPA TO-15 Certifications:	05/19/2016 17:46	05/19/2016 17:46	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.59	0.59	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.74	0.74	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.83	0.83	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.59	0.59	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.44	0.44	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.43	0.43	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.80	0.80	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**0.80**		ug/m³	0.53	0.53	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.83	0.83	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.65	0.65	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.44	0.44	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.50	0.50	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.76	0.76	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.53	0.53	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.72	0.72	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.65	0.65	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.50	0.50	1.084	EPA TO-15 Certifications:	05/19/2016 17:46	05/19/2016 17:46	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.65	0.65	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.78	0.78	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
78-93-3	**2-Butanone**	**2.0**		ug/m³	0.32	0.32	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
591-78-6	* 2-Hexanone	ND		ug/m³	0.89	0.89	1.084	EPA TO-15 Certifications:	05/19/2016 17:46	05/19/2016 17:46	LDS
107-05-1	3-Chloropropene	ND		ug/m³	1.7	1.7	1.084	EPA TO-15 Certifications: NELAC-NY10854	05/19/2016 17:46	05/19/2016 17:46	LDS

Sample Information

Client Sample ID: **Outside 2** **York Sample ID:** **16E0796-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Outdoor Ambient Air	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.44	0.44	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
67-64-1	**Acetone**	**12**		ug/m³	0.51	0.51	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.24	0.24	1.084	EPA TO-15 Certifications: NELAC-NY10854	05/19/2016 17:46	05/19/2016 17:46	LDS
71-43-2	**Benzene**	**0.83**		ug/m³	0.35	0.35	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.56	0.56	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.73	0.73	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
75-25-2	Bromoform	ND		ug/m³	1.1	1.1	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
74-83-9	Bromomethane	ND		ug/m³	0.42	0.42	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
75-15-0	**Carbon disulfide**	**0.44**		ug/m³	0.34	0.34	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
56-23-5	Carbon tetrachloride	ND		ug/m³	0.17	0.17	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.50	0.50	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
75-00-3	Chloroethane	ND		ug/m³	0.29	0.29	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
67-66-3	**Chloroform**	**0.74**		ug/m³	0.53	0.53	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
74-87-3	**Chloromethane**	**1.3**		ug/m³	0.22	0.22	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.43	0.43	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.49	0.49	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
110-82-7	Cyclohexane	ND		ug/m³	0.37	0.37	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.92	0.92	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
75-71-8	**Dichlorodifluoromethane**	**2.3**		ug/m³	0.54	0.54	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
141-78-6	*** Ethyl acetate**	**1.3**		ug/m³	0.78	0.78	1.084	EPA TO-15 Certifications:	05/19/2016 17:46	05/19/2016 17:46	LDS
100-41-4	**Ethyl Benzene**	**0.52**		ug/m³	0.47	0.47	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.2	1.2	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS
67-63-0	Isopropanol	ND		ug/m³	0.53	0.53	1.084	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	05/19/2016 17:46	05/19/2016 17:46	LDS

Sample Information

Client Sample ID: **Outside 2** **York Sample ID:** **16E0796-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
16E0796	140 Stewart Ave.	Outdoor Ambient Air	May 19, 2016 11:00 am	05/19/2016

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m³	0.44	0.44	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.39	0.39	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
75-09-2	**Methylene chloride**	**25**		ug/m³	0.75	0.75	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
142-82-5	**n-Heptane**	**0.53**		ug/m³	0.44	0.44	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
110-54-3	**n-Hexane**	**6.3**		ug/m³	0.38	0.38	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
95-47-6	**o-Xylene**	**0.75**		ug/m³	0.47	0.47	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
179601-23-1	**p- & m- Xylenes**	**2.1**		ug/m³	0.94	0.94	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
622-96-8	*** p-Ethyltoluene**	**0.75**		ug/m³	0.53	0.53	1.084	EPA TO-15 Certifications:	05/19/2016 17:46	05/19/2016 17:46	LDS
115-07-1	*** Propylene**	**1.5**		ug/m³	0.19	0.19	1.084	EPA TO-15 Certifications:	05/19/2016 17:46	05/19/2016 17:46	LDS
100-42-5	Styrene	ND		ug/m³	0.46	0.46	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
127-18-4	**Tetrachloroethylene**	**0.66**		ug/m³	0.18	0.18	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.64	0.64	1.084	EPA TO-15 Certifications:	05/19/2016 17:46	05/19/2016 17:46	LDS
108-88-3	**Toluene**	**5.0**		ug/m³	0.41	0.41	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.43	0.43	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.49	0.49	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.15	0.15	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.7**		ug/m³	0.61	0.61	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.38	0.38	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.47	0.47	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.28	0.28	1.084	EPA TO-15 Certifications:	05/19/2016 17:46 NELAC-NY10854,NJDEP	05/19/2016 17:46	LDS

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*101 %*	*72-118*

Analytical Batch Summary

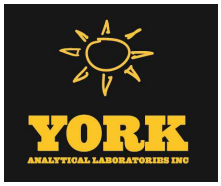
Batch ID: BE60968 **Preparation Method:** EPA TO15 PREP **Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
16E0796-01	Sub Slab 1	05/19/16
16E0796-02	Sub Slab 2	05/19/16
16E0796-03	Inside 1	05/19/16
16E0796-04	Inside 2	05/19/16
16E0796-05	Outside 1	05/19/16
16E0796-06	Outside 2	05/19/16
BE60968-BLK1	Blank	05/19/16
BE60968-BS1	LCS	05/19/16

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

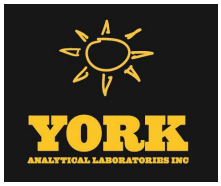
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE60968 - EPA TO15 PREP											
Blank (BE60968-BLK1)											Prepared & Analyzed: 05/19/2016
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.40	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.40	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								
n-Hexane	ND	0.35	"								



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE60968 - EPA TO15 PREP											
Blank (BE60968-BLK1)								Prepared & Analyzed: 05/19/2016			
o-Xylene	ND	0.43	ug/m³								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.26	"								
Surrogate: p-Bromofluorobenzene	*9.63*		*ppbv*	*10.0*		*96.3*	*72-118*				
LCS (BE60968-BS1)								Prepared & Analyzed: 05/19/2016			
1,1,1,2-Tetrachloroethane	11.6		ppbv	10.0		116	82-126				
1,1,1-Trichloroethane	11.2		"	10.0		112	70-130				
1,1,2,2-Tetrachloroethane	11.4		"	10.0		114	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	70-130				
1,1,2-Trichloroethane	11.4		"	10.0		114	70-130				
1,1-Dichloroethane	11.2		"	10.0		112	70-130				
1,1-Dichloroethylene	11.4		"	10.0		114	70-130				
1,2,4-Trichlorobenzene	8.73		"	10.0		87.3	70-130				
1,2,4-Trimethylbenzene	12.3		"	10.0		123	70-130				
1,2-Dibromoethane	12.1		"	10.0		121	70-130				
1,2-Dichlorobenzene	11.9		"	10.0		119	70-130				
1,2-Dichloroethane	11.2		"	10.0		112	70-130				
1,2-Dichloropropane	11.6		"	10.0		116	70-130				
1,2-Dichlorotetrafluoroethane	11.4		"	10.0		114	70-130				
1,3,5-Trimethylbenzene	11.8		"	10.0		118	70-130				
1,3-Butadiene	11.0		"	10.0		110	70-130				
1,3-Dichlorobenzene	11.8		"	10.0		118	70-130				
1,3-Dichloropropane	11.7		"	10.0		117	70-130				
1,4-Dichlorobenzene	12.1		"	10.0		121	70-130				
1,4-Dioxane	18.5		"	10.0		185	70-130	High Bias			
2-Butanone	11.5		"	10.0		115	70-130				
2-Hexanone	13.1		"	10.0		131	70-130	High Bias			
3-Chloropropene	11.9		"	10.0		119	70-130				
4-Methyl-2-pentanone	15.4		"	10.0		154	70-130	High Bias			
Acetone	9.89		"	10.0		98.9	70-130				
Acrylonitrile	11.5		"	10.0		115	70-130				
Benzene	10.8		"	10.0		108	70-130				
Benzyl chloride	9.32		"	10.0		93.2	70-130				
Bromodichloromethane	12.1		"	10.0		121	70-130				
Bromoform	12.0		"	10.0		120	70-130				
Bromomethane	9.80		"	10.0		98.0	70-130				
Carbon disulfide	12.1		"	10.0		121	70-130				
Carbon tetrachloride	11.6		"	10.0		116	70-130				
Chlorobenzene	10.8		"	10.0		108	70-130				



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE60968 - EPA TO15 PREP											
LCS (BE60968-BS1)								Prepared & Analyzed: 05/19/2016			
Chloroethane	11.4		ppbv	10.0		114	70-130				
Chloroform	10.9		"	10.0		109	70-130				
Chloromethane	10.8		"	10.0		108	70-130				
cis-1,2-Dichloroethylene	10.1		"	10.0		101	70-130				
cis-1,3-Dichloropropylene	13.5		"	10.0		135	70-130	High Bias			
Cyclohexane	11.9		"	10.0		119	70-130				
Dibromochloromethane	12.5		"	10.0		125	70-130				
Dichlorodifluoromethane	12.5		"	10.0		125	70-130				
Ethyl acetate	14.9		"	10.0		149	70-130	High Bias			
Ethyl Benzene	11.8		"	10.0		118	70-130				
Hexachlorobutadiene	12.0		"	10.0		120	70-130				
Isopropanol	10.4		"	10.0		104	70-130				
Methyl Methacrylate	12.8		"	10.0		128	70-130				
Methyl tert-butyl ether (MTBE)	12.1		"	10.0		121	70-130				
Methylene chloride	9.96		"	10.0		99.6	70-130				
n-Heptane	12.5		"	10.0		125	70-130				
n-Hexane	11.3		"	10.0		113	70-130				
o-Xylene	12.6		"	10.0		126	70-130				
p- & m- Xylenes	23.7		"	20.0		118	70-130				
p-Ethyltoluene	12.6		"	10.0		126	70-130				
Propylene	10.6		"	10.0		106	70-130				
Styrene	11.5		"	10.0		115	70-130				
Tetrachloroethylene	11.1		"	10.0		111	70-130				
Tetrahydrofuran	11.4		"	10.0		114	70-130				
Toluene	11.6		"	10.0		116	70-130				
trans-1,2-Dichloroethylene	11.7		"	10.0		117	70-130				
trans-1,3-Dichloropropylene	12.9		"	10.0		129	70-130				
Trichloroethylene	11.9		"	10.0		119	70-130				
Trichlorofluoromethane (Freon 11)	11.0		"	10.0		110	70-130				
Vinyl acetate	8.74		"	10.0		87.4	70-130				
Vinyl bromide	11.3		"	10.0		113	70-130				
Vinyl Chloride	11.3		"	10.0		113	70-130				
Surrogate: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*72-118*				

Notes and Definitions

QL-03	This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
CCV-A	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to dectected analytes only.

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*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

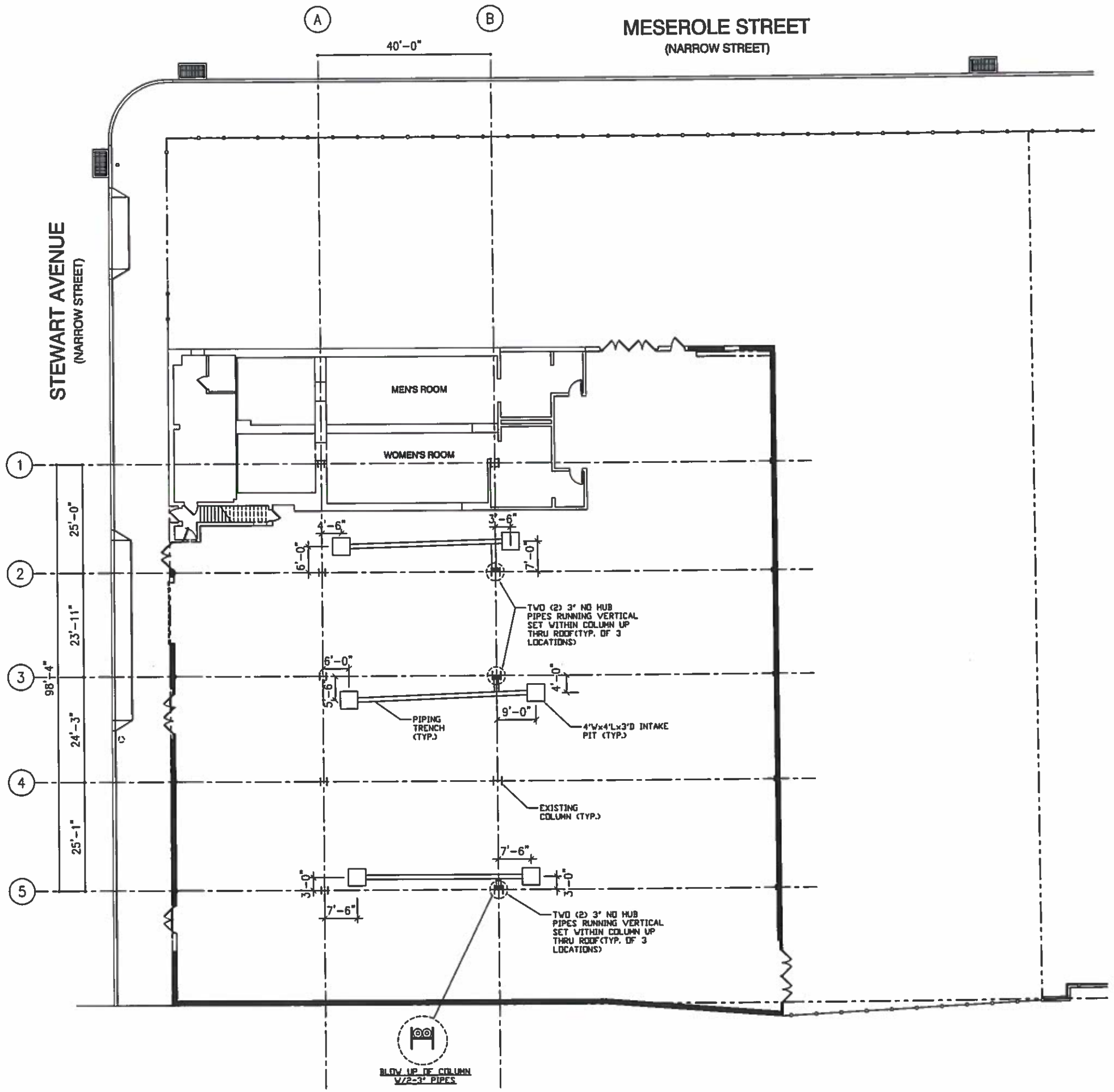
Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

APPENDIX L: AS-BUILT FIGURES FOR SSDS INSTALLATION

PSG



NYCO
Environmental & Dewatering Corp.
200 Blydenburg Road, Suite 19
Islandia, New York 11749
Phone: (631) 630-6700
Fax: (631) 415-1181

Durcan Engineering, P.C.

Address:
140 STEWART AVENUE
BROOKLYN, NEW YORK 11237

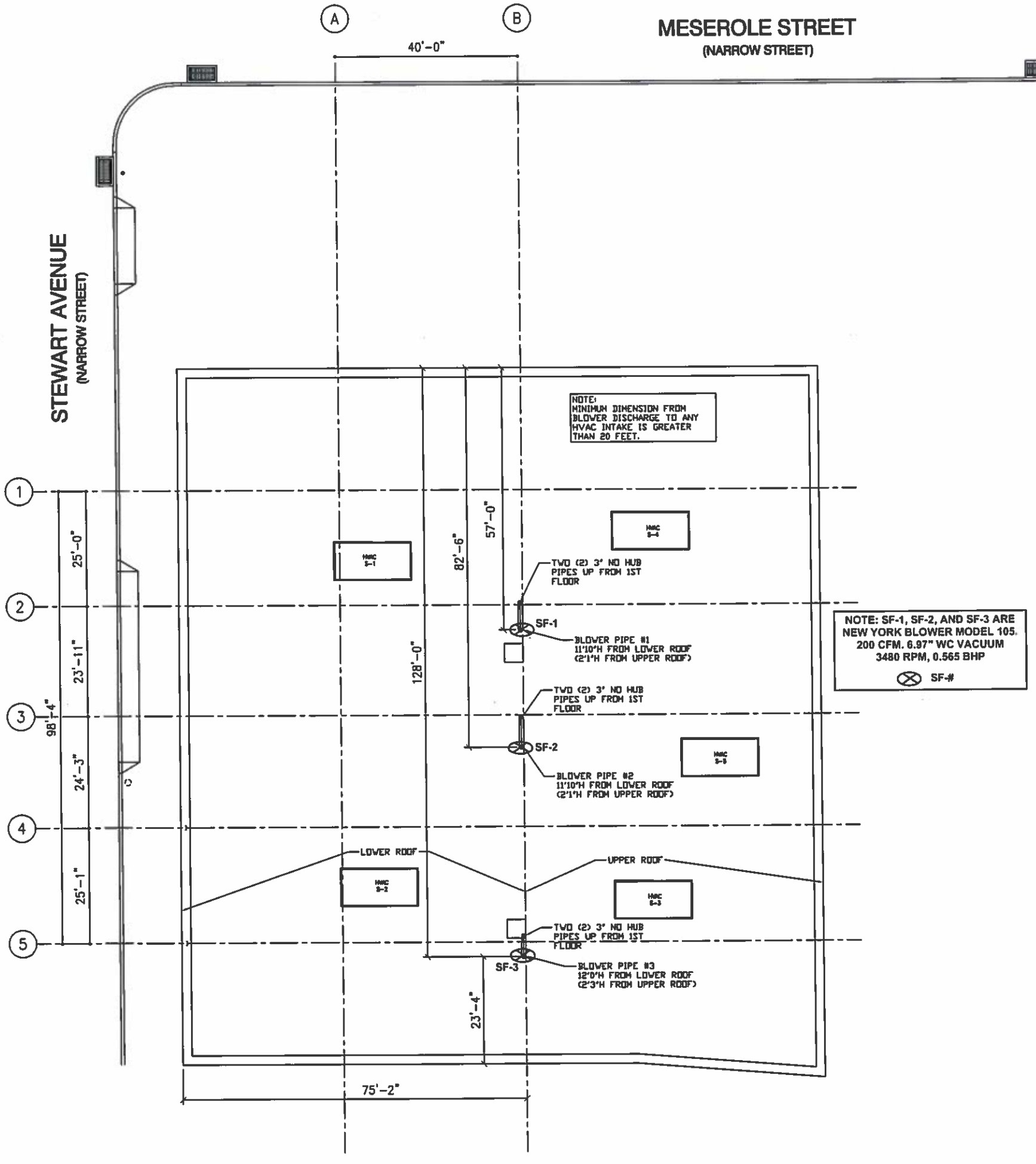
Drawing Title:
AS-BUILT
1ST FLOOR

STATE OF NEW YORK
MATTHEW T DURCAN
LICENSED PROFESSIONAL ENGINEER
074649

3/20/18

DATE	3/10/18
SCALE	N.T.S.
JOB NO.	226-18
DRAWN BY	M.D.

Drawing No.
1



NOTE: SF-1, SF-2, AND SF-3 ARE NEW YORK BLOWER MODEL 105. 200 CFM. 6.97" WC VACUUM 3480 RPM, 0.565 BHP

⊗ SF-#

STATE OF NEW YORK
MATTHEW T DURCAN
LICENSED PROFESSIONAL ENGINEER
074649

3/20/18

NYCO
Environmental & Dewatering Corp.
200 Blydenburg Road, Suite 19
Islandia, New York 11749
Phone: (631) 630-6700
Fax: (631) 415-1181

Durcan Engineering, P.C.

Address:

140 STEWART AVENUE
BROOKLYN, NEW YORK 11237

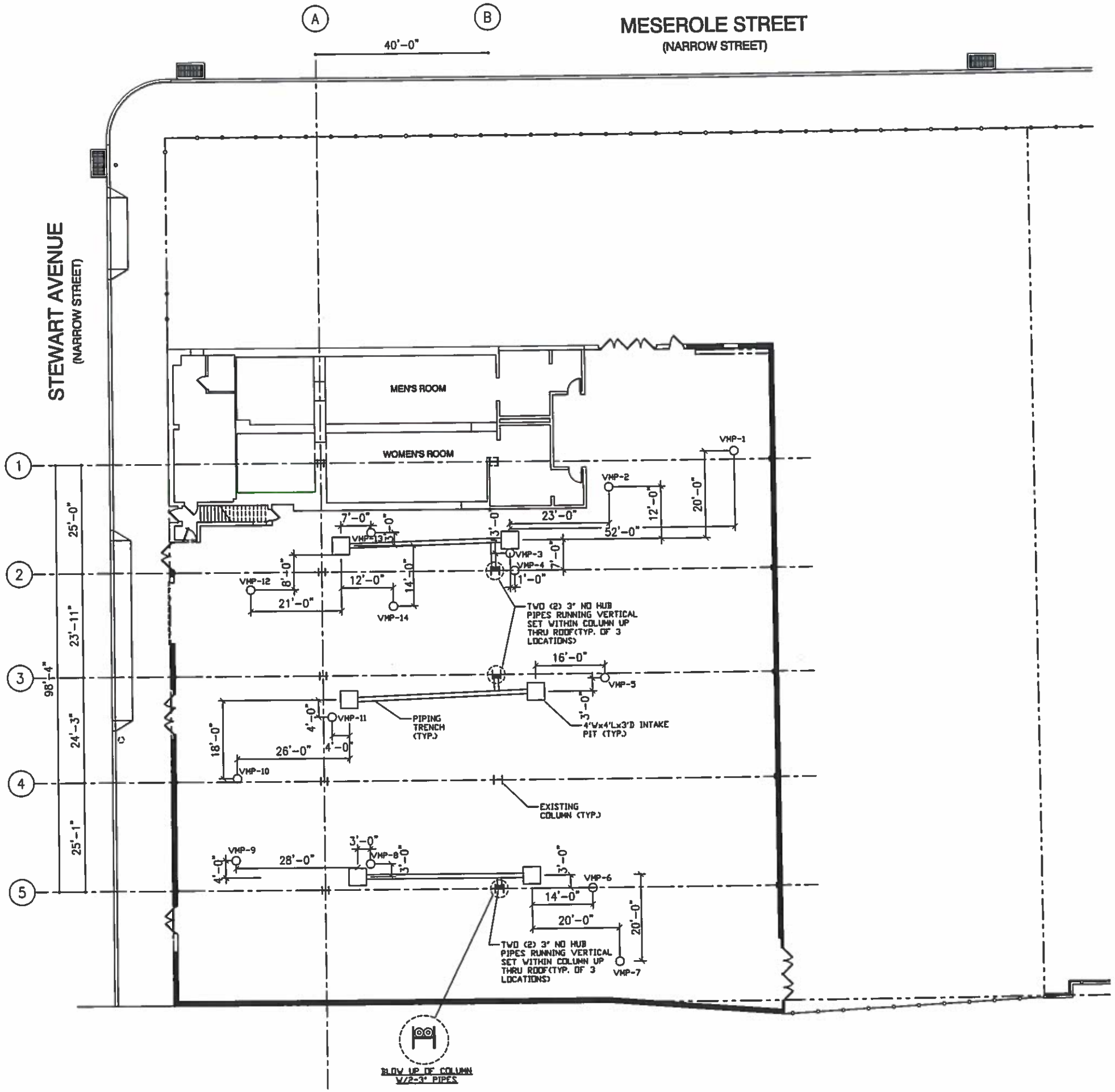
Drawing Title:

AS-BUILT ROOF

DATE	3/10/18
SCALE	N.T.S.
JOB NO.	226-18
DRAWN BY	M.D.

Drawing No.

2



VACUUM READINGS COLLECTED ON FEBRUARY 20, 2018

3/20/18

NYC Environmental & Dewatering Corp.

200 Blydenburg Road, Suite 19
Islandia, New York 11749
Phone: (631) 630-6700
Fax: (631) 415-1181

Durcan Engineering, P.C.

Address:

140 STEWART AVENUE
BROOKLYN, NEW YORK 11237

Drawing Title:

AS-BUILT VMP

DATE	3/10/18
SCALE	N.T.S.
JOB NO.	226-18
DRAWN BY	M.D.

Drawing No.

3

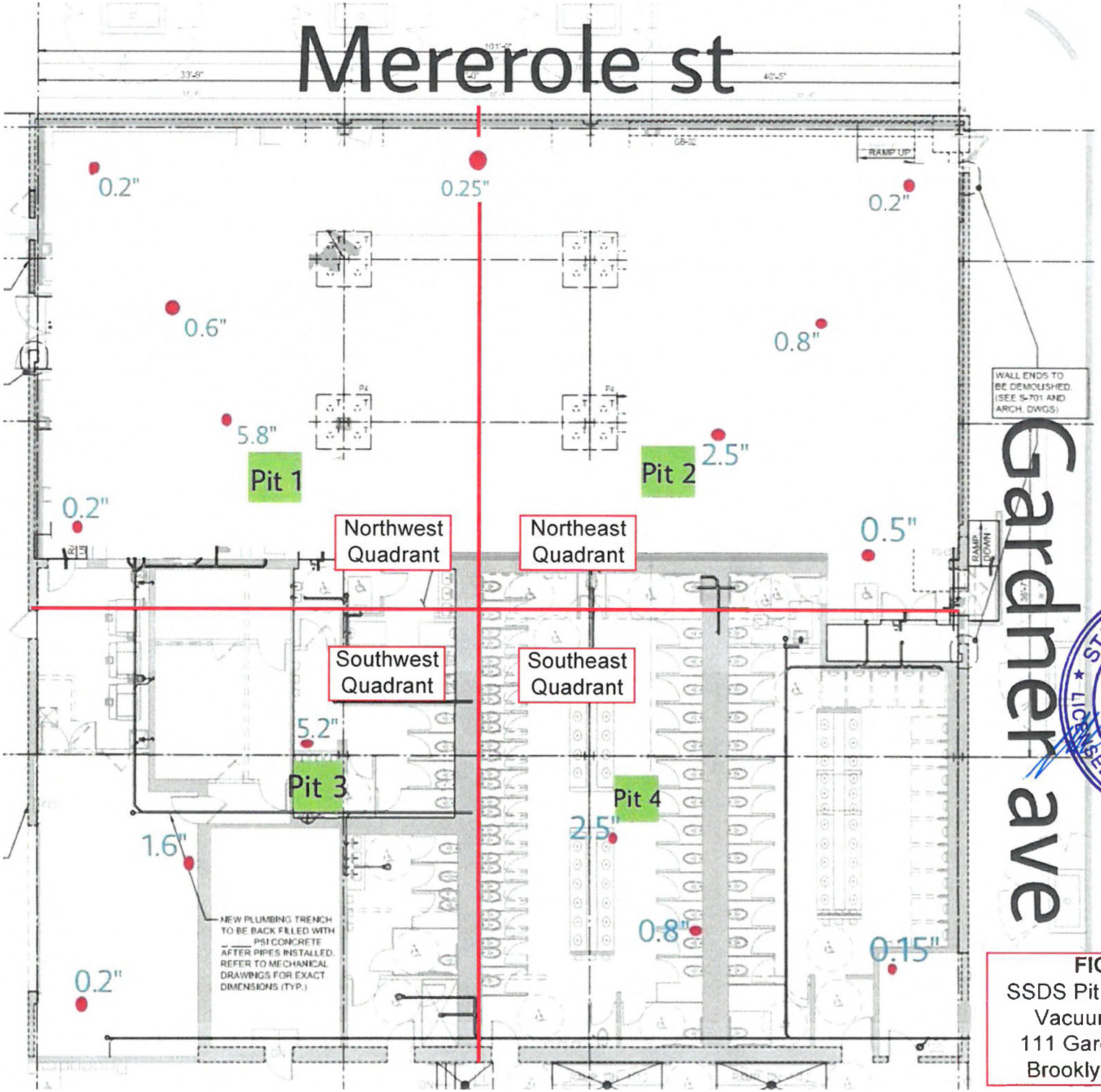
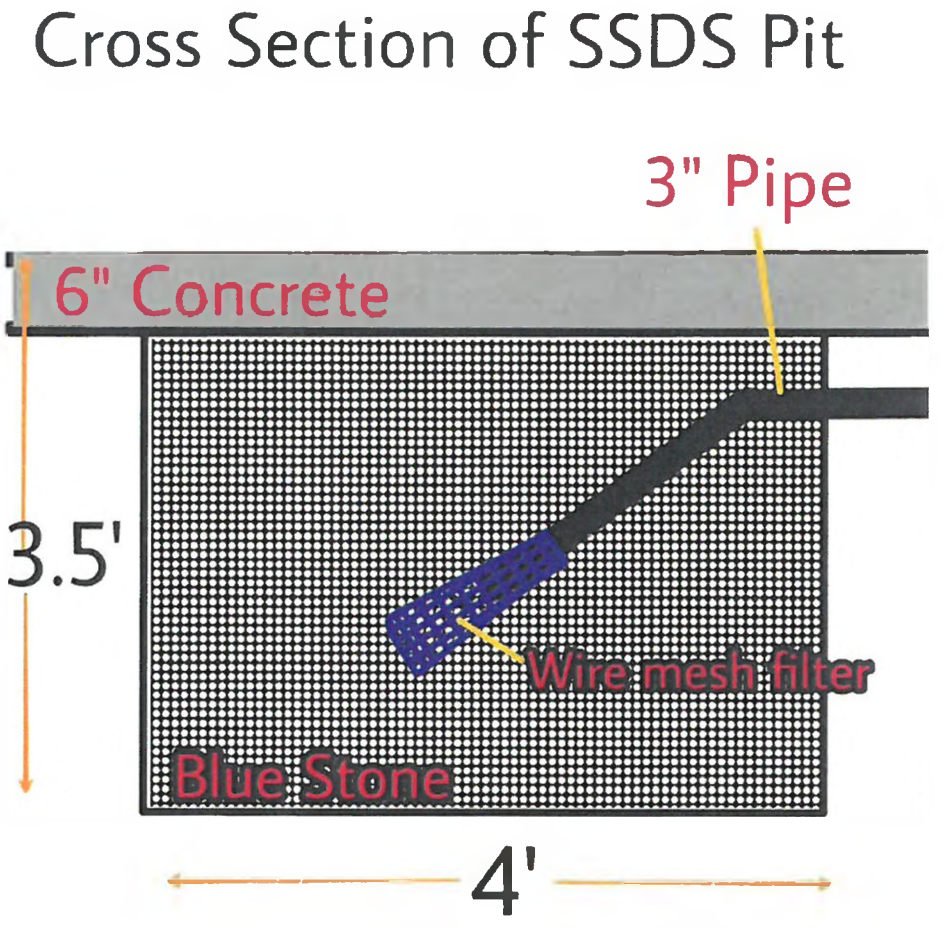


FIGURE 1
SSDS Pit Locations and Vacuum Readings
111 Gardiner Avenue
Brooklyn, NY 11237

Figure 2
SSDS Intake Point Cross Section
111 Gardiner Avenue
Brooklyn, NY 11247



DURCAN ENGINEERING, PC

August 31, 2023

Ms. Davina Mansur
Stewart Purchaser, LLC
82 Nassau St, 321
New York, NY 10038

RE: Sub-Slab Depressurization System Testing Results 8/30/2023
111 Gardner Avenue, Brooklyn, New York

Dear Ms. Mansur,

Yesterday, August 30, 2023, Durcan Engineering re-tested the sub-slab depressurization system (SSDS) following your request. The SSDS was previously installed at the subject property on June 20, 2017 and consists of 4 SSDS Gravel Pits. Each pit has a 3" diameter pipe and riser to above the roof where the 3" pipes from each pair of 2 pits are individually valved and combined into the intake of one blower. Each blower has a rated capacity of 300 CFM @ 6.97" WC and was manufactured by The New York Blower Company. Each of the 2 blowers provides vacuum, in this manner, to 2 pits.

To confirm continued operational effectiveness and demonstrate a sufficient vacuum Radius of Influence (ROI) within the footprint of the building, on August 30, 2023, Durcan Engineering tested 11 locations in the slab. At 5 locations, I drilled 3/8" holes into and through the floor slab and in the remaining 6 locations, I utilized brass test point locations installed by Partner Engineering. The locations of each point are shown on the attached drawing. Vacuum readings were collected at each of the holes and ranged from 0.07" WC to 2.5" WC. Based on this information, the SSDS is operating efficiently and providing sufficient ROI to address the sub slab vapors. Following the test, each of the drilled holes were sealed up with an epoxy concrete anchor adhesive manufactured by Sike Products.

Please refer to the site plan sketch showing the location of the building perimeter walls, SSDS pits and vacuum test locations and readings from yesterday's test. In addition, the current sensing devices for both blowers were tested and confirmed operational.

I hereby certify and confirm that during my visit and test for sub slab vacuum on August 30, 2023, the SSDS is functioning properly, and the building sub slab soil continues to be under negative pressure for the footprint of the building as evidenced by the areas tested for vacuum readings.

A review of the building slab, in all visible areas, has confirmed that all areas of construction that removed sections of the slab, have been repaired with concrete and there are no remaining slab openings.

In addition, it should be noted that the 2 SSDS blowers were observed to be operating properly and the discharge stacks are physically remote from the HVAC rooftop units.

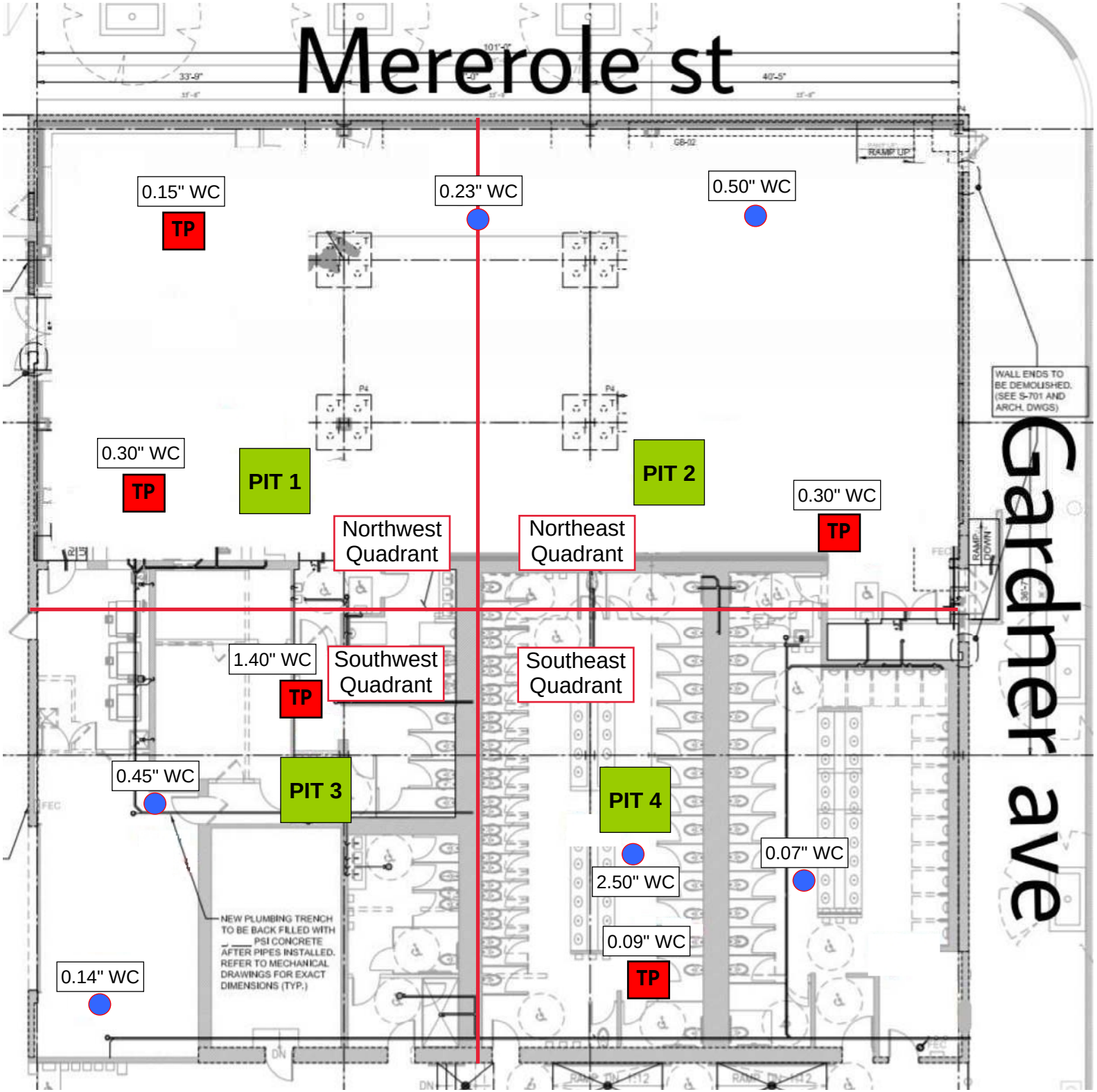
Should you have any questions or require additional information, please do not hesitate to contact me at (631) 786-3323.

Sincerely,

Matt Durcan, P.E.
DURCAN ENGINEERING, P.C.

Attachments: Figure 1 SSDS Pit Locations & Vacuum Readings

cc: Davina Mansur – WRE Holdings
Philipp Wiederkehr – WRE Holdings
David Lent – Partner Engineering



Legend

- Temporary Vapor Monitoring Point (VMP) Location; Tested August 30, 2023
- TP — Permanent Monitoring Point; Tested August 30, 2023

Modified by,
Durcan Engineering, PC
August 30, 2023

FIGURE 1

SSDS Pit Locations and Vacuum Readings
August 30, 2023

111 Gardner Avenue
Brooklyn, NY 11237

DURCAN ENGINEERING, PC

August 31, 2023

Ms. Davina Mansur
Stewart Purchaser, LLC
82 Nassau St, 321
New York, NY 10038

RE: Sub-Slab Depressurization System Testing Results 8/30/2023
140 Stewart Avenue, Brooklyn, New York

Dear Ms. Mansur,

Yesterday, August 30, 2023, Durcan Engineering, PC re-tested the sub-slab depressurization system (SSDS) following your request. The SSDS was previously installed at the subject property on May 18, 2016 and consists of 6 SSDS Gravel Pits. Each pit has a 3" diameter pipe and riser to above the roof where the 3" pipes from each pair of 2 pits are individually valved and combined into the intake of one blower. Each blower has a rated capacity of 300 CFM @ 6.97" WC manufactured by The New York Blower Company. Each of the three blowers provides vacuum, in this manner, to 2 pits.

To confirm continued operational effectiveness and demonstrate a sufficient vacuum Radius of Influence (ROI) within the footprint of the building, on August 30, 2023, Durcan Engineering drilled three (3) 3/8" holes into and through the floor slab and utilized 5 brass test plug point locations recently installed by Partner Engineering at 5 locations throughout the footprint of the building as shown on the attached drawing. Vacuum readings were collected at each of the holes and ranged from 0.05" WC to 1.3" WC. Based on this information, the SSDS is operating efficiently and providing sufficient ROI to address the sub slab vapors. Following the test, each of the drilled holes were sealed up with an epoxy anchor adhesive manufactured by Sika Products. The Brass plug test points were also screwed back into position.

Please refer to the site plan sketch showing the location of the building perimeter walls, SSDS pits and vacuum test locations and readings from yesterday's test. In addition, the electrical current sensing devices for the three blowers were tested and confirmed operational.

I hereby certify and confirm that during my visit and test for sub slab vacuum on August 30, 2023, the SSDS is functioning properly, and the building sub slab soil continues to be under negative pressure for the footprint of the building as evidenced by the areas tested for vacuum readings.

A review of the building slab, in all visible areas, has confirmed that all areas of construction that removed sections of the slab, have been repaired with concrete and there are no remaining slab openings.

In addition, it should be noted that the 3 SSDS blowers were observed to be operating properly and the discharge stacks are physically remote from the HVAC rooftop units.

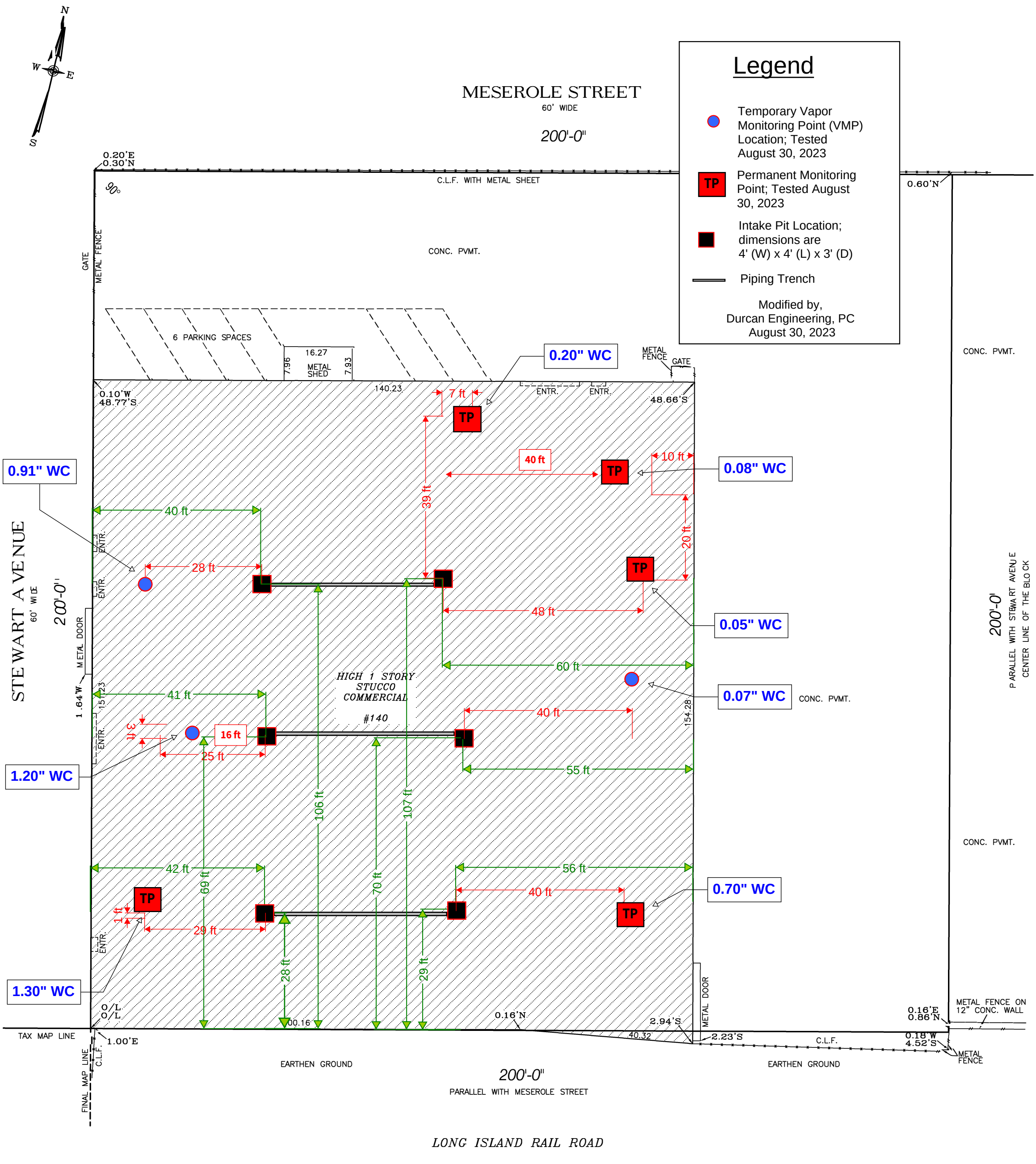
Should you have any questions or require additional information, please do not hesitate to contact me at (631) 786-3323.

Sincerely,

Matt Durcan, P.E.
DURCAN ENGINEERING, P.C.

Attachments: Figure 1 SSDS Pit Locations & Vacuum Readings

cc: Davina Mansur – WRE Holdings
Philipp Wiederkehr – WRE Holdings
David Lent – Partner Engineering



Note: All Air Sample Locations and SSDS Trenches are Approximate

DURCAN ENGINEERING, PC

August 28, 2024

Ms. Davina Mansur
Stewart Purchaser, LLC
82 Nassau St, 321
New York, NY 10038

RE: Sub-Slab Depressurization System Testing Results 8/26/2024
111 Gardner Avenue, Brooklyn, New York

Dear Ms. Mansur,

Yesterday, August 26, 2024, Durcan Engineering re-tested the sub-slab depressurization system (SSDS) following your request. The SSDS was previously installed at the subject property on June 20, 2017 and consists of 4 SSDS Gravel Pits. Each pit has a 3" diameter pipe and riser to above the roof where the 3" pipes from each pair of 2 pits are individually valved and combined into the intake of one blower. Each blower has a rated capacity of 300 CFM @ 6.97" WC and was manufactured by The New York Blower Company. Each of the 2 blowers provides vacuum, in this manner, to 2 pits.

To confirm continued operational effectiveness and demonstrate a sufficient vacuum Radius of Influence (ROI) within the footprint of the building, on August 26, 2024, Durcan Engineering tested 11 locations in the slab. At 6 locations, I drilled 3/8" holes into and through the floor slab and in the remaining 5 locations, I utilized brass test point locations installed by Partner Engineering. The locations of each point are shown on the attached drawing. Vacuum readings were collected at each of the holes and ranged from 0.08" WC to 2.4" WC. Based on this information, the SSDS is operating efficiently and providing sufficient ROI to address the sub slab vapors. Following the test, each of the drilled holes were sealed up with an concrete sealant manufactured by Quickcrete Products.

Please refer to the site plan sketch showing the location of the building perimeter walls, SSDS pits and vacuum test locations and readings from the test. In addition, the current sensing devices for both blowers were tested and confirmed operational.

I hereby certify and confirm that during my visit and test for sub slab vacuum on August 26, 2024, the SSDS is functioning properly, and the building sub slab soil continues to be under negative pressure for the footprint of the building as evidenced by the areas tested for vacuum readings.

A review of the building slab, in all visible areas, has confirmed that all areas of construction that removed sections of the slab, have been repaired with concrete and there are no remaining slab openings.

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Sincerely,

Matt Durcan, P.E.
DURCAN ENGINEERING, P.C.

Attachments: Figure 1 SSDS Pit Locations & Vacuum Readings

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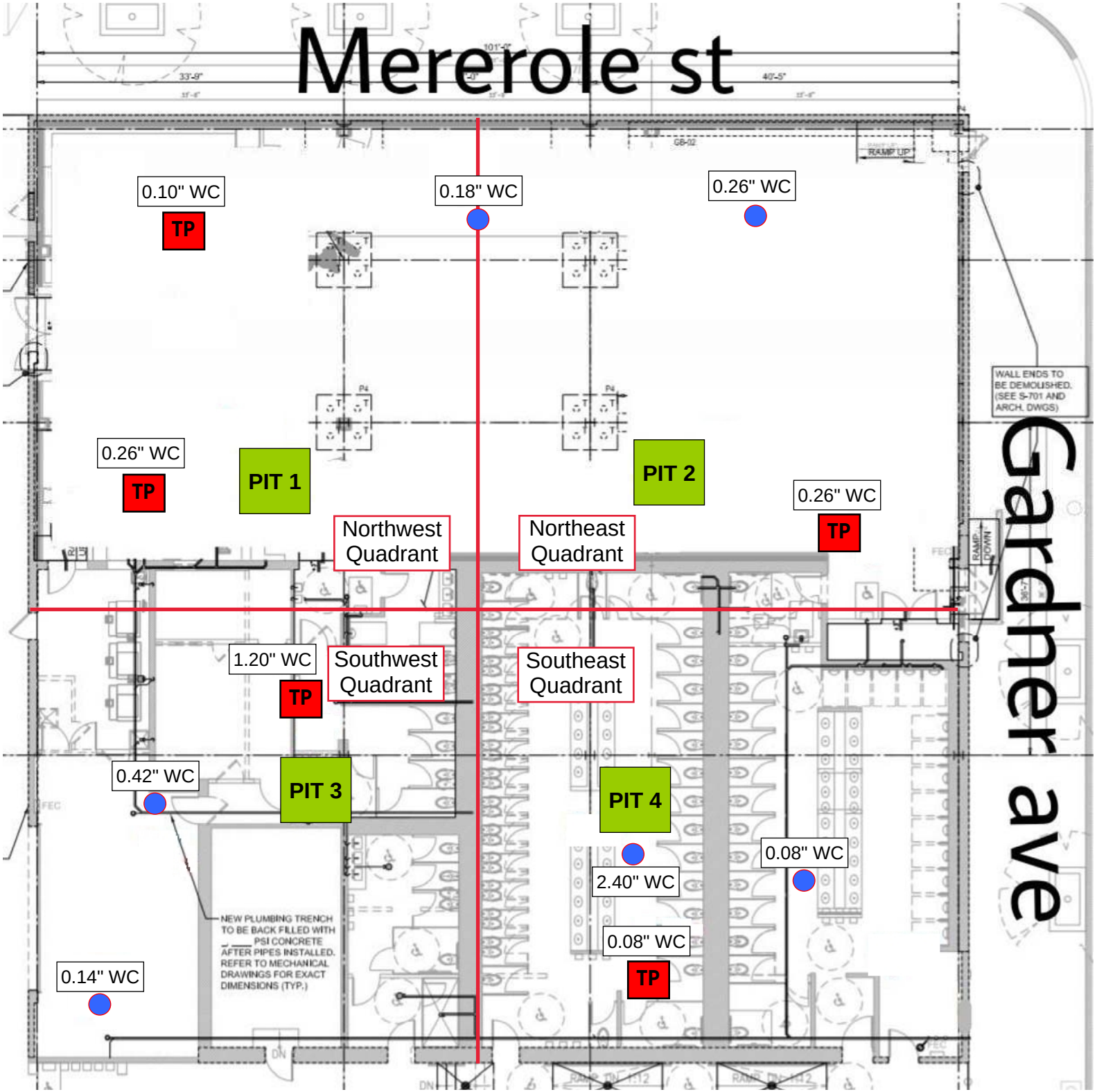
Philipp Wiederkehr – WRE Holdings
David Lent – Partner Engineering



Legend

- Temporary Vapor Monitoring Point (VMP) Location; Tested August 26, 2024
- **TP** Permanent Monitoring Point; Tested August 26, 2024

Modified by,
Durcan Engineering, PC
August 28, 2024

FIGURE 1

SSDS Pit Locations and Vacuum Readings
August 26, 2024

111 Gardner Avenue
Brooklyn, NY 11237

DURCAN ENGINEERING, PC

August 28, 2024

Ms. Davina Mansur
Stewart Purchaser, LLC
82 Nassau St, 321
New York, NY 10038

RE: Sub-Slab Depressurization System Testing Results 8/26/2024
140 Stewart Avenue, Brooklyn, New York

Dear Ms. Mansur,

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To confirm continued operational effectiveness and demonstrate a sufficient vacuum Radius of Influence (ROI) within the footprint of the building, on August 26, 2024, Durcan Engineering drilled three (3) 3/8" holes into and through the floor slab and utilized 5 brass test plug point locations recently installed by Partner Engineering at 5 locations throughout the footprint of the building as shown on the attached drawing. Vacuum readings were collected at each of the holes and ranged from 0.10" WC to 1.32" WC. Based on this information, the SSDS is operating efficiently and providing sufficient ROI to address the sub slab vapors. Following the test, each of the drilled holes were sealed up with a concrete sealant adhesive manufactured by Sacrete Products. The Brass plug test points were also screwed back into position.

Please refer to the site plan sketch showing the location of the building perimeter walls, SSDS pits and vacuum test locations and readings from yesterday's test. In addition, the electrical current sensing devices for the three blowers were tested and confirmed operational.

I hereby certify and confirm that during my visit and test for sub slab vacuum on August 26, 2024, the SSDS is functioning properly, and the building sub slab soil continues to be under negative pressure for the footprint of the building as evidenced by the areas tested for vacuum readings.

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Matt Durcan, P.E.
DURCAN ENGINEERING, P.C.

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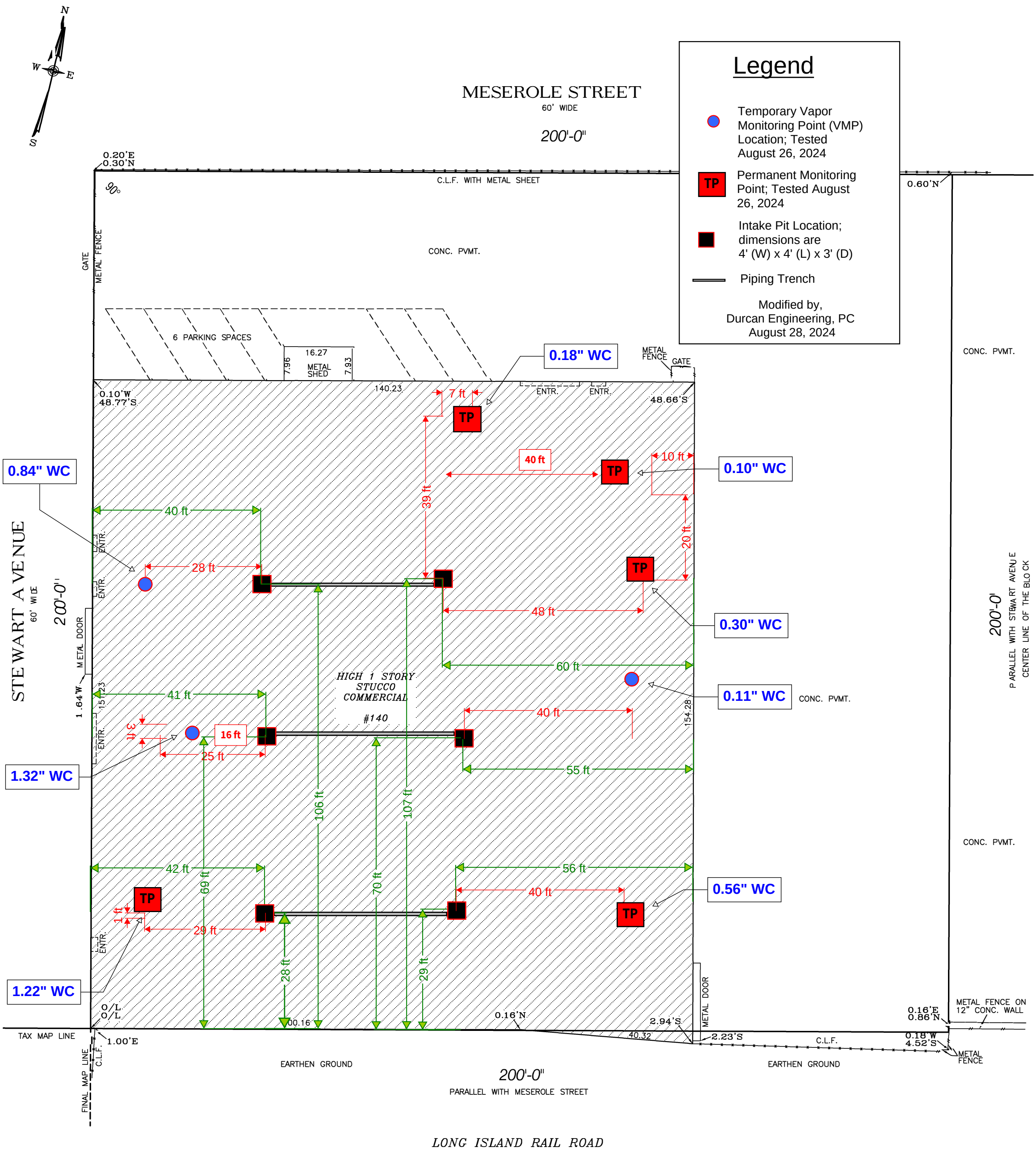


Legend

- Temporary Vapor Monitoring Point (VMP) Location; Tested August 26, 2024
- TP — Permanent Monitoring Point; Tested August 26, 2024
- Intake Pit Location; dimensions are 4' (W) x 4' (L) x 3' (D)
- Piping Trench

Modified by,
Durcan Engineering, PC
August 28, 2024

Note: All Air Sample Locations and SSDS Trenches are Approximate

APPENDIX E: REMEDIAL COST ESTIMATE

PSG

	Track 1 Unrestricted Use Remedial Costs			
	Quantity	**Units**	**Unit Rate**	**Cost**
Engineering Costs				
Soil Sampling for Pre-Characterization				
- Preparation and Project Management	1	LS	$5,000	$5,000
- Mobilization	1	LS	$500	$500
- Drilling Soil Pre-Characterization	3	T&M	$2,750	$8,250
- Soil Pre-Characterization Laboratory Analysis	40	Samples	$1,000	$40,000
- Oversight/Sampling During Soil Pre-Characterization with Field Equipment	2	Day	$1,600	$3,200
- Soil Pre-Characterization Reporting	1	LS	$4,000	$4,000
Remedial Construction				
- Environmental Monitoring During Construction [1]	250	Day	$1,850	$462,500
- Project Management (1 hr/day for Project Manager)	1	T&M	$135	$33,750
- Project Management (1 hr/day for Technical Director)	1	T&M	$185	$46,250
- Fixed Air Monitoring Stations (2 stations for 9 months)	18	/Station/mo	$1,500	$27,000
- Allowance for Import & Confirmatory Sampling (lab costs)	1	LS	$30,000	$30,000
- Final Engineering Report & Site Management Plan	1	LS	$30,000	$30,000
	Track 1 Remedial Costs			
	Quantity	**Units**	**Unit Rate**	**Cost**
Soil Removal During Construction [2,3]				
- Transport and Disposal of Fill > Track 1 SCOs (metals and PAHs)	49,600	Tons	$60	$2,976,000
- Transport and Disposal of cVOC Hotspots	1,368	Tons	$189	$258,552
- Transport and Disposal of Hazardous Waste Soil (PCE, TCE)	32	Tons	$385	$12,320
- Foundation Contractor Mark-up for Disposal	$3,246,872	% of total	10%	$324,700
- Backfill and Surface Restoration	700	Yards	$55	$38,500
- Remedial Additional Support of Excavation for cVOC Hotspots - ALLOWANCE	1	LS	$50,000	$50,000
Tank Removal				
- Remedial Contingency: Tank Removal Contractor	1	LS	$25,000	$25,000
cVOC Hotspot Remediation				
- In Situ Chemical Products for Excavation and Injection Programs	1	LS	$180,000	$180,000
- In Situ Chemical Oxidation Injections	1	LS	$112,500	$112,500
- Monitoring Well Installation	1	LS	$75,000	$75,000
- Groundwater Sampling (*includes immediate pre- and post-remediation)*	2	LS	$15,000	$30,000
SSDS [4]				
- SSDS Recertification	2	LS	$2,500	$5,000
General Conditions, Insurance, Misc.				
- General Conditions	$4,087,572	%	10%	$408,757
- Insurance	$4,087,572	%	10%	$408,757
Subtotal				**$5,596,000**
General Contingency (15%)				**$839,000**
Estimated Total				**$6,435,000**

Notes:
Costs described herein are based upon a proposed development with associated remediation scenario. Actual costs may vary significantly (higher or lower) dependent upon the finalized development program and remedial plan approved by NYSDEC under BCP.

Remediation costs do **not** include the following:
- Stormwater or other permitting
- Sewer site connection permit or sewer discharge fees
- Support of excavation (SOE), excavation & loading of soil required for foundation
- Import of clean fill (excluding contingency for petroleum hot spot)
- Site-wide dewatering during construction (if required)
- Building demolition or disposal of concrete, asphalt, or other debris
- Inflationary escalator - prices based upon estimated costs as of February 2025
- Excludes paving or building slabs for site cap
- Sales tax

[1] ***Environmental Monitoring -*** on-site monitoring (8 hr/day) with PID and particulate monitor for period of 9 months

[2] ***Soil Removal***

Site-Wide Historic Fill	78,910	SF		
Excavation Depth	10	ft		
Total Soil Removal =	29,200	CY =	49,600	tons
cVOC Hotspot removal				
AOC-3 (10x10x20)	2,000	CF		
AOC-7 (44x15x20)	13,200	CF		
AOC-10 (22x15x20)	6,600	CF		
Total cVOC Hotspot Removal	800	CY	1,400	tons

[3] **Soil Removal Notes:** Soil disposal costs based upon using non-union trucking.

[4] **SSDS Notes:** Assumes no additional SSDS design or modification work is required to the existing SSDS at the Site

Limitations

The above estimate contains conclusions that are based on the analysis of data collected at the time and locations noted in PSG's or others' reports through intrusive or non-intrusive sampling. However, further investigation (including soil/waste characterization) might reveal additional data or variations of the current data, which may differ from our understanding of the conditions and may require the enclosed recommendations to be reevaluated or modified. Due to the limited subsurface data, no warranty, expressed or implied, shall be construed with respect to undiscovered liabilities. The presence of biological hazards, radioactive materials, and lead-based paint was not investigated, unless specified in the reports.

Interpretations of the data, including comparison to regulatory standards, guidelines or background values, are not opinions that these comparisons are legally applicable. Furthermore, any conclusions or recommendations should not be construed as legal advice. For such advice, the client is recommended to seek appropriate legal counsel. Disturbance, handling, transportation, storage and disposal of known or potentially contaminated materials is subject to all applicable laws, which may or may not be fully described as part of this report.

The conclusions and/or recommendations provided in this report should not be construed in any way as a classification of waste that may be generated during future disturbance of the project site. Waste(s) generated at the site including excess fill may be considered regulated solid waste and potentially hazardous waste. Requirements for intended disposal facilities should be determined beforehand as no data has been collected to date.

This estimate is based solely on data collected, conducted, and provided by PSG and others. No warranty is expressed or implied by usage of such data. Such data may be included in other investigation reports or documentation. In addition, these data may have been based upon available previous reports, historical records, documentation from federal, state and local government agencies, personal interviews, and geological mapping. This estimate is subject, at a minimum, to the limitations of the previous reports, historical documents, availability and accuracy of collected documentation, and personal recollection of those persons interviewed. In certain instances, PSG has been required to assume that the information provided is accurate with limited or no corroboratory evidence.

	Track 4 Site-Specific Commercial SCO Remedial Costs			
	Quantity	**Units**	**Unit Rate**	**Cost**
Engineering Costs				
Soil Sampling for Pre-Characterization				
- Preparation and Project Management	1	T&M	$5,000	$5,000
- Mobilization	1	LS	$500	$500
- Drilling Soil Pre-Characterization	3	T&M	$2,750	$8,250
- Soil Pre-Characterization Laboratory Analysis	40	Samples	$1,000	$40,000
- Oversight/Sampling During Soil Pre-Characterization with Field Equipment	2	Day	$1,600	$3,200
- Soil Pre-Characterization Reporting	1	LS	$4,000	$4,000
Remedial Construction				
- Environmental Monitoring During Construction [1]	90	Day	$1,850	$166,500
- Project Management (1 hr/day for Project Manager)	1	T&M	$135	$12,150
- Project Management (1 hr/day for Technical Director)	1	T&M	$185	$16,650
- Fixed Air Monitoring Stations (2 stations for 3 months)	6	/Station/mo	$1,500	$9,000
- Allowance for Import & Confirmatory Sampling (lab costs)	1	LS	$30,000	$30,000
- Final Engineering Report & Site Management Plan	1	LS	$30,000	$30,000
	Track 1 Remedial Costs			
	Quantity	**Units**	**Unit Rate**	**Cost**
Soil Removal During Construction [2,3]				
- Transport and Disposal of cVOC Hotspots	600	Tons	$189	$113,400
- Transport and Disposal of Hazardous Waste Soil (PCE, TCE)	32	Tons	$385	$12,320
- Foundation Contractor Mark-up for Disposal	$125,720	% of total	10%	$12,600
- Backfill and Surface Restoration	345	Yards	$55	$19,000
- Remedial Additional Support of Excavation for cVOC Hotspots - ALLOWANCE	1	LS	$50,000	$50,000
Tank Removal				
- Remedial Contingency: Tank Removal Contractor	1	LS	$25,000	$25,000
cVOC Hotspot Remediation				
- In Situ Chemical Products for Excavation and Injection Programs	1	LS	$180,000	$180,000
- In Situ Chemical Oxidation Injections	1	LS	$112,500	$112,500
- Monitoring Well Installation	1	LS	$75,000	$75,000
- Groundwater Sampling (*includes immediate pre- and post-remediation)*	2	LS	$15,000	$30,000
SSDS [4]				
- SSDS Recertification	2	LS	$2,500	$5,000
General Conditions. Insurance, Misc.				
- General Conditions	$634,820	%	10%	$63,482
- Insurance	$634,820	%	10%	$63,482
Subtotal				**$1,087,000**
General Contingency (15%)				**$163,000**
Estimated Total				**$1,250,000**

Notes:

Costs described herein are based upon a proposed development with associated remediation scenario.
Actual costs may vary significantly (higher or lower) dependent upon the finalized development program and remedial plan approved by NYSDEC under BCP.

Remediation costs do **not** include the following:

- Stormwater or other permitting
- Sewer site connection permit or sewer discharge fees
- Support of excavation (SOE), excavation & loading of soil required for foundation
- Import of clean fill (excluding contingency for petroleum hot spot)
- Site-wide dewatering during construction (if required)
- Building demolition or disposal of concrete, asphalt, or other debris
- Inflationary escalator - prices based upon estimated costs as of February 2025
- Excludes paving or building slabs for site cap
- Sales tax

[1] ***Environmental Monitoring -*** on-site monitoring (8 hr/day) with PID and particulate monitor for period of 9 months

[2] ***Soil Removal***

cVOC Hotspot removal

AOC-7 (44x15x10)	6,600	CF	
AOC-10 (22x15x8)	2,640	CF	
Total cVOC Hotspot Removal	350	CY	600 tons

[3] **Soil Removal Notes:** Soil disposal costs based upon using non-union trucking.

[4] **SSDS Notes:** Assumes no additional SSDS design or modification work is required to the existing SSDS at the Site

Limitations

The above estimate contains conclusions that are based on the analysis of data collected at the time and locations noted in PSG's or others' reports through intrusive or non-intrusive sampling. However, further investigation (including soil/waste characterization) might reveal additional data or variations of the current data, which may differ from our understanding of the conditions and may require the enclosed recommendations to be reevaluated or modified. Due to the limited subsurface data, no warranty, expressed or implied, shall be construed with respect to undiscovered liabilities. The presence of biological hazards, radioactive materials, and lead-based paint was not investigated, unless specified in the reports.

Interpretations of the data, including comparison to regulatory standards, guidelines or background values, are not opinions that these comparisons are legally applicable. Furthermore, any conclusions or recommendations should not be construed as legal advice. For such advice, the client is recommended to seek appropriate legal counsel. Disturbance, handling, transportation, storage and disposal of known or potentially contaminated materials is subject to all applicable laws, which may or may not be fully described as part of this report.

The conclusions and/or recommendations provided in this report should not be construed in any way as a classification of waste that may be generated during future disturbance of the project site. Waste(s) generated at the site including excess fill may be considered regulated solid waste and potentially hazardous waste. Requirements for intended disposal facilities should be determined beforehand as no data has been collected to date.

This estimate is based solely on data collected, conducted, and provided by PSG and others. No warranty is expressed or implied by usage of such data. Such data may be included in other investigation reports or documentation. In addition, these data may have been based upon available previous reports, historical records, documentation from federal, state and local government agencies, personal interviews, and geological mapping. This estimate is subject, at a minimum, to the limitations of the previous reports, historical documents, availability and accuracy of collected documentation, and personal recollection of those persons interviewed. In certain instances, PSG has been required to assume that the information provided is accurate with limited or no corroboratory evidence.

APPENDIX F: CONTAINED-IN DETERMINATION

PSG

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Bureau of Hazardous Waste & Radiation Management,
Hazardous Waste Compliance & Technical Support Section
625 Broadway, Albany, New York 12233-7256
P: (518) 402-8652 | F: (518) 402-9024
www.dec.ny.gov

November 20, 2024

Sent via e-mail, no hard copy to follow

Mr. David R. Lent, P.G.
Senior Project Manager
Environmental Solutions Group
PARTNER ENGINEERING AND SCIENCE, INC.
222 Bloomingdale Road, Suite 303
White Plains, NY, 10605

RE: "Contained-In" Determination Request
NYSDEC Site No. C224258
Avant Gardner Site
140 Stewart Avenue & 111 Gardner Avenue
Brooklyn, Kings County, New York 11237
PSG Project Number 21405366

Dear Mr. Lent:

The New York State Department of Environmental Conservation (DEC) has reviewed the analytical data submitted with your email dated July 17, 2024, requesting a "contained-in" determination soils to be generated from AOC 7 and AOC 10 that was conducted at the Avant Gardner Brownfield Cleanup Program (BCP) Site C224258. (See Figure 4).

Evaluation

AOC 10

Concentrations (Lab Sample ID: L2126605-02, L2126605-03, L2126901-07, L2126901-08, L2126281-08, L2126281-11, L2126281-12, L2126281-05, L2125356-02, L2335541-45, L2335541-46, L2335541-47, L2335541-49, L2335541-50, L2335541-51, L2335541-52, L2335541-53, L2335541-54, L2335541-55, L2335541-56, L2335541-58, L2335541-59, L2335541-60, L2335541-61, L2335541-62) detected for individual VOCs, SVOCs, pesticides, PCBs and metals were all significantly less than their current "contained-in" soil action levels, "contained-in" soil action levels and Land Disposal Restriction concentrations. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level.

Concentrations (Lab Sample ID: L2126605-02, L2126605-03, L2126901-07, L2126901-08, L2126281-08, L2126281-11, L2126281-12, L2126281-05, L2125356-02, L2335541-45, L2335541-46, L2335541-47, L2335541-49, L2335541-50, L2335541-51, L2335541-52, L2335541-53, L2335541-54, L2335541-55, L2335541-56, L2335541-58, L2335541-59, L2335541-60, L2335541-61, L2335541-62) for tetrachloroethene, trichloroethene, cis-1,2 dichloroethene and vinyl chloride were below the soil "contained-in" action level, "contained-in" groundwater action levels and the Land Disposal Restriction concentration. Therefore, soil excavated from AOC 10 does not have to be managed as hazardous waste and can be transported off-site to a permitted solid waste facility, for disposal as a solid waste. Please provide DEC the name and location of the facility.

AOC 7

All soils in AOC 7 except the soil within the area delineated to the west by boring 7-B2; to the south by boring 7-1S; to the north by 7-B1N; and to the east by 7-B1E is part of this contained-in approval. Samples at 7-B1W(1.5-2), 7-B1W(4.5-5) and 7-B1WW(1.5-2) showed concentrations of Tetrachloroethylene (PCE) above 60 mg/kg. Sample 7B1 (9-10) showed concentrations of Trichloroethylene (TCE) above 60 mg/kg. A contained-in request can be made for these soils when confirmatory samples are received.

Concentrations (Lab Sample ID: L2126605-07, L2126605-08, L2335541-26, L2335541-27, L2335541-28, L2335541-29, L2335541-30, L2335541-31, L2335541-32, L2335541-33, L2335541-34, L2335541-35, L2335541-36, L2335541-40, L2335541-41, L2335541-42, L2335541-44, L2126605-05, L2126605-06, L2126605-09, L2126281-07) detected for individual VOCs, SVOCs, pesticides, PCBs and metals were all significantly less than their current "contained-in" soil action levels, "contained-in" groundwater action levels and Land Disposal Restriction concentrations. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level.

Concentrations (Lab Sample ID: L2126605-07, L2126605-08L2335541-28, L2335541-30, L2335541-31, L2335541-32,L2335541-33, L2335541-34, L2335541-35, L2335541-36, L2335541-40, L2335541-41, L2335541-42, L2335541-44, L2126605-05, L2126605-06, L2126605-09, L2126281-07) for tetrachloroethene, trichloroethene, cis-1,2 dichloroethene and vinyl chloride were below the soil "contained-in" action level, "contained-in" soil action levels and the Land Disposal Restriction concentration. Therefore, soil excavated from AOC 7 outside the delineated area does not have to be managed as hazardous waste and can be transported off-site to a permitted solid waste facility, for disposal as a solid waste. Please provide DEC the name and location of the facility.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9594 or email me at contained-inrequest@dec.ny.gov.

Sincerely,

Alison Egbon
Professional Engineer I
Hazardous Waste Compliance and Technical Support Section

ec: M.Yau, DEC Region 2

July 17, 2024

Attention: RCRA Compliance and Technical Section
New York State Department of Environmental Conservation
Department of Environmental Remediation
625 Broadway
Albany, New York, 12233
henry.wilkie@dec.ny.gov

RE: "Contained-In" Determination Request
NYSDEC Site No. C224258
Avant Gardner Site
140 Stewart Avenue & 111 Gardner Avenue
Brooklyn, Kings County, New York 11237
PSG Project Number: ES22-387153

Dear Mr. Wilkie:

PSG Engineering and Geology, D.P.C. (PSG) submits this "Contained-In" Determination Request for the Avant Gardner Brownfield Cleanup Program (BCP) Site #C224258 (the "Site"). This letter seeks a determination regarding the management of chlorinated volatile organic compound (CVOC) contaminated soil and investigation-derived waste (IDW) that will be generated during the proposed remedial excavations and drilling/monitoring well installations at the Site.

The proposed remedy implementation for the Site will result in the generation of the following waste:

- Contaminated soil excavated from two Areas of Concern (AOC 7 and AOC 10);
- Drill spoils; and
- Monitoring well purge water.

Due to site logistics and ongoing business operations, it is essential to predetermine the waste classification prior to generation to facilitate timely waste removal during remedy implementation, minimizing the need to stage significant amounts of waste on-site.

Based on the information and data provided below from prior investigations, PSG request confirmation that these materials do not require management as hazardous waste.

Site Description:

The Site is located in the Williamsburg section of Brooklyn, New York and is identified as Block 2977 and Lots 1, 14, 15 and 16 on the New York City Tax Map. The Site is approximately 80,000-square feet and is bound by Meserole Street to the north, railroad tracks to the south, Gardner Avenue to the east, and Stewart Avenue to the west. A Site Boundary Map is attached as **Figure 1**. A United States Geological Survey (USGS) topographical quadrangle map (**Figure 2**) depicts the Site location.

The Site is currently an entertainment/music venue, but previously housed steel fabrication operations and a rubbish removal service. Onsite operations consist of an entertainment/music venue, office areas, full-service bars, temporary food stands and a ticket office. The Site is currently occupied by two (2) one-story buildings, one on the northeast corner (111 Gardner Avenue) and one on the southwest corner (140 Stewart Avenue), with asphalt paved areas throughout most of the remaining areas of the Site.

The "Brooklyn Mirage" is located in the courtyard between the two buildings. This area includes scaffolding consisting of a two-story catwalk and a four-story observation tower. This structure includes open bars, VIP seating areas, observation decks, and a stage. There are no enclosed areas intended for human occupation within the scaffolding structure.

Summary of Site Environmental Conditions:

Investigations conducted to date have identified CVOC soil impacts above New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objectives (UUSCOs) in the central and eastern portions of the Site, based on investigations conducted in 2016, 2017, 2020, and 2021. These impacts appear to be confined to AOC 7, between the 140 Stewart Avenue and 111 Gardner Avenue buildings, and AOC-10, immediately south of the 111 Gardner building, to depths of up to 14.5 feet below ground surface (bgs). No residual product or evidence of dense non-aqueous-phase liquid (DNAPL) was observed during the advancement of borings in prior investigations.

Additionally, sitewide historic urban fill-related impacts are present in shallow soils throughout the Site, with elevated concentrations of semi-volatile organic compounds (SVOCs), metals, pesticides, and polychlorinated biphenyls (PCBs) exceeding NYSDEC UUSCOs. Benzo(a)pyrene, benzo(b)fluoranthene, arsenic, copper, lead, and mercury were identified above NYSDEC Commercial Use Soil Cleanup Objectives (CUSCOs) and NYSDEC Protection of Groundwater Soil Cleanup Objectives (PGWSCOs) in multiple shallow soil samples within the historic urban fill layer during PSG's 2021 investigation.

Shallow CVOC groundwater impacts were also identified in the vicinity of the former liquid bleach manufacturing building (AOC-7) and at significantly lower concentrations across the remainder of the Site. During the 2021 remedial investigation conducted by PSG, CVOC concentrations were identified in the shallow groundwater zone in the vicinity of AOC-7 at concentrations up to 9,200 µg/L tetrachloroethene (PCE); 1,100 µg/L trichloroethene (TCE); 7,100 µg/L; cis-1,2 dichloroethene (c1,2-DCE); 1,700 µg/L vinyl chloride; 18 µg/L 1,1-dichloroethane (DCA); 1,1-DCE; and 25 µg/L trans 1,2-DCE.

Additionally, SVOCs, metals, dissolved metals, PCBs, perfluorooctanoic acid (PFOA), and perfluorooctanesulfonic acid (PFOS) were identified across the Site in shallow zone groundwater samples at relatively low concentrations, slightly above NYSDEC Ambient Water Quality Standards (AWQGs).

Pre-design Investigation (June 2023):

On June 20, 2023, Coastal Environmental Solutions, Inc. (Coastal), under the direction of PSG, advanced six borings near Remedial Investigation (RI) boring 7-B1 and six borings near RI boring 10-B6 using Geoprobe direct-push equipment. The borings were advanced to a depth of approximately 5 feet below the soil/groundwater interface, or to a maximum depth of 15 feet below ground surface (bgs). Continuous soil samples were collected from each boring at 5-foot intervals using a MacroCore sampler. Each soil sample was inspected for visual and olfactory evidence of contamination and field-screened for volatile organic

vapors using a photoionization detector (PID). Depending on soil recovery, up to three soil samples were collected from each boring: one near-surface soil sample from shallow soils (1-2 feet bgs), one sample from intermediate soils (4-6 feet bgs), and one sample from the 6-inch interval immediately above the soil/groundwater interface.

Soil samples collected were placed in a laboratory-supplied cooler on ice and delivered under proper chain of custody to an Environmental Laboratory Approval Program (ELAP)-certified laboratory for analysis for analysis of VOCs via EPA Method 8260.

The following VOCs were detected in soil samples above the regulatory criteria in AOC-7:

- PCE was identified in soil samples 7-B1W (4.5-5) and 7-B1WW (1-1.5) above the above the CUSCO. PCE was identified in soil samples 7-B1W (1.5-2), 7-B1WW (4-4.5), 7-B1E (4-4.5), 7-B1E (5.5-6), and 7-B1S (4-4.5) above the PGWSCO and UUSCO.
- TCE was identified in soil samples 7-B1W (4.5-5), 7-B1WW (1-1.5), 7-B1WW (4-4.5), 7-B1E (4-4.5), and 7-B1S (4-4.5) above the PGWSCO and UUSCO.
- Cis-1,2-dichloroethene was identified in soil samples 7-B1W (1.5-2), 7-B1W (4.5-5), 7-B1WW (1-1.5), 7-B1WW (4-4.5), 7-B1E (4-4.5), 7-B1E (5.5-6), 7-B1S (4-4.5), and 7-B1S (5.5-6) above the PGWSCO and UUSCO.
- Vinyl chloride was identified in soil samples 7-B1E (4-4.5), 7-B1E (5.5-6), and 7-B1S (5.5-6) above the PGWSCO and UUSCO.
- Trans-1,2-dichloroethene was identified in soil samples 7-B1W (1.5-2) and 7-B1WW (1-1.5) above the PGWSCO and UUSCO.
- 1,1,1-Trichloroethane (1,1,1-TCA) was identified in soil samples 7-B1W (4.5-5) and 7-B1WW (1-1.5) above the PGWSCO and UUSCO.
- 1,2-Dichlorobenzene was identified in soil sample 7-B1WW (4-4.5) above the PGWSCO and UUSCO.
- Benzene was identified in soil sample 7-B1E (5.5-6) above the PGWSCO and UUSCO.
- Acetone was identified in soil samples 7-B1W (6.5-7), 7-B1E (1.5-2), and 7-B1S (1.5-2) above the PGWSCO and UUSCO.
- Chloroform was identified in soil samples 7-B1W (4.5-5), 7-B1WW (1-1.5), and 7-B1E (4-4.5) above the PGWSCO and UUSCO.

The following VOCs were detected in soil samples above the regulatory criteria in AOC-10:

- PCE was identified in soil samples 10-B6W (4.5-5), 10-B6N (4.5-5), and 10-B6E (4.5-5) above the PGWSCO and UUSCO.
- TCE was identified in soil samples 10-B6W (4.5-5) and 10-B6N (4.5-5) above the PGWSCO and UUSCO.
- Cis-1,2-dichloroethene was identified in soil sample 10-B6W (4.5-5) above the PGWSCO and UUSCO.

- Vinyl chloride was identified in soil sample 10-B6W (7.5-8) above the PGWSCO and UUSCO.
- Acetone was identified in soil samples 10-B6W (1.5-2), 10-B6N (9.5-10), 10-B6E (9.5-10), and 10-B6S (9.5-10) above the PGWSCO and UUSCO.

Based on the soil analytical results for AOC-7 and AOC-10, the area of soil containing CVOCs above the Protection of Groundwater Soil Cleanup Objectives (PGWSCOs) is delineated to approximately 550 square feet (sf) around RI boring 7-B1 and 330 sf around boring 10-B6, extending to the north, south, and west. PSG has prepared a Remedial Action Work Plan (RAWP), which is currently under review by the NYSDEC. The proposed remedy for CVOC-impacted soil at AOCs 7 and 10 involves excavation and disposal at an appropriate permitted facility. Monitoring wells will be installed at AOC 7 to monitoring the effectiveness of the remedy.

In addition to the soil sampling described above, PSG collected a waste characterization soil sample, designated as WC-7/10, from AOCs 7 and 10 on July 3, 2023. This sample included one discrete soil sample for VOC analysis and one composite soil sample for the analysis of polycyclic aromatic hydrocarbons (PAH), Total RCRA metals, TCLP RCRA metals, PCBs, paint filter, and hazardous waste characteristics, including reactivity, corrosivity, and ignitability. The composite samples were created from representative soil borings advanced during the pre-design investigation.

A Sitewide Sample Location Map is provided as **Figure 3**. Boring locations and proposed excavation areas specific to AOCs 7 and 10 are depicted on **Figure 4**. Historical soil analytical data for AOCs 7 and 10 are provided in **Tables 1.** Historical groundwater analytical data are provided in **Tables 2 and 3**.

Please note that while additional sitewide analytical results are included in the full laboratory reports, this "Contained-In" Determination Request is limited to samples collected from AOC-7 and AOC-10.

Closing:

Based on the characterization results of the CVOC hotspots at AOC-7 and AOC-10, PSG requests approval to dispose of the CVOC-contaminated soil, drill spoils, and monitoring well purge water generated during the implementation of the proposed remedy as non-hazardous waste.

If you should have any questions regarding the information presented in this request, please feel free to contact me at (914) 222-8011, or via email at dlent@partneresi.com at your convenience.

Sincerely,

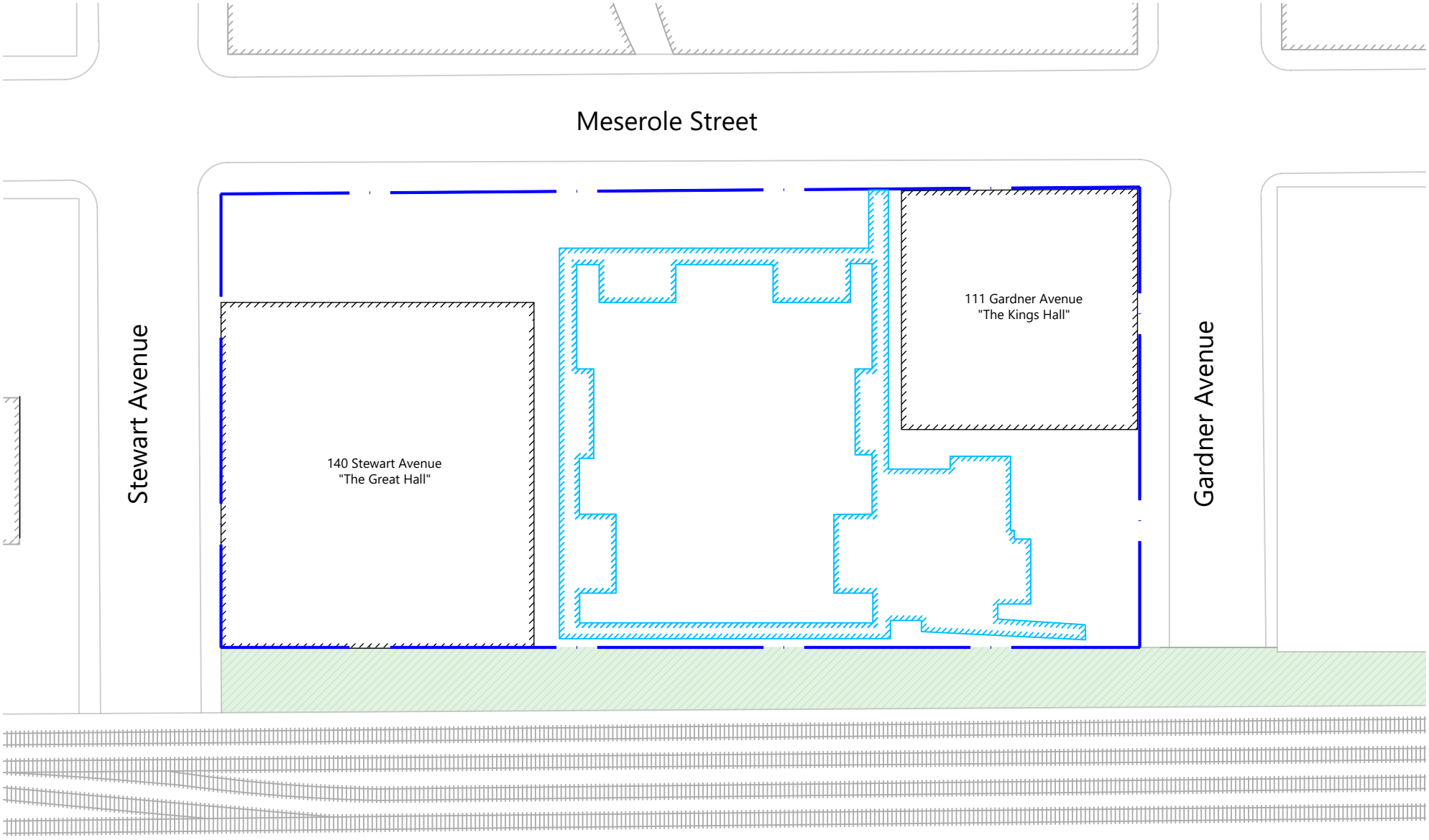
PSG Engineering and Geology, D.P.C.

David R. Lent

David R. Lent, P.G.
Technical Director,
Environmental Solutions Group

Attachments: Figures
Tables
Laboratory Reports

FIGURES



Legend and Notes:

- Site Boundary
- Site Building
- Scaffolding

- BGS = Below Ground Surface

N

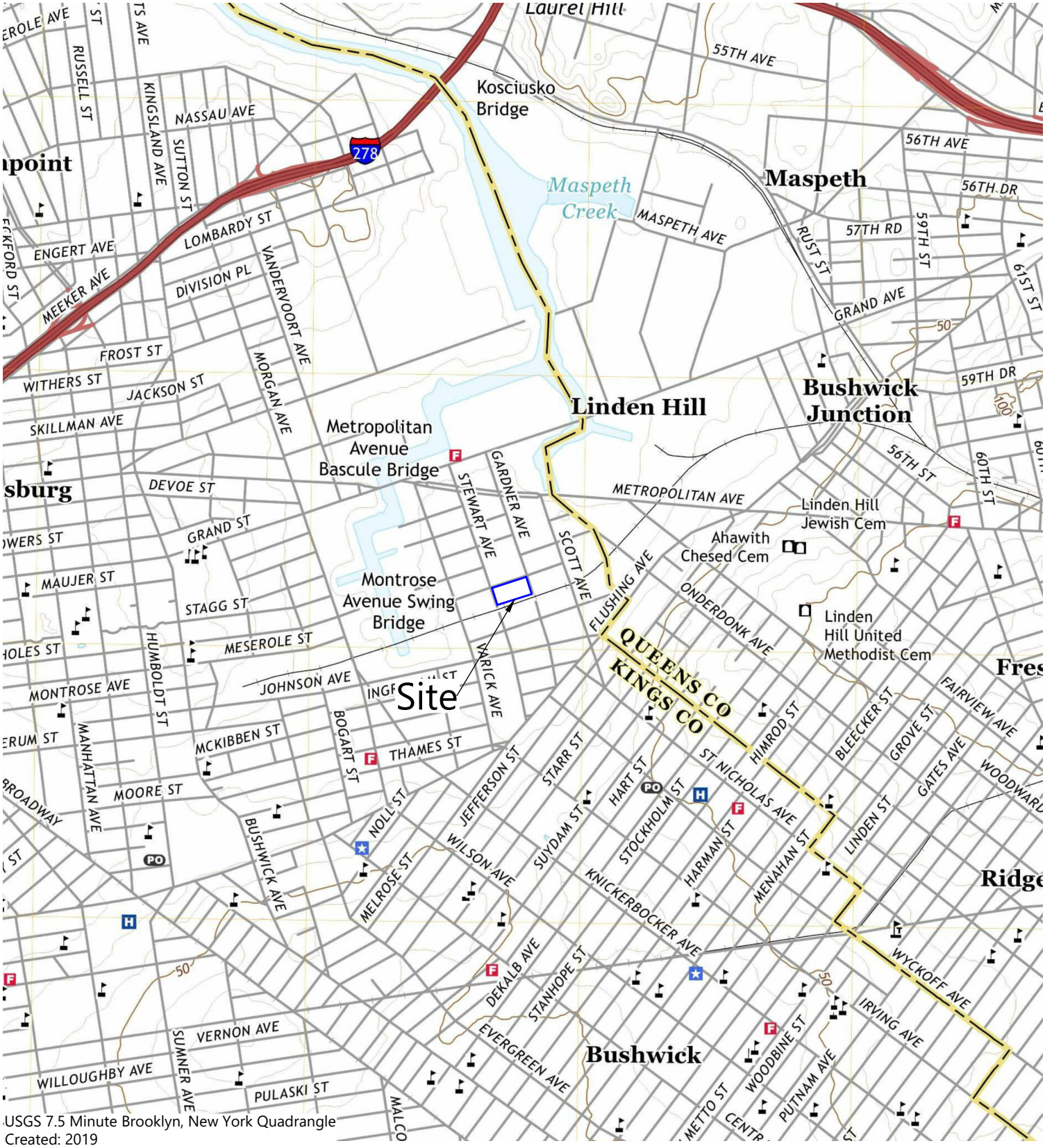
30' 0' 30' 60'

Approximate Scale

Title: **Site Boundary Map**			
Figure: **1**	Prepared By: **AS**	Date: **June 2024**	Project Number: **ES22-387153**

Address:
NYSDEC BCP Site #C224258
140 Stewart Avenue and 111 Gardner Avenue
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



USGS 7.5 Minute Brooklyn, New York Quadrangle
Created: 2019

Legend

Site Boundary

N

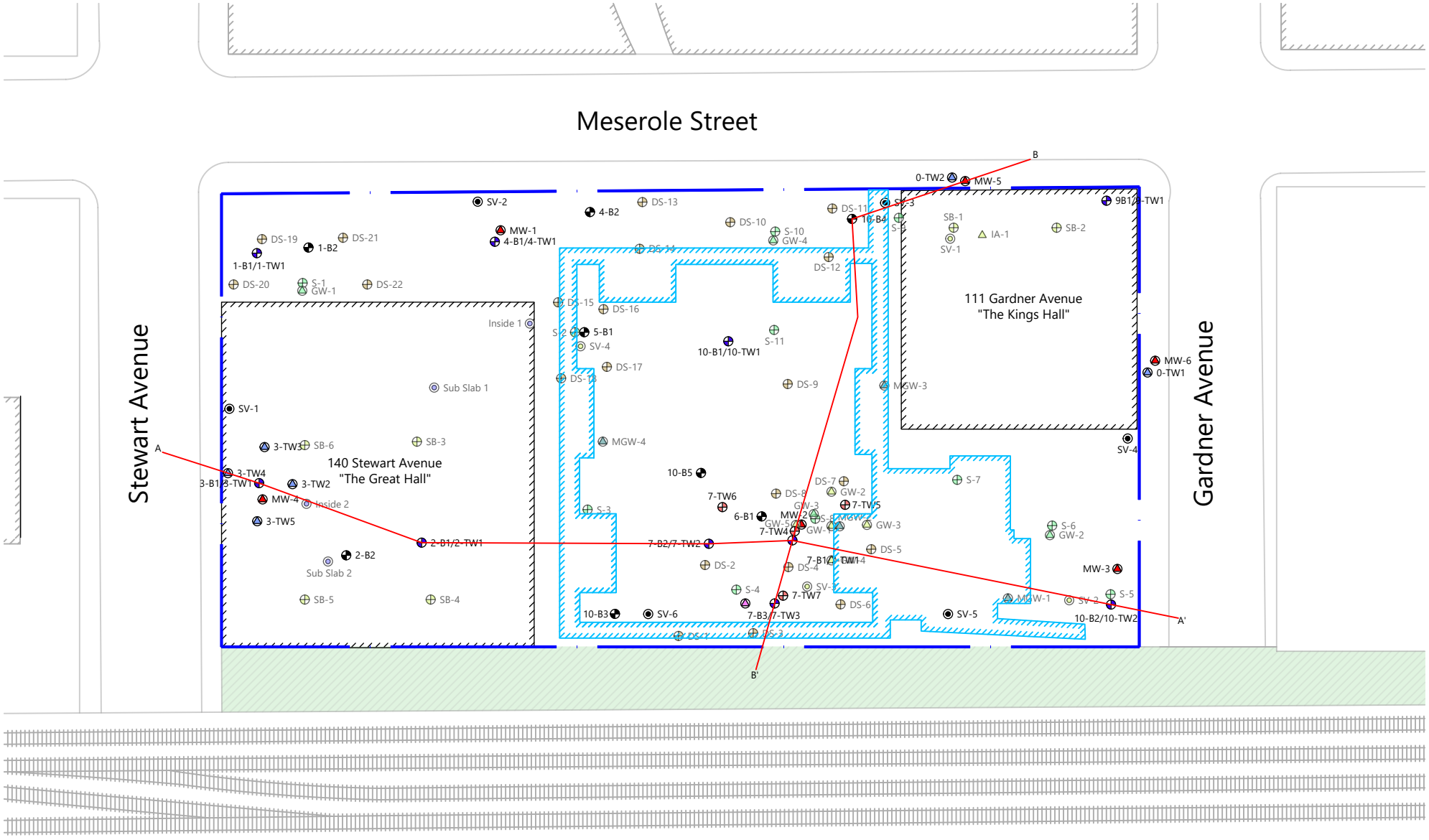
800' 0' 800' 1,600'

Approximate Scale

Title: Topographic Map			
Figure: 2	Prepared By: AS	Date: June 2024	Project Number: ES22-387153

Address:
NYSDEC BCP Site #C224258
140 Stewart Avenue and 111 Gardner Avenue
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



Legend and Notes:

Site Boundary		B-1	2022 Boring Location	Inside 1	Fromer Soil Vapor/Air Sampling Location (Previous Investigation)
Site Building		S-1	Former Soil Boring Location (Phase II)	IA-1	Indoor Air Sample Location (GCE SI)
Scaffolding		DS-1	Former Soil Boring Location (Phase III)		Proposed Soil Boring Location (Partner, June 2023)
1-B2	Soil Boring Location	SB-1	Former Soil Boring Location (GCE SI)		Cross-Section Line
9-B1	Soil Boring/Temporary Well Loction	GW-1	Former Groundwater Sample Loction (Phase II)		
SV-1	Soil Vapor Sample Location	GW-1	Former Groundwater Sample Location (GCE SI)		
MW-1	Monitoring Well Location	MGW-1	Former Groundwater Sample Location (Supplemental Phase II)		
0-TW1	Temporary Well Location	SV-1	Former Soil Vapor Sample Location (GCE SI)		

N

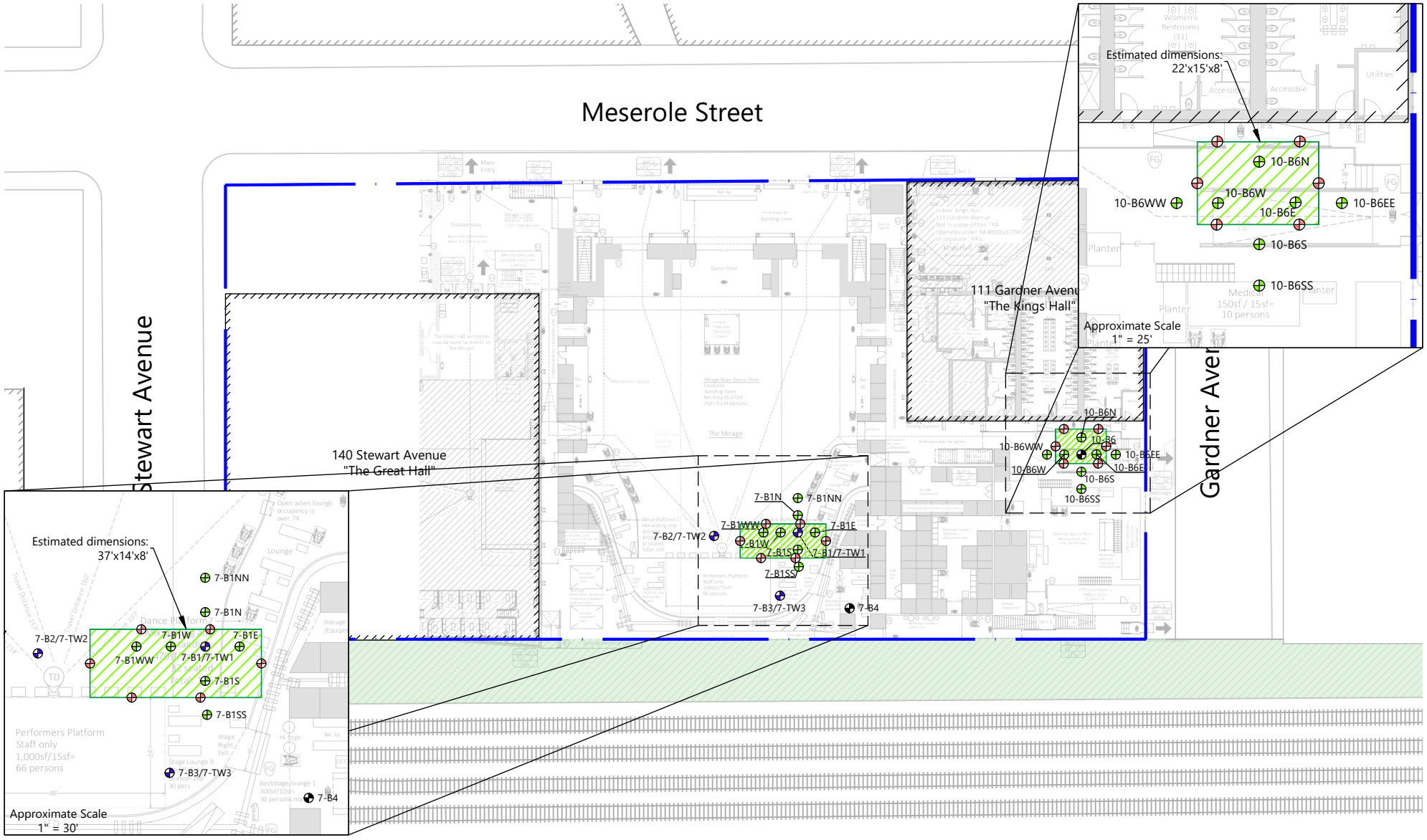
30' 0' 30' 60'

Approximate Scale

Title: **Sample Location Map**			
Figure: **3**	Prepared By: **AS**	Date: **June 2024**	Project Number: **ES22-387153**

Address:
NYSDEC BCP Site #C224258
140 Stewart Avenue and 111 Gardner Avenue
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.



Legend and Notes:

- Site Boundary
- Site Building
- Soil Boring Location (PSG, May 2021)
- Soil Boring Location (PSG, June 2023)
- Soil Boring/Temporary Well Loction (PSG, May 2021)
- End-Point Sample Location
- Approximate Limits of Proposed cVOC Soil Hot Spot Removal

N

30' 0' 30' 60'

Approximate Scale

Title: **AOCs 7 and 10 cVOC Soil Hot-Spot Investigation**			
Figure: **4**	Prepared By: **AS**	Date: **July 2024**	Project Number: **ES22-387153**

Address:
NYSDEC BCP Site #C224258
140 Stewart Avenue and 111 Gardner Avenue
Brooklyn, New York 11237

PSG Engineering and Geology, D.P.C.

TABLES

PSG

Table 1
Soil Analytical Results
NYSDEC Site No. C224258
VOCs

Information				Volatiles (SW846 8260C)																				
Sample No.	**Laboratory ID #**	**Date Collected**	**Sample Depth (ft.)**	**PCE**	**TCE**	**1,1,1-Trichloroethane**	**1,1-Dichloroethane**	**1,1-Dichloroethene**	**1,2-Dichloro benzene**	**1,2-Dichloroethane**	**cis-1,2-Dichloroethene**	**trans-1,2-Dichloroethene**	**Methylene chloride**	**Vinyl chloride**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylenes**	**Naphthalene**	**Acetone**	**Chloroform**	**2-Butanone**	**1,2,4-Trimethyl benzene**	**1,3,5-Trimethyl benzene**	**1,4-Dioxane**
NY-UNRES (mg/kg)				1.3	0.47	0.68	0.27	0.33	1.1	0.2	0.25	0.19	0.05	0.02	0.06	0.7	1	0.26	12	0.05	0.37	0.12	3.6	8.4	0.1
NY-COM (mg/kg)				150	200	500	240	500	500	30	500	500	500	13	44	500	390	500	500	500	350	500	190	190	130
NY-Protection of GW (mg/kg)				1.3	0.47	0.68	0.27	0.33	1.1	0.2	0.25	0.19	0.05	0.02	0.06	0.7	1	1.6	12	0.05	0.37	0.12	3.6	8.4	0.1
7-B1 (9-10)	L2126605-07	5/19/2021	9.0-10.0	2,200	140	ND	0.0023	**ND**	ND	**ND**	21	**ND**	**ND (6.6)**	**ND**	**ND**	2.1 J	0.68 J	1.9 J	3.2 J	**ND**	**ND**	**ND**	4.3 J	1.6 J	**ND**
7-B1 (27-27.5)	L2126605-08	5/19/2021	27.0-27.5	0.04	0.0021	ND	0.00031 J	0.0004 J	ND	ND	0.0031	ND	ND	0.00063 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7-B1W (1.5-2)	L2335541-26	6/20/2023	1.5-2.0	2.8	0.2	0.059	0.00093 J	ND	0.0024 J	ND	0.36	0.0044	ND	0.0022	0.00031 J	ND	ND	ND	ND	0.011	0.026	0.0028 J	ND	ND	NS
7-B1W (4.5-5)	L2335541-27	6/20/2023	4.5-5.0	350	32	1	0.14 J	ND	ND	**ND (0.16)**	50	0.33 J	**ND (1.4)**	**ND (0.21)**	**ND (0.1)**	ND	ND	ND	ND	**ND (3)**	4.3	**ND (1.4)**	ND	ND	NS
7-B1W (6.5-7)	L2335541-28	6/20/2023	6.5-7.0	0.072	0.0057	ND	ND	ND	0.0025	ND	0.035	0.00038 J	ND	0.0049	0.0008	0.0012	0.0009 J	0.001 J	ND	0.065	0.00055 J	0.0089 J	0.00056 J	0.00051 J	NS
7-B1WW (1-1.5)	L2335541-29	6/20/2023	1.0-1.5	1,200	38	2.4	**ND (0.42)**	**ND (0.69)**	ND	ND (0.74)	110	0.67 J	**ND (6.6)**	**ND (0.97)**	**ND (0.48)**	**ND (1.6)**	**ND**	**ND (0.84)**	ND	**ND (14)**	18	**ND (6.4)**	ND	ND	NS
7-B1WW (4-4.5)	L2335541-30	6/20/2023	4.0-4.5	6.9	1.1	ND	ND	ND	0.68	ND	0.84	0.014 J	**ND (0.15)**	**ND (0.023)**	0.087	0.18	0.12	0.19 J	ND	**ND (0.32)**	ND	**ND (0.15)**	0.16	0.074 J	NS
7-B1WW (4.5-5)	L2335541-31	6/20/2023	4.5-5.0	0.17	0.026	ND	ND	ND	0.0021 J	ND	0.02	0.0005 J	ND	ND	0.00058 J	0.0016	0.0015	0.0023 J	ND	0.026	ND	0.014 J	ND	ND	NS
7-B1E (1.5-2)	L2335541-32	6/20/2023	1.5-2.0	0.0089	0.0018	ND	ND	ND	0.00038 J	ND	0.018	0.00024 J	0.0024 J	0.0036	0.0012	0.0049	0.00094 J	0.0021 J	ND	0.11	ND	0.016	0.0013 J	0.00056 J	NS
7-B1E (4-4.5)	L2335541-33	6/20/2023	4.0-4.5	10	1.9	ND	ND	ND	0.011 J	ND	7.1	0.074 J	**ND (0.16)**	0.042 J	ND	ND	ND	ND	ND	**ND (0.34)**	0.84	**ND (0.15)**	ND	ND	NS
7-B1E (5.5-6)	L2335541-34	6/20/2023	5.5-6.0	1.9	0.29	ND	ND	ND	4.4	ND	4	0.064 J	**ND (0.14)**	0.16	ND	ND	0.011 J	0.047 J	ND	**ND (0.29)**	ND	**ND (0.13)**	1.8	0.63	NS
7-B1N (1.5-2)	L2335541-35	6/20/2023	1.5-2.0	0.004	0.00082	ND	ND	ND	0.00079 J	ND	0.0043	ND	ND	0.0035	0.00065	0.0012	0.00083 J	0.004	ND	0.025	ND	0.016	0.0059	0.0021	NS
7-B1N (4-4.5)	L2335541-36	6/20/2023	4.0-4.5	0.16	0.0079	ND	ND	ND	ND	ND	0.0038	ND	ND	ND	ND	ND	ND	ND	ND	0.038	0.001 J	0.02	ND	ND	NS
7-B1S (1.5-2)	L2335541-40	6/20/2023	1.5-2.0	0.028	0.0024	ND	ND	ND	0.0011	ND	0.027	0.0005 J	ND	0.00055 J	0.00076	0.0094	0.002	ND	ND	0.062	ND	0.0097 J	0.0093	0.0032	NS
7-B1S (4-4.5)	L2335541-41	6/20/2023	4.0-4.5	5.8	0.48	ND	ND	ND	0.073 J	ND	0.68	ND	**ND (0.14)**	**ND (0.02)**	0.026 J	ND	ND	ND	ND	**ND (0.29)**	0.07 J	**ND (0.13)**	ND	ND	NS
7-B1S (5.5-6)	L2335541-42	6/20/2023	5.5-6.0	0.64	0.24	ND	ND	ND	0.62	ND	3.3	0.17	**ND (0.15)**	0.37	ND	ND	0.011 J	ND	ND	**ND (0.32)**	ND	**ND (0.15)**	0.061 J	0.058 J	NS
7-B1SS (5-5.5)	L2335541-44	6/20/2023	5.0-5.5	0.038	0.019	ND	0.00017 J	ND	0.0024	ND	0.023	0.0028	ND	0.0035	ND	ND	ND	ND	ND	0.0094 J	0.0017	0.003 J	ND	ND	NS
7-B2 (6.5-7)	L2126605-05	5/19/2021	6.5-7.0	0.00033 J	ND	ND	ND	ND	ND	ND	0.00084 J	ND	ND	ND	ND	ND	0.0016	0.0016	ND	0.1	ND	0.028	ND	ND	NS
7-B2 (14-14.5)	L2126605-06	5/19/2021	14.0-14.5	ND	0.085 J	ND	ND	ND	0.49	ND	5	0.18 J	**ND (0.49)**	ND	ND	ND	0.1 J	0.1 J	ND	1.9 J	ND	0.47 J	0.39 J	0.22 J	NS
7-B3 (10.5-11.5)	L2126605-09	5/19/2021	10.5-11.5	0.00099	0.0024	ND	ND	ND	0.00083 J	ND	12	0.0049	ND	ND	ND	ND	0.57	0.57	ND	0.0056 J	0.00013 J	ND	0.00032 J	0.00027 J	NS
7-B4 (6-6.5)	L2126281-07	5/18/2021	6.0-6.5	0.18	0.067	ND	ND	ND	ND	ND	0.39	0.036 J	**ND (0.15)**	ND	ND	ND	0.12	0.12	ND	**ND**	0.013 J	0.27 J	ND	ND	NS
10-B1 (8.5-9)	L2126605-02	5/19/2021	8.5-9.0	0.0018	0.00072	ND	0.00012 J	ND	ND	ND	0.00094	0.00038 J	ND	ND	ND	ND	ND	ND	ND	0.012	ND	ND	ND	ND	NS
10-B1 (22-22.5)	L2126605-03	5/19/2021	22.0-22.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
10-B2 (8.5-9)	L2126901-07	5/20/2021	8.5-9.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
10-B2 (34.5-35)	L2126901-08	5/20/2021	34.5-35.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
10-B3 (7-8)	L2126281-08	5/18/2021	7.0-8.0	0.00041 J	0.00017 J	ND	ND	ND	ND	ND	0.00057 J	ND	ND	ND	ND	ND	ND	ND	ND	0.084	0.00056 J	0.015	ND	ND	NS
10-B4 (5-5.5)	L2126281-11	5/18/2021	5.0-5.5	0.0008	0.0003 J	ND	ND	ND	ND	ND	0.00055 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0065	0.0012 J	NS
10-B4 (18-18.5)	L2126281-12	5/18/2021	18.0-18.5	ND	ND	ND	0.0012 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0076	ND	ND	1	ND	0.33	ND	ND	NS
10-B5 (6.5-7)	L2126281-05	5/18/2021	6.5-7.0	0.001	0.0004 J	ND	ND	ND	ND	ND	0.00049 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS
10-B6 (3.5-4.5)	L2125356-02	5/13/2021	3.5-4.5	200 E	5.5	ND	ND	ND	ND	ND	0.76	ND	**ND (0.8)**	ND	ND	ND	**ND**	**ND**	ND	ND	0.5 J	**ND**	0.18 J	ND	NS
10-B6W (1.5-2)	L2335541-45	6/20/2023	1.5-2.0	0.015	0.0011	ND	ND	ND	ND	ND	0.0021	ND	ND	ND	0.00049 J	ND	ND	ND	0.00088 J	0.06	ND	0.013	ND	0.00041 J	NS
10-B6W (4.5-5)	L2335541-46	6/20/2023	4.5-5.0	13	0.74	ND	ND	ND	ND	ND	0.31	ND	**ND (0.12)**	ND	ND	ND	ND	ND	0.21 J	**ND (0.26)**	0.024 J	**ND (0.12)**	ND	ND	NS
10-B6W (7.5-8)	L2335541-47	6/20/2023	7.5-8.0	0.066	0.014	ND	ND	ND	ND	ND	0.054	0.0052	ND	0.051	ND	ND	ND	ND	ND	0.011	0.00018 J	0.0031 J	ND	ND	NS
10-B6WW (4.5-5)	L2335541-49	6/20/2023	4.5-5.0	0.00063	0.0003 J	ND	ND	ND	ND	ND	0.0048	0.00029 J	ND	0.0017	ND	ND	ND	ND	ND	0.032	ND	0.0086	ND	ND	NS
10-B6WW (9.5-10)	L2335541-50	6/20/2023	9.5-10.0	ND	ND	ND	ND	ND	ND	ND	0.00022 J	0.00026 J	ND	ND	0.00016 J	ND	ND	ND	ND	0.023	ND	0.0088	ND	ND	NS
10-B6N (1.5-2)	L2335541-51	6/20/2023	1.5-2.0	0.77 E	0.048	ND	ND	ND	ND	ND	0.0093	ND	ND	ND	ND	ND	ND	ND	ND	0.01 J	0.0016	ND	ND	ND	NS
10-B6N (4.5-5)	L2335541-52	6/20/2023	4.5-5.0	17	0.95	ND	ND	ND	ND	ND	0.21	ND	**ND (0.13)**	ND	ND	ND	ND	ND	0.094 J	**ND (0.28)**	0.0083 J	**ND (0.13)**	ND	ND	NS
10-B6N (9.5-10)	L2335541-53	6/20/2023	9.5-10.0	0.004	0.0033	ND	ND	ND	ND	ND	0.023	0.017	ND	0.008	ND	ND	ND	ND	ND	0.19	ND	0.038	ND	ND	NS
10-B6E (1.5-2)	L2335541-54	6/20/2023	1.5-2.0	0.0018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00075 J	ND	ND	0.021	0.028	ND	0.011	0.00073 J	0.00062 J	NS
10-B6E (4.5-5)	L2335541-55	6/20/2023	4.5-5.0	7.3	0.36	ND	ND	ND	ND	ND	0.025 J	ND	**ND (0.14)**	**ND (0.021)**	ND	ND	ND	ND	ND	**ND (0.3)**	ND	**ND (10.14)**	ND	ND	NS
10-B6E (9.5-10)	L2335541-56	6/20/2023	9.5-10.0	ND	ND	ND	ND	ND	ND	ND	ND	0.0011 J	ND	ND	ND	ND	ND	ND	ND	0.086	ND	0.012	ND	ND	NS
10-B6EE (1.5-2)	L2335541-58	6/20/2023	1.5-2.0	0.0072	0.0039	ND	ND	ND	ND	ND	0.0021	ND	ND	ND	ND	ND	ND	ND	ND	0.057 J	0.00024 J	0.0049 J	ND	ND	NS
10-B6EE (5-5.5)	L2335541-59	6/20/2023	5.0-5.5	0.017	0.0077	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	0.013	0.005 J	0.025 J	ND	ND	NS
10-B6S (1.5-2)	L2335541-60	6/20/2023	1.5-2.0	0.041	0.0015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.009 J	0.00031 J	ND	ND	ND	NS
10-B6S (4.5-5)	L2335541-61	6/20/2023	4.5-5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0062 J	0.00016 J	ND	ND	ND	NS
10-B6S (9.5-10)	L2335541-62	6/20/2023	9.5-10.0	ND	ND	ND	ND	ND	ND	ND	ND	0.00019 J	ND	ND	ND	ND	ND	ND	ND	0.072	ND	0.021	ND	ND	NS

Legend:

mg/kg: milligrams per kilogram, ppm
NY-UNRES: New York Unrestricted Use Criteria
NY-COM: New York Commercial Criteria
NY-Protection of GW: New York Protection of Groundwater Criteria
J: Estimated Concentration
ND: Not Detected; but the laboratory MDL is above the standard
ND: Not Detected
NS: Not sampled
560 Concentration in excess of NY-UNRES
560 Concentration in excess of NY-COM
560 Concentration in excess of NY-Protection of GW
PCE: Tetrachloroethene
TCE: Trichloroethene

Table 1
Soil Analytical Results
NYSDEC Site No. C224258
SVOCs

Information				Semi-Volatiles (SW846 8270)												
Sample No.	**Laboratory ID.#**	**Date Collected**	**Sample Depth (ft.)**	**B(a)A**	**B(a)P**	**B(b)F**	**B(k)F**	**Chrysene**	**D(a,h)A**	**I(1,2,3-cd)P**	**Phenol**	**2-Methylphenol**	**3-Methylphenol/4-Methylphenol**	**1,4-Dioxane**	**Total SVOCs**
NY-UNRES (mg/kg)				1	1	1	0.8	1	0.33	0.5	0.33	0.33	0.33	0.1	-
NY-COM (mg/kg)				5.6	1	5.6	56	56	0.56	5.6	500	500	500	130	-
NY-Protection of GW (mg/kg)				1	22	1.7	1.7	1	1000	8.2	0.33	0.33	0.33	0.1	-
7-B1 (9-10)	L2126605-07	5/19/2021	9.0-10.0	2.8	2.9	3.3	1.3	2.7	0.46	2	ND	ND	ND	ND	15.65
7-B1 (27-27.5)	L2126605-08	5/19/2021	27.0-27.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (1.5-2)	L2335541-26	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (4.5-5)	L2335541-27	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (6.5-7)	L2335541-28	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (1-1.5)	L2335541-29	6/20/2023	1.0-1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (4-4.5)	L2335541-30	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (4.5-5)	L2335541-31	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (1.5-2)	L2335541-32	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (4-4.5)	L2335541-33	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (5.5-6)	L2335541-34	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1N (1.5-2)	L2335541-35	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1N (4-4.5)	L2335541-36	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (1.5-2)	L2335541-40	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (4-4.5)	L2335541-41	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (5.5-6)	L2335541-42	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1SS (5-5.5)	L2335541-44	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B2 (6.5-7)	L2126605-05	5/19/2021	6.5-7.0	0.18	0.17 J	0.18	0.077 J	0.17	ND	0.096 J	ND	ND	ND	ND	0.916
7-B2 (14-14.5)	L2126605-06	5/19/2021	14.0-14.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B3 (10.5-11.5)	L2126605-09	5/19/2021	10.5-11.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
7-B4 (6-6.5)	L2126281-07	5/18/2021	6.0-6.5	0.036 J	ND	0.052 J	ND	0.045 J	ND	0.03 J	ND	ND	ND	ND	0.163
10-B1 (8.5-9)	L2126605-02	5/19/2021	8.5-9.0	0.16	0.14 J	0.15	0.056 J	0.15	ND	0.07 J	ND	ND	ND	ND	0.726
10-B1 (22-22.5)	L2126605-03	5/19/2021	22.0-22.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B2 (8.5-9)	L2126901-07	5/20/2021	8.5-9.0	3.4	2.9	3.6	0.95	3.2	0.47	1.8	ND	ND	ND	ND	16.32
10-B2 (34.5-35)	L2126901-08	5/20/2021	34.5-35.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B3 (7-8)	L2126281-08	5/18/2021	7.0-8.0	0.63	0.57	0.64	0.26	0.58	0.072 J	0.35	ND	ND	ND	ND	3.102
10-B4 (5-5.5)	L2126281-11	5/18/2021	5.0-5.5	0.3 J	ND	0.16 J	ND	0.12 J	ND	0.088 J	ND	ND	ND	ND	0.498
10-B4 (18-18.5)	L2126281-12	5/18/2021	18.0-18.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B5 (6.5-7)	L2126281-05	5/18/2021	6.5-7.0	6.9	6	7.8	1.9	6.5	1.2	4.6	ND	ND	0.059 J	ND	34.959
10-B6 (3.5-4.5)	L2125356-02	5/13/2021	3.5-4.5	2.3	1.9	2.4	0.85	2.1	0.3	1.2	ND	ND	ND	ND	11.05
10-B6W (1.5-2)	L2335541-45	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (4.5-5)	L2335541-46	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (7.5-8)	L2335541-47	6/20/2023	7.5-8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6WW (4.5-5)	L2335541-49	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6WW (9.5-10)	L2335541-50	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (1.5-2)	L2335541-51	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (4.5-5)	L2335541-52	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (9.5-10)	L2335541-53	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (1.5-2)	L2335541-54	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (4.5-5)	L2335541-55	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (9.5-10)	L2335541-56	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6EE (1.5-2)	L2335541-58	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6EE (5-5.5)	L2335541-59	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (1.5-2)	L2335541-60	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (4.5-5)	L2335541-61	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (9.5-10)	L2335541-62	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

mg/kg:	milligrams per kilogram, ppm
NY-UNRES:	New York Unrestricted Use Criteria
NY-COM:	New York Commercial Criteria
NY-Protection of GW:	New York Protection of Groundwater Criteria
J:	Estimated Concentration
NS:	Not sampled
ND:	Not Detected
ND:	**Not Detected; but the laboratory MDL is above the standard**
560	Concentration in excess of NY-UNRES
560	Concentration in excess of NY-COM
560	Concentration in excess of NY-Protection of GW
B(a)P:	Benzo(a)pyrene
B(b)F:	Benzo(b)fluoranthene
B(k)F:	Benzo(k)fluoranthene
D(a,h)A:	Dibenzo(a,h)anthracene
I(1,2,3-cd)P:	Indeno(1,2,3-cd)pyrene
B(a)A:	Benzo(a)anthracene

Table 1
Soil Analytical Results
NYSDEC Site No. C224258
Metals

Information				Metals Analysis																	
Sample No.	**Laboratory ID.#**	**Date Collected**	**Sample Depth (ft.)**	**Arsenic**	**Arsenic, TCLP (mg/L)**	**Barium**	**Barium, TCLP (mg/L)**	**Beryllium**	**Cadmium**	**Cadmium, TCLP (mg/L)**	**Chromium, TCLP (mg/L)**	**Copper**	**Lead**	**Lead, TCLP (mg/L)**	**Mercury**	**Mercury, TCLP (mg/L)**	**Nickel**	**Selenium**	**Selenium, TCLP (mg/L)**	**Silver**	**Silver, TCLP (mg/L)**	**Zinc**
USEPA-Toxicity Characteristic (mg/L)				-	5.0	-	100	-	-	1	5	-	-	5	-	0.2	-	-	1	-	5	-
NY-UNRES (mg/kg)				13	-	350	-	7.2	2.5	-	-	50	63	-	0.18	-	30	2	-	2	-	109
NY-COM (mg/kg)				16	-	400	-	590	9	-	-	270	1,000	-	3	-	310	1,500	-	1,500	-	10,000
NY-Protection of GW (mg/kg)				16	-	820	-	47	8	-	-	1,720	450	-	0.73	-	130	4	-	8.3	-	2,480
7-B1 (9-10)	L2126605-07	5/19/2021	9.0-10.0	2.58	NS	52.3	NS	0.534	0.45 J	NS	NS	53.3	59.9	NS	0.984	NS	16.2	0.852 J	NS	ND (0.265)	NS	248
7-B1 (27-27.5)	L2126605-08	5/19/2021	27.0-27.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (1.5-2)	L2335541-26	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (4.5-5)	L2335541-27	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (6.5-7)	L2335541-28	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (1-1.5)	L2335541-29	6/20/2023	1.0-1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (4-4.5)	L2335541-30	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (4.5-5)	L2335541-31	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (1.5-2)	L2335541-32	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (4-4.5)	L2335541-33	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (5.5-6)	L2335541-34	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1N (1.5-2)	L2335541-35	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1N (4-4.5)	L2335541-36	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (1.5-2)	L2335541-40	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (4-4.5)	L2335541-41	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1SS (5-5.5)	L2335541-42	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1SS (5-5.5)	L2335541-44	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B2 (6.5-7)	L2126605-05	5/19/2021	6.5-7.0	3.48	NS	52.5	NS	0.27 J	0.375 J	NS	NS	25.8	30.1	NS	0.19	NS	9.86	1.16 J	NS	ND (0.294)	NS	60.3
7-B2 (14-14.5)	L2126605-06	5/19/2021	14.0-14.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B3 (10.5-11.5)	L2126605-09	5/19/2021	10.5-11.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B4 (6-6.5)	L2126281-07	5/18/2021	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B1 (8.5-9)	L2126605-02	5/19/2021	8.5-9.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B1 (22-22.5)	L2126605-03	5/19/2021	22.0-22.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B2 (8.5-9)	L2126901-07	5/20/2021	8.5-9.0	28.8	NS	255	NS	0.324 J	1.06	NS	NS	102	1,250	NS	1.62	NS	8.9	0.518 J	NS	ND (0.262)	NS	302
10-B2 (34.5-35)	L2126901-08	5/20/2021	34.5-35.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B3 (7-8)	L2126281-08	5/18/2021	7.0-8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B4 (5-5.5)	L2126281-11	5/18/2021	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B4 (18-18.5)	L2126281-12	5/18/2021	18.0-18.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B5 (6.5-7)	L2126281-05	5/18/2021	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6 (3.5-4.5)	L2125356-02	5/13/2021	3.5-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (1.5-2)	L2335541-45	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (4.5-5)	L2335541-46	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (7.5-8)	L2335541-47	6/20/2023	7.5-8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6WW (4.5-5)	L2335541-49	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6WW (9.5-10)	L2335541-50	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (1.5-2)	L2335541-51	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (4.5-5)	L2335541-52	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (9.5-10)	L2335541-53	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (1.5-2)	L2335541-54	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (4.5-5)	L2335541-55	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (9.5-10)	L2335541-56	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6EE (1.5-2)	L2335541-58	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6EE (5-5.5)	L2335541-59	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (1.5-2)	L2335541-60	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (4.5-5)	L2335541-61	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (9.5-10)	L2335541-62	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

mg/kg: milligrams per kilogram, ppm
mg/L: milligram per liter
NY-UNRES: New York Unrestricted Use Criteria
NY-COM: New York Commercial Criteria
NY-Protection of GW: New York Protection of Groundwater Criteria
J: Estimated Concentration
P: The RPD between the results for the two columns exceeds the method-specified criteria.
ND: Not Detected
NS: Not sampled

560 Concentration in excess of NY-UNRES
560 Concentration in excess of NY-COM
560 Concentration in excess of NY-Protection of GW

Table 1
Soil Analytical Results
NYSDEC Site No. C224258
Pesticides PCBs

Information				Pesticides			PCBs	
Sample No.	**Laboratory ID.#**	**Date Collected**	**Sample Depth (ft.)**	**4,4'-DDD**	**4,4'-DDE**	**4,4'-DDT**	**Aroclor 1254**	**PCBs total**
NY-UNRES (mg/kg)				**0.0033**	**0.0033**	**0.0033**	**0.1**	**0.1**
NY-COM (mg/kg)				**92**	**62**	**47**	**1**	**1**
NY-Protection of GW (mg/kg)				**14**	**17**	**136**	**3.2**	**3.2**
7-B1 (9-10)	L2126605-07	5/19/2021	9.0-10.0	0.00824 P	0.00669 P	ND	ND	ND
7-B1 (27-27.5)	L2126605-08	5/19/2021	27.0-27.5	NS	NS	NS	NS	NS
7-B1W (1.5-2)	L2335541-26	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
7-B1W (4.5-5)	L2335541-27	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
7-B1W (6.5-7)	L2335541-28	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS
7-B1WW (1-1.5)	L2335541-29	6/20/2023	1.0-1.5	NS	NS	NS	NS	NS
7-B1WW (4-4.5)	L2335541-30	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS
7-B1WW (4.5-5)	L2335541-31	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
7-B1E (1.5-2)	L2335541-32	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
7-B1E (4-4.5)	L2335541-33	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS
7-B1E (5.5-6)	L2335541-34	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS
7-B1N (1.5-2)	L2335541-35	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
7-B1N (4-4.5)	L2335541-36	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS
7-B1S (1.5-2)	L2335541-40	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
7-B1S (4-4.5)	L2335541-41	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS
7-B1S (5.5-6)	L2335541-42	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS
7-B1SS (5-5.5)	L2335541-44	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS
7-B2 (6.5-7)	L2126605-05	5/19/2021	6.5-7.0	ND	ND	0.00476 P	ND	ND
7-B2 (14-14.5)	L2126605-06	5/19/2021	14.0-14.5	NS	NS	NS	NS	NS
7-B3 (10.5-11.5)	L2126605-09	5/19/2021	10.5-11.5	NS	NS	NS	NS	NS
7-B4 (6-6.5)	L2126281-07	5/18/2021	6.0-6.5	NS	NS	NS	NS	NS
10-B1 (8.5-9)	L2126605-02	5/19/2021	8.5-9.0	NS	NS	NS	NS	NS
10-B1 (22-22.5)	L2126605-03	5/19/2021	22.0-22.5	NS	NS	NS	NS	NS
10-B2 (8.5-9)	L2126901-07	5/20/2021	8.5-9.0	ND	ND	ND	0.553	0.622
10-B2 (34.5-35)	L2126901-08	5/20/2021	34.5-35.0	NS	NS	NS	NS	NS
10-B3 (7-8)	L2126281-08	5/18/2021	7.0-8.0	NS	NS	NS	NS	NS
10-B4 (5-5.5)	L2126281-11	5/18/2021	5.0-5.5	NS	NS	NS	NS	NS
10-B4 (18-18.5)	L2126281-12	5/18/2021	18.0-18.5	NS	NS	NS	NS	NS
10-B5 (6.5-7)	L2126281-05	5/18/2021	6.5-7.0	NS	NS	NS	NS	NS
10-B6 (3.5-4.5)	L2125356-02	5/13/2021	3.5-4.5	NS	NS	NS	NS	NS
10-B6W (1.5-2)	L2335541-45	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
10-B6W (4.5-5)	L2335541-46	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
10-B6W (7.5-8)	L2335541-47	6/20/2023	7.5-8.0	NS	NS	NS	NS	NS
10-B6WW (4.5-5)	L2335541-49	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
10-B6WW (9.5-10)	L2335541-50	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS
10-B6N (1.5-2)	L2335541-51	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
10-B6N (4.5-5)	L2335541-52	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
10-B6N (9.5-10)	L2335541-53	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS
10-B6E (1.5-2)	L2335541-54	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
10-B6E (4.5-5)	L2335541-55	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
10-B6E (9.5-10)	L2335541-56	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS
10-B6EE (1.5-2)	L2335541-58	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
10-B6EE (5-5.5)	L2335541-59	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS
10-B6S (1.5-2)	L2335541-60	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS
10-B6S (4.5-5)	L2335541-61	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS
10-B6S (9.5-10)	L2335541-62	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS

Legend:

mg/kg:	milligrams per kilogram, ppm
NY-UNRES:	New York Unrestricted Use Criteria
NY-COM:	New York Commercial Criteria
NY-Protection of GW:	New York Protection of Groundwater Criteria
J:	Estimated Concentration
P:	The RPD between the results for the two columns exceeds the method-specified criteria.
ND:	Not Detected
NS:	Not sampled
560	Concentration in excess of NY-UNRES
560	Concentration in excess of NY-COM
560	Concentration in excess of NY-Protection of GW

Table 1
Soil Analytical Results
NYSDEC Site No. C224258
PFAS

Information				PFAs																					
Sample No.	**Laboratory ID.#**	**Date Collected**	**Sample Depth (ft.)**	**8:2FTS**	**6:2FTS**	**NEtFOSAA**	**NMeFOSAA**	**PFBS**	**PFBA**	**PFDS**	**PFDA**	**PFDoA**	**PFHpS**	**PFHpA**	**PFHxS**	**PFHxA**	**PFNA**	**POSA**	**PFOS**	**PFOA**	**PFPeA**	**PFTA**	**PFTrDA**	**PFUnA**	**PFOA/PFOS, Total**
NY-UNRES (ug/kg)				0.88	0.88	0.88	0.88	0.88	0.66	0.88	0.66	0.66	0.88	0.66	0.88	0.66	0.66	0.88	0.88	0.66	0.66	0.66	0.66	0.66	0.66
NY-COM (ug/kg)				440	440	440	440	440	504	440	504	504	440	504	440	504	504	440	440	504	504	504	504	504	504
NY-Protection of GW (ug/kg)				3.7	3.7	3.7	3.7	3.7	1.1	3.7	1.1	1.1	3.7	1.1	3.7	1.1	1.1	3.7	3.7	1.1	1.1	1.1	1.1	1.1	1.1
7-B1 (9-10)	L2126605-07	5/19/2021	9.0-10.0	ND (0.558)	ND (0.558)	1.82	ND (0.558)	ND (0.279)	ND (0.558)	ND (0.558)	ND (0.279)	ND (0.558)	ND (0.558)	ND (0.279)	ND (0.279)	0.062 J	ND (0.279)	ND (0.558)	1.24	ND (0.279)	ND (0.558)	ND (0.558)	ND (0.558)	ND (0.558)	1.24
7-B1 (27-27.5)	L2126605-08	5/19/2021	27.0-27.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (1.5-2)	L2335541-26	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (4.5-5)	L2335541-27	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1W (6.5-7)	L2335541-28	6/20/2023	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (1-1.5)	L2335541-29	6/20/2023	1.0-1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (4-4.5)	L2335541-30	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1WW (4.5-5)	L2335541-31	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (1.5-2)	L2335541-32	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (4-4.5)	L2335541-33	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1E (5.5-6)	L2335541-34	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1N (1.5-2)	L2335541-35	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1N (4-4.5)	L2335541-36	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (1.5-2)	L2335541-40	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (4-4.5)	L2335541-41	6/20/2023	4.0-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1S (5.5-6)	L2335541-42	6/20/2023	5.5-6.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B1SS (5-5.5)	L2335541-44	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B2 (6.5-7)	L2126605-05	5/19/2021	6.5-7.0	ND (0.614)	ND (0.614)	0.238 J	ND (0.614)	ND (0.307)	0.06 J	ND (0.614)	ND (0.307)	ND (0.614)	ND (0.614)	ND (0.307)	ND (0.307)	0.141 J	ND (0.307)	ND (0.614)	0.552	0.082 J	0.079 J	ND (0.614)	ND (0.614)	ND (0.614)	0.634 J
7-B2 (14-14.5)	L2126605-06	5/19/2021	14.0-14.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B3 (10.5-11.5)	L2126605-09	5/19/2021	10.5-11.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-B4 (6-6.5)	L2126281-07	5/18/2021	6.0-6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B1 (8.5-9)	L2126605-02	5/19/2021	8.5-9.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B1 (22-22.5)	L2126605-03	5/19/2021	22.0-22.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B2 (8.5-9)	L2126901-07	5/20/2021	8.5-9.0	ND (0.545)	ND (0.545)	ND (0.545)	ND (0.545)	ND (0.272)	ND (0.545)	ND (0.545)	ND (0.272)	ND (0.545)	ND (0.545)	ND (0.272)	ND (0.272)	ND (0.545)	ND (0.272)	ND (0.545)	ND (0.272)	ND (0.272)	ND (0.545)	ND (0.545)	ND (0.545)	ND (0.545)	ND (0.272)
10-B2 (34.5-35)	L2126901-08	5/20/2021	34.5-35.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B3 (7-8)	L2126281-08	5/18/2021	7.0-8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B4 (5-5.5)	L2126281-11	5/18/2021	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B4 (18-18.5)	L2126281-12	5/18/2021	18.0-18.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B5 (6.5-7)	L2126281-05	5/18/2021	6.5-7.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6 (3.5-4.5)	L2125356-02	5/13/2021	3.5-4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (1.5-2)	L2335541-45	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (4.5-5)	L2335541-46	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6W (7.5-8)	L2335541-47	6/20/2023	7.5-8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6WW (4.5-5)	L2335541-49	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6WW (9.5-10)	L2335541-50	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (1.5-2)	L2335541-51	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (4.5-5)	L2335541-52	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6N (9.5-10)	L2335541-53	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (1.5-2)	L2335541-54	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (4.5-5)	L2335541-55	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6E (9.5-10)	L2335541-56	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6EE (1.5-2)	L2335541-58	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6EE (5-5.5)	L2335541-59	6/20/2023	5.0-5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (1.5-2)	L2335541-60	6/20/2023	1.5-2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (4.5-5)	L2335541-61	6/20/2023	4.5-5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-B6S (9.5-10)	L2335541-62	6/20/2023	9.5-10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

ug/kg: micrograms per kilogram, ppb
NY-UNRES: New York Unrestricted Use Criteria
NY-COM: New York Commercial Criteria
NY-Protection of GW: New York Protection of Groundwater Criteria
J: Estimated Concentration
F: The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
NS: Not sampled
ND: Not Detected
560 Concentration in excess of NY-UNRES
560 Concentration in excess of NY-COM
560 Concentration in excess of NY-Protection of GW

8:2FTS: 1H,1H,2H,2H-Perfluorodecanesulfonic Acid
6:2FTS: 1H,1H,2H,2H-Perfluorooctanesulfonic Acid
NEtFOSAA: N-Ethyl Perfluorooctanesulfonamidoacetic Acid
NMeFOSAA: N-Methyl Perfluorooctanesulfonamidoacetic Acid
PFBS: Perfluorobutanesulfonic Acid
PFBA: Perfluorobutanoic Acid
PFDS: Perfluorodecanesulfonic Acid
PFDA: Perfluorodecanoic Acid
PFDoA: Perfluorododecanoic Acid
PFHpS: Perfluoroheptanesulfonic Acid
PFHpA: Perfluoroheptanoic Acid
PFHxS: Perfluorohexanesulfonic Acid
PFHxA: Perfluorohexanoic Acid
PFNA: Perfluorononanoic Acid
FOSA: Perfluorooctanesulfonamide
PFOS: Perfluorooctanesulfonic Acid
PFOA: Perfluorooctanoic Acid
PFPeA: Perfluoropentanoic Acid
PFTA: Perfluorotetradecanoic Acid
PFTrDA: Perfluorotridecanoic Acid
PFUnA: Perfluoroundecanoic Acid

TABLE 2
Remedial Investigation Groundwater Analytical Results – Temporary Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Volatiles																			
Sample No.	**Laboratory ID.#**	**Date Collected**	**Sample Depth (ft.)**	**PCE**	**TCE**	**cis-1,2-DCE**	**1,1-DCA**	**1,1-DCE**	**1,1,1-TCA**	**trans-1,2-DCE**	**Vinyl chloride**	**Benzene**	**Toluene**	**o-Xylene**	**p/m-Xylene**	**1,2-Dichloro benzene**	**1,2,4-Trimethyl benzene**	**1,3,5-Trimethyl benzene**	**Naphthalene**	**Methyl Tert Butyl Ether**	**Chloroform**	**Dichlorodi fluoromethane**	**p-Isopropyl toluene**	**TOTAL VOCS**
New York Ambient Water Quality Standards (ug/L)				5	5	5	5	5	5	5	2	1	5	5	5	3	5	5	-	10	7	5	5	-
New York Ambient Water Quality Guidance Values (ug/L)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-
7-TW1(25-30)	L2128067-04	5/24/2021	25-30	**1,400**	**77**	**48**	**18 J**	ND	**ND**	**ND**	**12**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	ND	ND	**ND**	**ND**	**ND**	1,555
7-TW2(20-30)	L2127174-02	5/21/2021	20-30	ND	ND	0.88 J	ND	ND	ND	ND	0.22 J	ND	ND	ND	ND	ND	ND	ND	1.4 J	ND	ND	ND	ND	3.4
7-TW3(5-15)	L2127174-03	5/21/2021	5-15	**47**	**15**	**7,100**	**ND**	**16**	**ND**	**25 J**	**1,700**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	10,603
7-TW4-25	L2218426-01	4/7/2022	20-25	**580**	**190**	**310**	ND	ND	ND	ND	**44**	**1.2 J**	3.4 J	ND	ND	**3.7 J**	ND	ND	**19**	ND	ND	ND	ND	1161.3
7-TW4-40	L2218426-02	4/7/2022	35-40	**950**	**450**	**420**	ND	1.1 J	ND	ND	**39**	**1.5 J**	4.4 J	ND	ND	**6.1 J**	4 J	ND	**15**	ND	ND	**ND**	ND	1891.1
7-TW4-55	L2218426-03	4/7/2022	50-55	**1,000**	**450**	**400**	**ND**	ND	**ND**	**ND**	**36**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**18 J**	ND	**ND**	**ND**	**ND**	1904
7-TW4-70	L2218426-04	4/7/2022	65-70	**1,300**	**560**	**550**	**ND**	ND	**ND**	**ND**	**50**	**2.1 J**	**ND**	**ND**	**ND**	**7.2 J**	**ND**	**ND**	**16 J**	ND	**ND**	**ND**	**ND**	2485.3
7-TW5-25	L2218426-05	4/8/2022	20-25	3.7	1.2	**6.1**	2.1 J	ND	ND	ND	1.5	0.45 J	0.83 J	ND	ND	ND	ND	ND	1 J	2 J	ND	ND	ND	28.88
7-TW5-40	L2218426-06	4/8/2022	35-40	4.3	1.5	**8.7**	3.1	ND	ND	ND	1.2	0.46 J	1 J	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	38.76
7-TW5-55	L2218426-07	4/8/2022	50-55	3.9	2.4	**14**	**5.9**	0.18 J	ND	ND	0.75 J	0.7	0.75 J	ND	ND	ND	ND	ND	ND	6.9	ND	ND	ND	63.88
7-TW5-70	L2218426-08	4/8/2022	65-70	**12**	**5.6**	**28**	4.4	0.22 J	ND	ND	**2.7**	0.59	ND	ND	ND	ND	ND	ND	0.82 J	4.5	ND	ND	ND	101.63
7-TW6-25	L2218426-09	4/7/2022	20-25	**5.8**	1.5	**32**	**9.3**	0.84 J	ND	0.87 J	**3.5**	**1.2**	2.9	0.86 J	1.2 J	ND	1 J	ND	**130**	2.7	ND	ND	ND	206.67
7-TW6-40	L2218426-10	4/7/2022	35-40	**5.1**	1.1	**30**	4	0.47 J	ND	0.88 J	**3.1**	0.93	1.7 J	0.7 J	0.95 J	ND	0.95 J	ND	**120**	1.6 J	ND	ND	ND	177.48
7-TW6-55	L2218426-11	4/7/2022	50-55	**5.6**	1.6	**33**	2.6	0.31 J	ND	0.87 J	**3.5**	**1.7**	2.3 J	1 J	1.3 J	ND	1.3 J	0.82 J	**200**	1.2 J	ND	ND	ND	272.72
7-TW6-70	L2218426-12	4/7/2022	65-70	**26**	**6.9**	**69**	1.2 J	ND	ND	ND	**3.6**	**1.4**	**6.5**	1.1 J	1.6 J	ND	1.4 J	0.7 J	**82**	0.81 J	1.6 J	ND	1.1 J	379.41
7-TW7-25	L2218426-13	4/8/2022	20-25	**46**	**9.3**	**51**	4.8	0.49 J	ND	ND	**2.6**	0.38 J	1 J	ND	ND	ND	ND	ND	5.2	1.7 J	1.2 J	ND	ND	139.07
7-TW7-40	L2218426-14	4/8/2022	35-40	**46**	**11**	**59**	**5.4**	0.69	ND	ND	**3.1**	0.34 J	1.2 J	ND	ND	ND	ND	ND	1.6 J	1.6 J	1.5 J	ND	ND	151.13
7-TW7-55	L2218426-15	4/8/2022	50-55	**47**	**12**	**55**	**5.9**	0.68	ND	ND	**3**	0.34	0.93 J	ND	ND	ND	ND	ND	2 J	1.7 J	1.2 J	ND	ND	148.35
7-TW7-70	L2218426-16	4/8/2022	65-70	**44**	**15**	**56**	4.5	0.55	ND	0.7 J	**3.3**	0.29 J	ND	ND	ND	ND	ND	ND	2.6	1.6 J	0.92 J	ND	ND	166.86
10-TW1(5-15)	L2128067-01	5/24/2021	5-15	0.28 J	ND	ND	ND	ND	ND	ND	0.14 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.42
10-TW1(20-30)	L2128067-05	5/25/2021	20-30	**6.6**	0.28 J	ND	ND	ND	ND	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	13.28
10-TW2(65-70)	L2128067-02	5/24/2021	65-70	**260**	**86**	**6.2**	ND	1	2.1 J	ND	0.86 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**21**	ND	377.16
10-TW2(105-110)	L2128067-03	5/24/2021	105-110	**230**	**100**	2.9	ND	1.1	2.1 J	ND	0.2 J	0.17 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	**9.8**	ND	230

Legend:

ug/L: Micrograms per Liter
NY-TOGS: New York TOGS Class GA GW Standards (NYSDEC 6/2004)
J: Estimated Concentration
ND: Not Detected
ND: MDL exceeds standard
560 Concentration in excess of most stringent criteria
PCE: Tetrachloroethene
TCE: Trichloroethene
cis-1,2-DCE: cis-1,2-Dichloroethene
1,1-DCA: 1,1-Dichloroethane
1,1-DCE: 1,1-Dichloroethene
1,1,1-TCA: 1,1,1-Trichloroethane
trans-1,2-DCE: trans-1,2-Dichloroethene

TABLE 2
Remedial Investigation Groundwater Analytical Results – Temporary Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Semi-Volatiles															
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Indeno (1,2,3-cd) pyrene	Bis(2-ethylhexyl) phthalate	Fluoranthene	Fluorene	Phenanthrene	Pyrene	2,4-Dinitrophenol	TOTAL SVOCS
New York Ambient Water Quality Standards (ug/L)				-	-	-	ND	-	-	-	-	5	-	-	-	-	-	-
New York Ambient Water Quality Guidance Values (ug/L)				20	50	0.002	-	0.002	0.002	0.002	0.002	-	50	50	50	50	10	-
7-TW1(25-30)	L2128067-04	5/24/2021	25-30	0.02 J	0.02 J	0.02 J	ND	0.02 J	ND	0.02 J	ND	ND	0.04 J	ND	0.06 J	0.04 J	ND	0.06
7-TW2(20-30)	L2127174-02	5/21/2021	20-30	0.33	0.36	0.17	0.12	0.12	0.05 J	0.14	0.07 J	1.9	0.46	0.38	1.1	0.49	ND	2.45
7-TW3(5-15)	L2127174-03	5/21/2021	5-15	0.21	0.18	0.31	0.26	0.38	0.1	0.31	0.21	4.8	0.67	0.14	0.6	0.61	ND	6.37
7-TW4-25	L2218426-01	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-40	L2218426-02	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-55	L2218426-03	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-70	L2218426-04	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-25	L2218426-05	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-40	L2218426-06	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-55	L2218426-07	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-70	L2218426-08	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-25	L2218426-09	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-40	L2218426-10	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-55	L2218426-11	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-70	L2218426-12	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-25	L2218426-13	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-40	L2218426-14	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-55	L2218426-15	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-70	L2218426-16	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW1(5-15)	L2128067-01	5/24/2021	5-15	0.6	0.14	0.28	0.22	0.27	0.08 J	0.28	0.16	2.6	0.47	0.12	0.45	0.46	ND	3.81
10-TW1(20-30)	L2128067-05	5/25/2021	20-30	1.8	0.08 J	0.04 J	0.02 J	0.03 J	0.01 J	0.03 J	0.02 J	2.7	0.08 J	0.28	0.12	0.08 J	ND	2.67
10-TW2(65-70)	L2128067-02	5/24/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW2(105-110)	L2128067-03	5/24/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

ug/L: Micrograms per Liter
J: Estimated Concentration
ND: Not Detected
NS: Not Sampled
ND: MDL exceeds standard
560 Concentration in excess of most stringent criteria
560 Concentration in excess of the guidance value

TABLE 2
Remedial Investigation Groundwater Analytical Results – Temporary Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Metals Analysis																	
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Selenium	Silver	Sodium	Thallium	Zinc
New York Ambient Water Quality Standards (ug/L)				3	25	1,000	-	5	50	-	200	300	25	-	300	0.7	100	-	-	20,000	-	-
New York Ambient Water Quality Guidance Values (ug/L)				-	-	-	3	-	-	-	-	-	-	35,000	-	-	-	10	50	-	0.85	2,000
7-TW1(25-30)	L2128067-04	5/24/2021	25-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW2(20-30)	L2127174-02	5/21/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW3(5-15)	L2127174-03	5/21/2021	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-25	L2218426-01	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-40	L2218426-02	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-55	L2218426-03	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-70	L2218426-04	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-25	L2218426-05	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-40	L2218426-06	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-55	L2218426-07	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-70	L2218426-08	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-25	L2218426-09	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-40	L2218426-10	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-55	L2218426-11	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-70	L2218426-12	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-25	L2218426-13	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-40	L2218426-14	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-55	L2218426-15	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-70	L2218426-16	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW1(5-15)	L2128067-01	5/24/2021	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW1(20-30)	L2128067-05	5/25/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW2(65-70)	L2128067-02	5/24/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW2(105-110)	L2128067-03	5/24/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

ug/L: Micrograms per Liter
J: Estimated Concentration
ND: Not Detected
NS: Not Sampled

560	Concentration in excess of most stringent criteria
560	Concentration in excess of the guidance value

TABLE 2
Remedial Investigation Groundwater Analytical Results – Temporary Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Metals Analysis (dissolved)															
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	Antimony (Dissolved)	Arsenic (dissolved)	Barium (dissolved)	Beryllium (dissolved)	Cadmium (dissolved)	Chromium (dissolved)	Copper	Iron (dissolved)	Lead (dissolved)	Magnesium (dissolved)	Manganese (dissolved)	Mercury (dissolved)	Nickel (dissolved)	Sodium (dissolved)	Thallium (dissolved)	Vanadium (dissolved)	Zinc (dissolved)
New York Ambient Water Quality Standards (ug/L)				3	25	1,000	-	5	50	200	300	25	-	300	0.7	100	20,000	-	-	-
New York Ambient Water Quality Guidance Values (ug/L)				-	-	-	3	-	-	-	-	-	35,000	-	-	-	-	0.5	-	2,000
7-TW1(25-30)	L2128067-04	5/24/2021	25-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW2(20-30)	L2127174-02	5/21/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW3(5-15)	L2127174-03	5/21/2021	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-25	L2218426-01	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-40	L2218426-02	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-55	L2218426-03	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-70	L2218426-04	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-25	L2218426-05	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-40	L2218426-06	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-55	L2218426-07	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-70	L2218426-08	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-25	L2218426-09	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-40	L2218426-10	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-55	L2218426-11	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-70	L2218426-12	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-25	L2218426-13	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-40	L2218426-14	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-55	L2218426-15	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-70	L2218426-16	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW1(5-15)	L2128067-01	5/24/2021	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW1(20-30)	L2128067-05	5/25/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW2(65-70)	L2128067-02	5/24/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW2(105-110)	L2128067-03	5/24/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

ug/L: Micrograms per Liter
J: Estimated Concentration
ND: Not Detected
NS: Not Sampled
560 Concentration in excess of most stringent criteria
560 Concentration in excess of the guidance value

TABLE 2
Remedial Investigation Groundwater Analytical Results – Temporary Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				Pesticides		PCBs	Emerging Contaminants
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	4,4'-DDE	Alpha-BHC	Total PCBs	1,4-Dioxane
New York Ambient Water Quality Standards (ug/L)				0.2	0.01	0.09	-
New York Ambient Water Quality Guidance Values (ug/L)				-	-	-	-
7-TW1(25-30)	L2128067-04	5/24/2021	25-30	NS	NS	NS	NS
7-TW2(20-30)	L2127174-02	5/21/2021	20-30	NS	NS	NS	NS
7-TW3(5-15)	L2127174-03	5/21/2021	5-15	NS	NS	NS	NS
7-TW4-25	L2218426-01	4/7/2022	20-25	NS	NS	NS	ND
7-TW4-40	L2218426-02	4/7/2022	35-40	NS	NS	NS	ND
7-TW4-55	L2218426-03	4/7/2022	50-55	NS	NS	NS	ND
7-TW4-70	L2218426-04	4/7/2022	65-70	NS	NS	NS	ND
7-TW5-25	L2218426-05	4/8/2022	20-25	NS	NS	NS	ND
7-TW5-40	L2218426-06	4/8/2022	35-40	NS	NS	NS	ND
7-TW5-55	L2218426-07	4/8/2022	50-55	NS	NS	NS	ND
7-TW5-70	L2218426-08	4/8/2022	65-70	NS	NS	NS	ND
7-TW6-25	L2218426-09	4/7/2022	20-25	NS	NS	NS	ND
7-TW6-40	L2218426-10	4/7/2022	35-40	NS	NS	NS	ND
7-TW6-55	L2218426-11	4/7/2022	50-55	NS	NS	NS	ND
7-TW6-70	L2218426-12	4/7/2022	65-70	NS	NS	NS	ND
7-TW7-25	L2218426-13	4/8/2022	20-25	NS	NS	NS	ND
7-TW7-40	L2218426-14	4/8/2022	35-40	NS	NS	NS	ND
7-TW7-55	L2218426-15	4/8/2022	50-55	NS	NS	NS	ND
7-TW7-70	L2218426-16	4/8/2022	65-70	NS	NS	NS	ND
10-TW1(5-15)	L2128067-01	5/24/2021	5-15	NS	NS	NS	NS
10-TW1(20-30)	L2128067-05	5/25/2021	20-30	NS	NS	NS	NS
10-TW2(65-70)	L2128067-02	5/24/2021	65-70	NS	NS	NS	NS
10-TW2(105-110)	L2128067-03	5/24/2021	105-110	NS	NS	NS	NS

Legend:

ug/L: Micrograms per Liter
J: Estimated Concentration
ND: Not Detected
560 Concentration in excess of most stringent criteria

TABLE 2
Remedial Investigation Groundwater Analytical Results – Temporary Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information				PFAS																				
Sample No.	Laboratory ID.#	Date Collected	Sample Depth (ft.)	8:2FTS	6:2FTS	NEtFOSAA	NMeFOSAA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNA	POSA	PFOS	PFOA	PFPeA	PFTA	PFTrDA	PFUnA	Total
New York Ambient Water Quality Standards (ng/L)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New York Ambient Water Quality Guidance Values (ng/L)				10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
7-TW1(25-30)	L2128067-04	5/24/2021	25-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW2(20-30)	L2127174-02	5/21/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW3(5-15)	L2127174-03	5/21/2021	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-25	L2218426-01	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-40	L2218426-02	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-55	L2218426-03	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW4-70	L2218426-04	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-25	L2218426-05	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-40	L2218426-06	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-55	L2218426-07	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW5-70	L2218426-08	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-25	L2218426-09	4/7/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-40	L2218426-10	4/7/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-55	L2218426-11	4/7/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW6-70	L2218426-12	4/7/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-25	L2218426-13	4/8/2022	20-25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-40	L2218426-14	4/8/2022	35-40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-55	L2218426-15	4/8/2022	50-55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7-TW7-70	L2218426-16	4/8/2022	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW1(5-15)	L2128067-01	5/24/2021	5-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW1(20-30)	L2128067-05	5/25/2021	20-30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW2(65-70)	L2128067-02	5/24/2021	65-70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10-TW2(105-110)	L2128067-03	5/24/2021	105-110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

ng/L: Nanograms per Liter, ppt
J: Estimated Concentration
f: The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
ND (1.84): Not Detected above reporting limit (RL)
NS: Not Sampled
560: Concentration in excess of most stringent criteria
560: Concentration in excess of the guidance value
8:2FTS: 1H,1H,2H,2H-Perfluorodecanesulfonic Acid
6:2FTS: 1H,1H,2H,2H-Perfluorooctanesulfonic Acid
NEtFOSAA: N-Ethyl Perfluorooctanesulfonamidoacetic Acid
NMeFOSAA: N-Methyl Perfluorooctanesulfonamidoacetic Acid
PFBS: Perfluorobutanesulfonic Acid
PFBA: Perfluorobutanoic Acid
PFDS: Perfluorodecanesulfonic Acid
PFDA: Perfluorodecanoic Acid
PFDoA: Perfluorododecanoic Acid
PFHpS: Perfluoroheptanesulfonic Acid
PFHpA: Perfluoroheptanoic Acid
PFHxS: Perfluorohexanesulfonic Acid
PFHxA: Perfluorohexanoic Acid
PFNA: Perfluorononanoic Acid
FOSA: Perfluorooctanesulfonamide
PFOS: Perfluorooctanesulfonic Acid
PFOA: Perfluorooctanoic Acid
PFPeA: Perfluoropentanoic Acid
PFTA: Perfluorotetradecanoic Acid
PFTrDA: Perfluorotridecanoic Acid
PFUnA: Perfluoroundecanoic Acid

TABLE 3
Remedial Investigation Groundwater Analytical Results – Permanent Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information							Volatiles												
Sample No.	Laboratory ID.#	Date Collected	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	PCE	TCE	cis-1,2-DCE	1,1-DCA	1,1-DCE	1,1,1-TCA	trans-1,2-DCE	Vinyl chloride	Acetone	Benzene	Naphthalene	Chloroform	p-Isopropyl toluene	TOTAL VOCS
NEW YORK STATE AMBIENT WATER QUALITY STANDARDS VALUES							5 ug/L	5 ug/L	5 ug/L	5 ug/L	5 ug/L	5 ug/L	5 ug/L	2 ug/L	20 ug/L	1 ug/L	-	7 ug/L	5 ug/L	-
NEW YORK STATE AMBIENT WATER QUALITY GUIDANCE VALUES							-	-	-	-	-	-	-	-	-	-	10 ug/L	-	-	-
MW-1	L2130572-01	6/7/2021	13.29	8.87	0.00	4.42	ND	ND	ND	ND	ND	ND	ND	ND	4.1 J	ND	31	ND	ND	35.1
MW-2	L2130572-02	6/7/2021	13.37	4.39	0.00	8.98	9,200	1,100	660	ND	ND	ND	ND	52	ND	ND	110 J	ND	ND	11,122
MW-3	L2130572-03	6/7/2021	13.50	8.41	0.00	5.09	0.36 J	ND	ND	ND	ND	ND	ND	0.19 J	20	ND	ND	1.2 J	ND	27.47
MW-4	L2130572-04	6/7/2021	13.00	8.70	0.00	4.30	5.8	ND	ND	ND	ND	ND	ND	ND	3.6 J	ND	0.7 J	ND	1.2 J	11.3
MW-5	L2130572-05	6/7/2021	12.54	7.77	0.00	4.77	0.54	ND	ND	ND	ND	ND	ND	ND	9.5	0.21 J	ND	2 J	ND	14.15
MW-6	L2130572-06	6/7/2021	11.95	7.66	0.00	4.29	ND	ND	ND	ND	ND	ND	ND	ND	1.8 J	ND	ND	ND	ND	1.8

Legend:

ug/L: Micrograms per Liter
J: Estimated Concentration
ND: Not Detected
560 Concentration in excess of most stringent criteria
560 Concentration in excess of the guidance value
PCE: Tetrachloroethene
TCE: Trichloroethene
cis-1,2-DCE: cis-1,2-Dichloroethene
1,1-DCA: 1,1-Dichloroethane
1,1-DCE: 1,1-Dichloroethene
1,1,1-TCA: 1,1,1-Trichloroethane
trans-1,2-DCE: trans-1,2-Dichloroethene

TABLE 3
Remedial Investigation Groundwater Analytical Results – Permanent Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information							Semi-Volatiles													
Sample No.	Laboratory ID.#	Date Collected	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(ghi) perylene	Benzo(k) fluoranthene	Chrysene	Indeno (1,2,3-cd) pyrene	Phenanthrene	Naphthalene	2-Methyl phenol	Bis(2-ethylhexyl) phthalate	Dibenzofuran	Phenol	TOTAL SVOCS
NEW YORK STATE AMBIENT WATER QUALITY STANDARDS VALUES							-	ND	-	-	-	-	-	-	-	1 ug/L	5 ug/L	0.0000007	1 ug/L	-
NEW YORK STATE AMBIENT WATER QUALITY GUIDANCE VALUES							0.002 ug/L	-	0.002 ug/L	-	0.002 ug/L	0.002 ug/L	0.002 ug/L	50 ug/L	10 ug/L	-	-	-	-	-
MW-1	L2130572-01	6/7/2021	13.29	8.87	0.00	4.42	17	14	17	9.4	4.9	15	10	44	20	5.3	ND	6.8	2.5 J	165.9
MW-2	L2130572-02	6/7/2021	13.37	4.39	0.00	8.98	1	1	1.2	0.79	0.43	0.93	0.82	0.77	0.41	ND	1.6 J	**ND**	ND	8.95
MW-3	L2130572-03	6/7/2021	13.50	8.41	0.00	5.09	0.15	0.15	0.18	0.15	0.07 J	0.16	0.14	0.32	0.32	ND	ND	**ND**	ND	1.64
MW-4	L2130572-04	6/7/2021	13.00	8.70	0.00	4.30	0.29	0.29	0.23	0.13	0.08 J	0.29	0.13	4.6	0.28	ND	ND	0.51 J	0.68 J	7.51
MW-5	L2130572-05	6/7/2021	12.54	7.77	0.00	4.77	0.18	0.18	0.2	0.13	0.05 J	0.16	0.13	0.73	0.61	ND	ND	**ND**	ND	7.32
MW-6	L2130572-06	6/7/2021	11.95	7.66	0.00	4.29	0.03 J	0.03 J	0.03 J	0.02 J	0.01 J	0.02 J	0.02 J	0.04 J	ND	ND	ND	**ND**	ND	0.20

Legend:

ug/L: Micrograms per Liter

J: Estimated Concentration

ND: Not Detected

560 Concentration in excess of most stringent criteria

560 Concentration in excess of the guidance value

TABLE 3
Remedial Investigation Groundwater Analytical Results – Permanent Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information							Metals Analysis													
Sample No.	Laboratory ID.#	Date Collected	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	Antimony	Arsenic	Barium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Sodium	Thallium	Vanadium	Zinc
NEW YORK STATE AMBIENT WATER QUALITY STANDARDS VALUES							3 ug/L	25 ug/L	1,000 ug/L	50 ug/L	200 ug/L	300 ug/L	25 ug/L	300 ug/L	0.7 ug/L	100 ug/L	20,000 ug/L	-	-	-
NEW YORK STATE AMBIENT WATER QUALITY GUIDANCE VALUES							-	-	-	-	-	-	-	-	-	-	-	0.5 ug/L	-	2,000 ug/L
MW-1	L2130572-01	6/7/2021	13.29	8.87	0.00	4.42	3.21 J	38.18	611.4	26.76	150	18,200	430.1	498.9	2.37	8.14	78,500	0.28 J	5.68	548.6
MW-2	L2130572-02	6/7/2021	13.37	4.39	0.00	8.98	2.64 J	4.01	101.8	17.45	117.5	8,930	151.3	201.9	0.62	5.01	18,800	ND	4.54 J	149.2
MW-3	L2130572-03	6/7/2021	13.50	8.41	0.00	5.09	3.34 J	11.48	263.9	77.91	110.4	23,200	457.2	343.8	1.42	34.59	376,000	0.14 J	74.58	293.3
MW-4	L2130572-04	6/7/2021	13.00	8.70	0.00	4.30	7.27	4.63	166.1	1.27	7.68	7,500	85.25	1,276	0.29	0.97 J	144,000	ND	ND	44.25
MW-5	L2130572-05	6/7/2021	12.54	7.77	0.00	4.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	L2130572-06	6/7/2021	11.95	7.66	0.00	4.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Information							Metals Analysis (dissolved)													
Sample No.	Laboratory ID.#	Date Collected	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	Antimony (dissolved)	Arsenic (dissolved)	Barium (dissolved)	Chromium (dissolved)	Copper (dissolved)	Iron (dissolved)	Lead (dissolved)	Manganese (dissolved)	Mercury (dissolved)	Nickel (dissolved)	Sodium (dissolved)	Thallium (dissolved)	Vanadium (dissolved)	Zinc (dissolved)
NEW YORK STATE AMBIENT WATER QUALITY STANDARDS VALUES							3 ug/L	25 ug/L	1,000 ug/L	50 ug/L	200 ug/L	300 ug/L	25 ug/L	300 ug/L	0.7 ug/L	100 ug/L	20,000 ug/L	-	-	-
NEW YORK STATE AMBIENT WATER QUALITY GUIDANCE VALUES							-	-	-	-	-	-	-	-	-	-	-	0.5 ug/L	-	2,000 ug/L
MW-1	L2130572-01	6/7/2021	13.29	8.87	0.00	4.42	2.59 J	7.16	323	0.65 J	ND	207	ND	432.7	ND	3.29	81,000	ND	ND	ND
MW-2	L2130572-02	6/7/2021	13.37	4.39	0.00	8.98	2.31 J	1.11	15.94	ND	0.46 J	37.5	ND	101.1	ND	1.16 J	17,800	ND	ND	ND
MW-3	L2130572-03	6/7/2021	13.50	8.41	0.00	5.09	4.01	7.33	64.62	8.22	6.29	1,500	46.86	59.44	ND	8.91	338,000	ND	25.1	19.66
MW-4	L2130572-04	6/7/2021	13.00	8.70	0.00	4.30	4.65	1.17	121.5	ND	ND	39.3 J	ND	1,241	ND	0.64 J	138,000	ND	ND	ND
MW-5	L2130572-05	6/7/2021	12.54	7.77	0.00	4.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	L2130572-06	6/7/2021	11.95	7.66	0.00	4.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

ug/L:	Micrograms per Liter
J:	Estimated Concentration
ND:	Not Detected
560	Concentration in excess of most stringent criteria
560	Concentration in excess of the guidance value

TABLE 3
Remedial Investigation Groundwater Analytical Results – Permanent Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information							Pesticides			PCBs			Emerging Contaminants
Sample No.	Laboratory ID.#	Date Collected	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	4,4'-DDE	Alpha-BHC	Heptachlor epoxide	Aroclor 1254	Aroclor 1260	Total PCBs	1,4-Dioxane
NEW YORK STATE AMBIENT WATER QUALITY STANDARDS VALUES							0.2 ug/L	0.01 ug/L	0.03 ug/L	0.09 ug/L	0.09 ug/L	0.09 ug/L	
NEW YORK STATE AMBIENT WATER QUALITY GUIDANCE VALUES							-	-	-	-	-	-	
MW-1	L2130572-01	6/7/2021	13.29	8.87	0.00	4.42	**ND**	**ND**	**ND**	ND	ND	ND	1.18
MW-2	L2130572-02	6/7/2021	13.37	4.39	0.00	8.98	0.006 J	**ND**	**ND**	ND	ND	ND	ND
MW-3	L2130572-03	6/7/2021	13.50	8.41	0.00	5.09	ND	ND	ND	**0.102**	ND	**0.102**	**2.74**
MW-4	L2130572-04	6/7/2021	13.00	8.70	0.00	4.30	**ND**	**ND**	**ND**	ND	0.071 J	0.071 J	ND
MW-5	L2130572-05	6/7/2021	12.54	7.77	0.00	4.77	NS	NS	NS	NS	NS	NS	NS
MW-6	L2130572-06	6/7/2021	11.95	7.66	0.00	4.29	NS	NS	NS	NS	NS	NS	NS

Legend:

ug/L: Micrograms per Liter
J: Estimated Concentration
ND: Not Detected
560 Concentration in excess of most stringent criteria
560 Concentration in excess of the guidance value

TABLE 3
Remedial Investigation Groundwater Analytical Results – Permanent Wells
NYSDEC BCP Site C224258 - Avant Gardner
111 Gardner Avenue 140 Stewart Avenue
Brooklyn, New York

Information							PFAs																		
Sample No.	Laboratory ID.#	Date Collected	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Product Thickness (ft)	Corrected Groundwater Elevation (ft)	8:2FTS	6:2FTS	NEtFOSAA	NMeFOSAA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNA	POSA	PFOS	PFOA	PFPeA	PFTA	PFTrDA	PFUnA	Total
NEW YORK STATE AMBIENT WATER QUALITY STANDARDS VALUES							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW YORK STATE AMBIENT WATER QUALITY GUIDANCE VALUES							10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)	10 (ng/L)
MW-1	L2130572-01	6/7/2021	13.29	8.87	0.00	4.42	ND (1.77)	18.9	**2.4**	ND (1.77)	**4.34**	13.1	ND (1.77)	ND (1.77)	ND (1.77)	**1.4 J**	10	35.2	19.6	3.9	ND (1.77)	67.9	41.1	29.1	ND (1.77)	ND (1.77)	ND (1.77)	245.54
MW-2	L2130572-02	6/7/2021	13.37	4.39	0.00	8.98	ND (1.79)	ND (1.79)	71.3	ND (1.79)	**3.08**	9.9	**3.82**	**3.47**	ND (1.79)	**2.12 F**	**7.05**	12.7	16.1	3.97	**7.34 F**	284	16	21.7	ND (1.79)	ND (1.79)	**0.36 J**	453.09
MW-3	L2130572-03	6/7/2021	13.50	8.41	0.00	5.09	ND (10)	ND (10)	ND (10)	ND (10)	**7.7 J**	95.6	ND (10)	**2.14 J**	ND (10)	ND (10)	84.9	18.8	96.3	**6.84 J**	ND (10)	150	136	141	ND (10)	ND (10)	ND (10)	722.6
MW-4	L2130572-04	6/7/2021	13.00	8.70	0.00	4.30	ND (1.92)	ND (1.92)	**0.917 J**	ND (1.92)	13.8	55.9	ND (1.92)	**0.813 J**	ND (1.92)	**0.913 J**	129	16.7	105	22.5	ND (1.92)	56.1	86.3	160	ND (1.92)	ND (1.92)	ND (1.92)	645.3
MW-5	L2130572-05	6/7/2021	12.54	7.77	0.00	4.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	L2130572-06	6/7/2021	11.95	7.66	0.00	4.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Legend:

ng/L: Nanograms per Liter, ppt
J: Estimated Concentration
f: The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
ND (1.84): Not Detected above reporting limit (RL)
2.4 Concentration exceeds RL
560 Concentration in excess of most stringent criteria
560 Concentration in excess of the guidance value
8:2FTS: 1H,1H,2H,2H-Perfluorodecanesulfonic Acid
6:2FTS: 1H,1H,2H,2H-Perfluorooctanesulfonic Acid
NEtFOSAA: N-Ethyl Perfluorooctanesulfonamidoacetic Acid
NMeFOSAA: N-Methyl Perfluorooctanesulfonamidoacetic Acid
PFBS: Perfluorobutanesulfonic Acid
PFBA: Perfluorobutanoic Acid
PFDS: Perfluorodecanesulfonic Acid
PFDA: Perfluorodecanoic Acid
PFDoA: Perfluorododecanoic Acid
PFHpS: Perfluoroheptanesulfonic Acid
PFHpA: Perfluoroheptanoic Acid
PFHxS: Perfluorohexanesulfonic Acid
PFHxA: Perfluorohexanoic Acid
PFNA: Perfluorononanoic Acid
FOSA: Perfluorooctanesulfonamide
PFOS: Perfluorooctanesulfonic Acid
PFOA: Perfluorooctanoic Acid
PFPeA: Perfluoropentanoic Acid
PFTA: Perfluorotetradecanoic Acid
PFTrDA: Perfluorotridecanoic Acid
PFUnA: Perfluoroundecanoic Acid

APPENDIX A: LABORATORY REPORTS

PSG

ANALYTICAL REPORT

Lab Number:	L2125356
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER
Project Number:	17244793
Report Date:	06/11/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2125356
Report Date: 06/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2125356-01	8-B1 (2-3)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/13/21 08:30	05/14/21
L2125356-02	10-B6 (3.5-4.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/13/21 10:00	05/14/21
L2125356-03	DUP	SOIL	140 STEWART AVE., BROOKLYN, NY	05/13/21 08:30	05/14/21

Project Name:	AVANT GARDNER	**Lab Number:**	L2125356
Project Number:	17244793	**Report Date:**	06/11/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: AVANT GARDNER **Lab Number:** L2125356
Project Number: 17244793 **Report Date:** 06/11/21

Case Narrative (continued)

Report Revision

June 11, 2021: The project number has been amended.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

The WG1501333-5 Method Blank, associated with L2125356-02D and -03, has a concentration above the reporting limit for bromomethane. Since the samples were non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

Semivolatile Organics

L2125356-01: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (21%) and 2,4,6-tribromophenol (9%) ; however, the recoveries were confirmed by the QC performed on this sample; therefore, re-extraction was not required.

The WG1503677-4 MS recoveries, performed on L2125356-01, are below the acceptance criteria for hexachlorocyclopentadiene (0%), 2,4,6-trichlorophenol (7%), 2-nitrophenol (9%), 4-nitrophenol (0%), 2,4-dinitrophenol (0%), 4,6-dinitro-o-cresol (0%), pentachlorophenol (7%), 2,4,5-trichlorophenol (18%) and benzoic acid (0%) due to the concentrations of these compounds in the MS/MSD falling below the reported detection limit.

The WG1503677-5 MSD recoveries, performed on L2125356-01, are below the acceptance criteria for fluoranthene (6%), hexachlorocyclopentadiene (0%), 2,4,6-trichlorophenol (5%), 2-nitrophenol (6%), 4-nitrophenol (0%), 2,4-dinitrophenol (0%), 4,6-dinitro-o-cresol (0%), pentachlorophenol (6%) and benzoic acid (0%) due to the concentrations of these compounds in the MS/MSD falling below the reported detection limit.

Perfluorinated Alkyl Acids by Isotope Dilution

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Case Narrative (continued)

L2125356-01, -03 and WG1499476-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

Pesticides

L2125356-01D and -03D: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

L2125356-01 and -03: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1501425-3 MS recoveries for aluminum (342%), calcium (456%), iron (0%), lead (49%) and manganese (0%), performed on L2125356-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1501425-3 MS recovery, performed on L2125356-01, is outside the acceptance criteria for magnesium (159%). A post digestion spike was performed and was within acceptance criteria.

The WG1501425-4 MSD recoveries for aluminum (576%), calcium (1120%), iron (0%), lead (24%), manganese (0%) and zinc (8%), performed on L2125356-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1501425-4 MSD recovery, performed on L2125356-01, is outside the acceptance criteria for magnesium (146%) and sodium (126%). A post digestion spike was performed and was within acceptance criteria.

The WG1501425-3/-4 MS/MSD RPDs for calcium (26%) and vanadium (22%), performed on L2125356-01, are above the acceptance criteria.

Total Mercury

The WG1501428-3/-4 MS/MSD recoveries for mercury (0%/418%), performed on L2125356-01, do not apply because the sample concentration is greater than four times the spike amount added.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Case Narrative (continued)

The WG1501428-3/-4 MS/MSD RPD for mercury (44%), performed on L2125356-01, is above the acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 06/11/21

ORGANICS

VOLATILES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-01
Client ID: 8-B1 (2-3)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/13/21 08:30
Date Received: 05/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 09:11
Analyst: MV
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	420	190	1
1,1-Dichloroethane	ND		ug/kg	85	12.	1
Chloroform	110	J	ug/kg	130	12.	1
Carbon tetrachloride	ND		ug/kg	85	20.	1
1,2-Dichloropropane	ND		ug/kg	85	11.	1
Dibromochloromethane	ND		ug/kg	85	12.	1
1,1,2-Trichloroethane	ND		ug/kg	85	23.	1
Tetrachloroethene	4200		ug/kg	42	17.	1
Chlorobenzene	ND		ug/kg	42	11.	1
Trichlorofluoromethane	ND		ug/kg	340	59.	1
1,2-Dichloroethane	ND		ug/kg	85	22.	1
1,1,1-Trichloroethane	ND		ug/kg	42	14.	1
Bromodichloromethane	ND		ug/kg	42	9.2	1
trans-1,3-Dichloropropene	ND		ug/kg	85	23.	1
cis-1,3-Dichloropropene	ND		ug/kg	42	13.	1
1,3-Dichloropropene, Total	ND		ug/kg	42	13.	1
1,1-Dichloropropene	ND		ug/kg	42	14.	1
Bromoform	ND		ug/kg	340	21.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	42	14.	1
Benzene	ND		ug/kg	42	14.	1
Toluene	ND		ug/kg	85	46.	1
Ethylbenzene	ND		ug/kg	85	12.	1
Chloromethane	ND		ug/kg	340	79.	1
Bromomethane	ND		ug/kg	170	49.	1
Vinyl chloride	ND		ug/kg	85	28.	1
Chloroethane	ND		ug/kg	170	38.	1
1,1-Dichloroethene	ND		ug/kg	85	20.	1
trans-1,2-Dichloroethene	ND		ug/kg	130	12.	1

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-01 Date Collected: 05/13/21 08:30

Client ID: 8-B1 (2-3) Date Received: 05/14/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	330		ug/kg	42	12.	1
1,2-Dichlorobenzene	ND		ug/kg	170	12.	1
1,3-Dichlorobenzene	ND		ug/kg	170	12.	1
1,4-Dichlorobenzene	ND		ug/kg	170	14.	1
Methyl tert butyl ether	ND		ug/kg	170	17.	1
p/m-Xylene	ND		ug/kg	170	48.	1
o-Xylene	ND		ug/kg	85	25.	1
Xylenes, Total	ND		ug/kg	85	25.	1
cis-1,2-Dichloroethene	ND		ug/kg	85	15.	1
1,2-Dichloroethene, Total	ND		ug/kg	85	12.	1
Dibromomethane	ND		ug/kg	170	20.	1
Styrene	ND		ug/kg	85	17.	1
Dichlorodifluoromethane	ND		ug/kg	850	78.	1
Acetone	ND		ug/kg	850	410	1
Carbon disulfide	ND		ug/kg	850	390	1
2-Butanone	390	J	ug/kg	850	190	1
Vinyl acetate	ND		ug/kg	850	180	1
4-Methyl-2-pentanone	ND		ug/kg	850	110	1
1,2,3-Trichloropropane	ND		ug/kg	170	11.	1
2-Hexanone	ND		ug/kg	850	100	1
Bromochloromethane	ND		ug/kg	170	17.	1
2,2-Dichloropropane	ND		ug/kg	170	17.	1
1,2-Dibromoethane	ND		ug/kg	85	24.	1
1,3-Dichloropropane	ND		ug/kg	170	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	42	11.	1
Bromobenzene	ND		ug/kg	170	12.	1
n-Butylbenzene	ND		ug/kg	85	14.	1
sec-Butylbenzene	ND		ug/kg	85	12.	1
tert-Butylbenzene	ND		ug/kg	170	10.	1
o-Chlorotoluene	ND		ug/kg	170	16.	1
p-Chlorotoluene	ND		ug/kg	170	9.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	85.	1
Hexachlorobutadiene	ND		ug/kg	340	14.	1
Isopropylbenzene	ND		ug/kg	85	9.2	1
p-Isopropyltoluene	ND		ug/kg	85	9.2	1
Naphthalene	290	J	ug/kg	340	55.	1
Acrylonitrile	ND		ug/kg	340	98.	1

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-01 Date Collected: 05/13/21 08:30

Client ID: 8-B1 (2-3) Date Received: 05/14/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	85	14.	1
1,2,3-Trichlorobenzene	ND		ug/kg	170	27.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	23.	1
1,3,5-Trimethylbenzene	ND		ug/kg	170	16.	1
1,2,4-Trimethylbenzene	ND		ug/kg	170	28.	1
1,4-Dioxane	ND		ug/kg	6800	3000	1
p-Diethylbenzene	ND		ug/kg	170	15.	1
p-Ethyltoluene	ND		ug/kg	170	33.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	170	16.	1
Ethyl ether	ND		ug/kg	170	29.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	420	120	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	97		70-130

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-02 D2 Date Collected: 05/13/21 10:00
Client ID: 10-B6 (3.5-4.5) Date Received: 05/14/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/20/21 15:26
Analyst: MKS
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	1700	800	5
1,1-Dichloroethane	ND		ug/kg	350	50.	5
Chloroform	500	J	ug/kg	520	49.	5
Carbon tetrachloride	ND		ug/kg	350	80.	5
1,2-Dichloropropane	ND		ug/kg	350	44.	5
Dibromochloromethane	ND		ug/kg	350	49.	5
1,1,2-Trichloroethane	ND		ug/kg	350	93.	5
Tetrachloroethene	200000	E	ug/kg	170	68.	5
Chlorobenzene	ND		ug/kg	170	44.	5
Trichlorofluoromethane	ND		ug/kg	1400	240	5
1,2-Dichloroethane	ND		ug/kg	350	90.	5
1,1,1-Trichloroethane	ND		ug/kg	170	58.	5
Bromodichloromethane	ND		ug/kg	170	38.	5
trans-1,3-Dichloropropene	ND		ug/kg	350	95.	5
cis-1,3-Dichloropropene	ND		ug/kg	170	55.	5
1,3-Dichloropropene, Total	ND		ug/kg	170	55.	5
1,1-Dichloropropene	ND		ug/kg	170	55.	5
Bromoform	ND		ug/kg	1400	86.	5
1,1,2,2-Tetrachloroethane	ND		ug/kg	170	58.	5
Benzene	ND		ug/kg	170	58.	5
Toluene	ND		ug/kg	350	190	5
Ethylbenzene	ND		ug/kg	350	49.	5
Chloromethane	ND		ug/kg	1400	320	5
Bromomethane	ND		ug/kg	700	200	5
Vinyl chloride	ND		ug/kg	350	120	5
Chloroethane	ND		ug/kg	700	160	5
1,1-Dichloroethene	ND		ug/kg	350	83.	5
trans-1,2-Dichloroethene	ND		ug/kg	520	48.	5

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-02 D2 Date Collected: 05/13/21 10:00

Client ID: 10-B6 (3.5-4.5) Date Received: 05/14/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	5500		ug/kg	170	48.	5
1,2-Dichlorobenzene	ND		ug/kg	700	50.	5
1,3-Dichlorobenzene	ND		ug/kg	700	52.	5
1,4-Dichlorobenzene	ND		ug/kg	700	60.	5
Methyl tert butyl ether	ND		ug/kg	700	70.	5
p/m-Xylene	ND		ug/kg	700	200	5
o-Xylene	ND		ug/kg	350	100	5
Xylenes, Total	ND		ug/kg	350	100	5
cis-1,2-Dichloroethene	760		ug/kg	350	61.	5
1,2-Dichloroethene, Total	760		ug/kg	350	48.	5
Dibromomethane	ND		ug/kg	700	83.	5
Styrene	ND		ug/kg	350	68.	5
Dichlorodifluoromethane	ND		ug/kg	3500	320	5
Acetone	ND		ug/kg	3500	1700	5
Carbon disulfide	ND		ug/kg	3500	1600	5
2-Butanone	ND		ug/kg	3500	770	5
Vinyl acetate	ND		ug/kg	3500	750	5
4-Methyl-2-pentanone	ND		ug/kg	3500	440	5
1,2,3-Trichloropropane	ND		ug/kg	700	44.	5
2-Hexanone	ND		ug/kg	3500	410	5
Bromochloromethane	ND		ug/kg	700	71.	5
2,2-Dichloropropane	ND		ug/kg	700	70.	5
1,2-Dibromoethane	ND		ug/kg	350	97.	5
1,3-Dichloropropane	ND		ug/kg	700	58.	5
1,1,1,2-Tetrachloroethane	ND		ug/kg	170	46.	5
Bromobenzene	ND		ug/kg	700	50.	5
n-Butylbenzene	ND		ug/kg	350	58.	5
sec-Butylbenzene	ND		ug/kg	350	51.	5
tert-Butylbenzene	ND		ug/kg	700	41.	5
o-Chlorotoluene	ND		ug/kg	700	66.	5
p-Chlorotoluene	ND		ug/kg	700	38.	5
1,2-Dibromo-3-chloropropane	ND		ug/kg	1000	350	5
Hexachlorobutadiene	ND		ug/kg	1400	59.	5
Isopropylbenzene	ND		ug/kg	350	38.	5
p-Isopropyltoluene	ND		ug/kg	350	38.	5
Naphthalene	310	J	ug/kg	1400	230	5
Acrylonitrile	ND		ug/kg	1400	400	5

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-02 D2 Date Collected: 05/13/21 10:00

Client ID: 10-B6 (3.5-4.5) Date Received: 05/14/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	350	60.	5
1,2,3-Trichlorobenzene	ND		ug/kg	700	110	5
1,2,4-Trichlorobenzene	ND		ug/kg	700	95.	5
1,3,5-Trimethylbenzene	ND		ug/kg	700	67.	5
1,2,4-Trimethylbenzene	180	J	ug/kg	700	120	5
1,4-Dioxane	ND		ug/kg	28000	12000	5
p-Diethylbenzene	92	J	ug/kg	700	62.	5
p-Ethyltoluene	ND		ug/kg	700	130	5
1,2,4,5-Tetramethylbenzene	ND		ug/kg	700	66.	5
Ethyl ether	ND		ug/kg	700	120	5
trans-1,4-Dichloro-2-butene	ND		ug/kg	1700	490	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	92		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-02 D
Client ID: 10-B6 (3.5-4.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/13/21 10:00
Date Received: 05/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/20/21 02:53
Analyst: MV
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	190000		ug/kg	350	140	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-03 Date Collected: 05/13/21 08:30
Client ID: DUP Date Received: 05/14/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/20/21 03:19
Analyst: MV
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	360	160	1
1,1-Dichloroethane	ND		ug/kg	72	10.	1
Chloroform	120		ug/kg	110	10.	1
Carbon tetrachloride	ND		ug/kg	72	16.	1
1,2-Dichloropropane	ND		ug/kg	72	9.0	1
Dibromochloromethane	ND		ug/kg	72	10.	1
1,1,2-Trichloroethane	ND		ug/kg	72	19.	1
Tetrachloroethene	3500		ug/kg	36	14.	1
Chlorobenzene	ND		ug/kg	36	9.2	1
Trichlorofluoromethane	ND		ug/kg	290	50.	1
1,2-Dichloroethane	ND		ug/kg	72	18.	1
1,1,1-Trichloroethane	ND		ug/kg	36	12.	1
Bromodichloromethane	ND		ug/kg	36	7.9	1
trans-1,3-Dichloropropene	ND		ug/kg	72	20.	1
cis-1,3-Dichloropropene	ND		ug/kg	36	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	36	11.	1
1,1-Dichloropropene	ND		ug/kg	36	11.	1
Bromoform	ND		ug/kg	290	18.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	36	12.	1
Benzene	ND		ug/kg	36	12.	1
Toluene	ND		ug/kg	72	39.	1
Ethylbenzene	ND		ug/kg	72	10.	1
Chloromethane	ND		ug/kg	290	67.	1
Bromomethane	59	JB	ug/kg	140	42.	1
Vinyl chloride	ND		ug/kg	72	24.	1
Chloroethane	ND		ug/kg	140	33.	1
1,1-Dichloroethene	ND		ug/kg	72	17.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	9.9	1

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-03 Date Collected: 05/13/21 08:30

Client ID: DUP Date Received: 05/14/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	320		ug/kg	36	9.9	1
1,2-Dichlorobenzene	ND		ug/kg	140	10.	1
1,3-Dichlorobenzene	ND		ug/kg	140	11.	1
1,4-Dichlorobenzene	ND		ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	ND		ug/kg	140	40.	1
o-Xylene	ND		ug/kg	72	21.	1
Xylenes, Total	ND		ug/kg	72	21.	1
cis-1,2-Dichloroethene	ND		ug/kg	72	13.	1
1,2-Dichloroethene, Total	ND		ug/kg	72	9.9	1
Dibromomethane	ND		ug/kg	140	17.	1
Styrene	ND		ug/kg	72	14.	1
Dichlorodifluoromethane	ND		ug/kg	720	66.	1
Acetone	ND		ug/kg	720	350	1
Carbon disulfide	ND		ug/kg	720	330	1
2-Butanone	ND		ug/kg	720	160	1
Vinyl acetate	ND		ug/kg	720	160	1
4-Methyl-2-pentanone	ND		ug/kg	720	92.	1
1,2,3-Trichloropropane	ND		ug/kg	140	9.2	1
2-Hexanone	ND		ug/kg	720	85.	1
Bromochloromethane	ND		ug/kg	140	15.	1
2,2-Dichloropropane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	72	20.	1
1,3-Dichloropropane	ND		ug/kg	140	12.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	36	9.5	1
Bromobenzene	ND		ug/kg	140	10.	1
n-Butylbenzene	ND		ug/kg	72	12.	1
sec-Butylbenzene	ND		ug/kg	72	10.	1
tert-Butylbenzene	ND		ug/kg	140	8.5	1
o-Chlorotoluene	ND		ug/kg	140	14.	1
p-Chlorotoluene	ND		ug/kg	140	7.8	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	220	72.	1
Hexachlorobutadiene	ND		ug/kg	290	12.	1
Isopropylbenzene	ND		ug/kg	72	7.9	1
p-Isopropyltoluene	ND		ug/kg	72	7.9	1
Naphthalene	ND		ug/kg	290	47.	1
Acrylonitrile	ND		ug/kg	290	83.	1

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-03 Date Collected: 05/13/21 08:30

Client ID: DUP Date Received: 05/14/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	72	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	20.	1
1,3,5-Trimethylbenzene	ND		ug/kg	140	14.	1
1,2,4-Trimethylbenzene	ND		ug/kg	140	24.	1
1,4-Dioxane	ND		ug/kg	5800	2500	1
p-Diethylbenzene	ND		ug/kg	140	13.	1
p-Ethyltoluene	ND		ug/kg	140	28.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	140	14.	1
Ethyl ether	ND		ug/kg	140	25.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	360	100	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	104		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/19/21 19:22
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02-03 Batch: WG1501333-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	7.8	J	ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	120		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/19/21 19:22
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02-03 Batch: WG1501333-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/19/21 19:22
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02-03 Batch: WG1501333-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/20/21 07:56
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02 Batch: WG1501816-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	11	J	ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/20/21 07:56
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02 Batch: WG1501816-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/20/21 07:56
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02 Batch: WG1501816-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/21 06:39
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1502254-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	8.4	J	ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/21 06:39
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1502254-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	120	J	ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/21 06:39
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1502254-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2125356
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-03 Batch: WG1501333-3 WG1501333-4								
Methylene chloride	111		108		70-130	3		30
1,1-Dichloroethane	121		118		70-130	3		30
Chloroform	105		104		70-130	1		30
Carbon tetrachloride	97		95		70-130	2		30
1,2-Dichloropropane	111		112		70-130	1		30
Dibromochloromethane	99		98		70-130	1		30
1,1,2-Trichloroethane	107		105		70-130	2		30
Tetrachloroethene	94		90		70-130	4		30
Chlorobenzene	98		94		70-130	4		30
Trichlorofluoromethane	126		124		70-139	2		30
1,2-Dichloroethane	115		114		70-130	1		30
1,1,1-Trichloroethane	104		103		70-130	1		30
Bromodichloromethane	105		105		70-130	0		30
trans-1,3-Dichloropropene	107		104		70-130	3		30
cis-1,3-Dichloropropene	103		103		70-130	0		30
1,1-Dichloropropene	113		112		70-130	1		30
Bromoform	87		88		70-130	1		30
1,1,2,2-Tetrachloroethane	102		103		70-130	1		30
Benzene	112		110		70-130	2		30
Toluene	105		102		70-130	3		30
Ethylbenzene	106		102		70-130	4		30
Chloromethane	**165**	Q	**161**	Q	52-130	2		30
Bromomethane	**249**	Q	**238**	Q	57-147	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2125356
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-03 Batch: WG1501333-3 WG1501333-4								
Vinyl chloride	**200**	Q	**195**	Q	67-130	3		30
Chloroethane	**242**	Q	**235**	Q	50-151	3		30
1,1-Dichloroethene	120		117		65-135	3		30
trans-1,2-Dichloroethene	114		111		70-130	3		30
Trichloroethene	105		104		70-130	1		30
1,2-Dichlorobenzene	91		91		70-130	0		30
1,3-Dichlorobenzene	94		93		70-130	1		30
1,4-Dichlorobenzene	92		91		70-130	1		30
Methyl tert butyl ether	97		96		66-130	1		30
p/m-Xylene	104		100		70-130	4		30
o-Xylene	103		100		70-130	3		30
cis-1,2-Dichloroethene	107		106		70-130	1		30
Dibromomethane	104		104		70-130	0		30
Styrene	107		104		70-130	3		30
Dichlorodifluoromethane	135		129		30-146	5		30
Acetone	114		111		54-140	3		30
Carbon disulfide	**140**	Q	**136**	Q	59-130	3		30
2-Butanone	104		113		70-130	8		30
Vinyl acetate	119		117		70-130	2		30
4-Methyl-2-pentanone	96		94		70-130	2		30
1,2,3-Trichloropropane	103		104		68-130	1		30
2-Hexanone	95		95		70-130	0		30
Bromochloromethane	102		102		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2125356
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-03 Batch: WG1501333-3 WG1501333-4								
2,2-Dichloropropane	103		101		70-130	2		30
1,2-Dibromoethane	105		104		70-130	1		30
1,3-Dichloropropane	110		107		69-130	3		30
1,1,1,2-Tetrachloroethane	94		92		70-130	2		30
Bromobenzene	88		89		70-130	1		30
n-Butylbenzene	108		107		70-130	1		30
sec-Butylbenzene	102		100		70-130	2		30
tert-Butylbenzene	95		94		70-130	1		30
o-Chlorotoluene	104		105		70-130	1		30
p-Chlorotoluene	106		105		70-130	1		30
1,2-Dibromo-3-chloropropane	73		76		68-130	4		30
Hexachlorobutadiene	81		80		67-130	1		30
Isopropylbenzene	97		97		70-130	0		30
p-Isopropyltoluene	97		96		70-130	1		30
Naphthalene	79		81		70-130	3		30
Acrylonitrile	120		120		70-130	0		30
n-Propylbenzene	104		103		70-130	1		30
1,2,3-Trichlorobenzene	79		80		70-130	1		30
1,2,4-Trichlorobenzene	80		81		70-130	1		30
1,3,5-Trimethylbenzene	99		98		70-130	1		30
1,2,4-Trimethylbenzene	100		100		70-130	0		30
1,4-Dioxane	89		91		65-136	2		30
p-Diethylbenzene	96		95		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-03 Batch: WG1501333-3 WG1501333-4								
p-Ethyltoluene	100		100		70-130	0		30
1,2,4,5-Tetramethylbenzene	92		90		70-130	2		30
Ethyl ether	117		117		67-130	0		30
trans-1,4-Dichloro-2-butene	110		114		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		112		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	100		102		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1501816-3 WG1501816-4								
Methylene chloride	98		88		70-130	11		30
1,1-Dichloroethane	99		88		70-130	12		30
Chloroform	95		86		70-130	10		30
Carbon tetrachloride	102		91		70-130	11		30
1,2-Dichloropropane	103		94		70-130	9		30
Dibromochloromethane	118		110		70-130	7		30
1,1,2-Trichloroethane	117		108		70-130	8		30
Tetrachloroethene	117		103		70-130	13		30
Chlorobenzene	106		96		70-130	10		30
Trichlorofluoromethane	114		99		70-139	14		30
1,2-Dichloroethane	100		94		70-130	6		30
1,1,1-Trichloroethane	100		88		70-130	13		30
Bromodichloromethane	102		93		70-130	9		30
trans-1,3-Dichloropropene	109		101		70-130	8		30
cis-1,3-Dichloropropene	111		102		70-130	8		30
1,1-Dichloropropene	108		96		70-130	12		30
Bromoform	119		112		70-130	6		30
1,1,2,2-Tetrachloroethane	120		112		70-130	7		30
Benzene	102		91		70-130	11		30
Toluene	106		94		70-130	12		30
Ethylbenzene	106		95		70-130	11		30
Chloromethane	125		107		52-130	16		30
Bromomethane	112		96		57-147	15		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1501816-3 WG1501816-4								
Vinyl chloride	114		97		67-130	16		30
Chloroethane	102		86		50-151	17		30
1,1-Dichloroethene	106		92		65-135	14		30
trans-1,2-Dichloroethene	102		88		70-130	15		30
Trichloroethene	108		97		70-130	11		30
1,2-Dichlorobenzene	112		100		70-130	11		30
1,3-Dichlorobenzene	111		99		70-130	11		30
1,4-Dichlorobenzene	111		98		70-130	12		30
Methyl tert butyl ether	113		105		66-130	7		30
p/m-Xylene	105		94		70-130	11		30
o-Xylene	103		93		70-130	10		30
cis-1,2-Dichloroethene	98		87		70-130	12		30
Dibromomethane	105		98		70-130	7		30
Styrene	104		95		70-130	9		30
Dichlorodifluoromethane	**150**	Q	129		30-146	15		30
Acetone	131		128		54-140	2		30
Carbon disulfide	108		92		59-130	16		30
2-Butanone	115		110		70-130	4		30
Vinyl acetate	105		93		70-130	12		30
4-Methyl-2-pentanone	127		124		70-130	2		30
1,2,3-Trichloropropane	118		112		68-130	5		30
2-Hexanone	126		126		70-130	0		30
Bromochloromethane	105		96		70-130	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1501816-3 WG1501816-4								
2,2-Dichloropropane	100		89		70-130	12		30
1,2-Dibromoethane	109		104		70-130	5		30
1,3-Dichloropropane	115		107		69-130	7		30
1,1,1,2-Tetrachloroethane	115		106		70-130	8		30
Bromobenzene	114		102		70-130	11		30
n-Butylbenzene	113		98		70-130	14		30
sec-Butylbenzene	112		97		70-130	14		30
tert-Butylbenzene	111		97		70-130	13		30
o-Chlorotoluene	110		97		70-130	13		30
p-Chlorotoluene	109		96		70-130	13		30
1,2-Dibromo-3-chloropropane	121		118		68-130	3		30
Hexachlorobutadiene	117		102		67-130	14		30
Isopropylbenzene	112		98		70-130	13		30
p-Isopropyltoluene	113		100		70-130	12		30
Naphthalene	114		108		70-130	5		30
Acrylonitrile	120		116		70-130	3		30
n-Propylbenzene	112		98		70-130	13		30
1,2,3-Trichlorobenzene	112		104		70-130	7		30
1,2,4-Trichlorobenzene	117		104		70-130	12		30
1,3,5-Trimethylbenzene	108		97		70-130	11		30
1,2,4-Trimethylbenzene	108		96		70-130	12		30
1,4-Dioxane	115		114		65-136	1		30
p-Diethylbenzene	113		99		70-130	13		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG1501816-3 WG1501816-4								
p-Ethyltoluene	112		99		70-130	12		30
1,2,4,5-Tetramethylbenzene	112		99		70-130	12		30
Ethyl ether	108		98		67-130	10		30
trans-1,4-Dichloro-2-butene	121		115		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		95		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	104		103		70-130
Dibromofluoromethane	92		93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2125356
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1502254-3 WG1502254-4								
Methylene chloride	95		94		70-130	1		30
1,1-Dichloroethane	98		95		70-130	3		30
Chloroform	93		93		70-130	0		30
Carbon tetrachloride	102		102		70-130	0		30
1,2-Dichloropropane	100		101		70-130	1		30
Dibromochloromethane	112		113		70-130	1		30
1,1,2-Trichloroethane	110		111		70-130	1		30
Tetrachloroethene	114		113		70-130	1		30
Chlorobenzene	102		101		70-130	1		30
Trichlorofluoromethane	115		112		70-139	3		30
1,2-Dichloroethane	98		99		70-130	1		30
1,1,1-Trichloroethane	99		98		70-130	1		30
Bromodichloromethane	98		99		70-130	1		30
trans-1,3-Dichloropropene	103		104		70-130	1		30
cis-1,3-Dichloropropene	108		108		70-130	0		30
1,1-Dichloropropene	107		106		70-130	1		30
Bromoform	111		113		70-130	2		30
1,1,2,2-Tetrachloroethane	111		113		70-130	2		30
Benzene	100		98		70-130	2		30
Toluene	103		101		70-130	2		30
Ethylbenzene	103		101		70-130	2		30
Chloromethane	124		120		52-130	3		30
Bromomethane	111		107		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1502254-3 WG1502254-4								
Vinyl chloride	111		108		67-130	3		30
Chloroethane	101		95		50-151	6		30
1,1-Dichloroethene	104		102		65-135	2		30
trans-1,2-Dichloroethene	100		97		70-130	3		30
Trichloroethene	104		103		70-130	1		30
1,2-Dichlorobenzene	105		103		70-130	2		30
1,3-Dichlorobenzene	107		105		70-130	2		30
1,4-Dichlorobenzene	105		103		70-130	2		30
Methyl tert butyl ether	109		110		66-130	1		30
p/m-Xylene	102		100		70-130	2		30
o-Xylene	99		99		70-130	0		30
cis-1,2-Dichloroethene	95		94		70-130	1		30
Dibromomethane	100		102		70-130	2		30
Styrene	100		100		70-130	0		30
Dichlorodifluoromethane	**150**	Q	144		30-146	4		30
Acetone	125		128		54-140	2		30
Carbon disulfide	105		103		59-130	2		30
2-Butanone	107		109		70-130	2		30
Vinyl acetate	111		115		70-130	4		30
4-Methyl-2-pentanone	117		121		70-130	3		30
1,2,3-Trichloropropane	109		110		68-130	1		30
2-Hexanone	120		124		70-130	3		30
Bromochloromethane	101		101		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1502254-3 WG1502254-4								
2,2-Dichloropropane	101		98		70-130	3		30
1,2-Dibromoethane	104		105		70-130	1		30
1,3-Dichloropropane	108		110		69-130	2		30
1,1,1,2-Tetrachloroethane	110		109		70-130	1		30
Bromobenzene	108		106		70-130	2		30
n-Butylbenzene	109		106		70-130	3		30
sec-Butylbenzene	108		105		70-130	3		30
tert-Butylbenzene	107		104		70-130	3		30
o-Chlorotoluene	104		103		70-130	1		30
p-Chlorotoluene	104		102		70-130	2		30
1,2-Dibromo-3-chloropropane	109		113		68-130	4		30
Hexachlorobutadiene	113		110		67-130	3		30
Isopropylbenzene	108		105		70-130	3		30
p-Isopropyltoluene	109		106		70-130	3		30
Naphthalene	106		106		70-130	0		30
Acrylonitrile	114		117		70-130	3		30
n-Propylbenzene	108		105		70-130	3		30
1,2,3-Trichlorobenzene	107		105		70-130	2		30
1,2,4-Trichlorobenzene	112		108		70-130	4		30
1,3,5-Trimethylbenzene	104		101		70-130	3		30
1,2,4-Trimethylbenzene	103		101		70-130	2		30
1,4-Dioxane	114		118		65-136	3		30
p-Diethylbenzene	109		106		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1502254-3 WG1502254-4								
p-Ethyltoluene	108		105		70-130	3		30
1,2,4,5-Tetramethylbenzene	107		105		70-130	2		30
Ethyl ether	101		103		67-130	2		30
trans-1,4-Dichloro-2-butene	121		114		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		96		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	104		102		70-130
Dibromofluoromethane	93		93		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1502254-6 WG1502254-7 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)												
Methylene chloride	ND	8500	7700	90		8100	96		70-130	20		30
1,1-Dichloroethane	ND	8500	7900	93		8300	98		70-130	19		30
Chloroform	110J	8500	7700	90		8000	94		70-130	19		30
Carbon tetrachloride	ND	8500	8700	102		9100	106		70-130	18		30
1,2-Dichloropropane	ND	8500	8100	96		8600	101		70-130	20		30
Dibromochloromethane	ND	8500	9000	105		9600	113		70-130	21		30
1,1,2-Trichloroethane	ND	8500	8600	101		9300	109		70-130	22		30
Tetrachloroethene	4200	8500	13000	107		13000	99		70-130	8		30
Chlorobenzene	ND	8500	8000	94		7800	92		70-130	12		30
Trichlorofluoromethane	ND	8500	4100	**48**	Q	4200	**49**	Q	70-139	16		30
1,2-Dichloroethane	ND	8500	7900	93		8500	100		70-130	22		30
1,1,1-Trichloroethane	ND	8500	8300	98		8700	102		70-130	19		30
Bromodichloromethane	ND	8500	8000	94		8400	99		70-130	20		30
trans-1,3-Dichloropropene	ND	8500	8100	95		8600	101		70-130	20		30
cis-1,3-Dichloropropene	ND	8500	8600	101		9000	105		70-130	18		30
1,1-Dichloropropene	ND	8500	8900	104		9100	107		70-130	17		30
Bromoform	ND	8500	8900	104		9500	111		70-130	21		30
1,1,2,2-Tetrachloroethane	ND	8500	4600	**54**	Q	2800	**33**	Q	70-130	**34**	Q	30
Benzene	ND	8500	8200	96		8500	100		70-130	18		30
Toluene	ND	8500	8300	97		8300	98		70-130	15		30
Ethylbenzene	ND	8500	8000	94		7600	89		70-130	9		30
Chloromethane	ND	8500	11000	128		12000	**135**	Q	52-130	19		30
Bromomethane	ND	8500	7500	88		8300	97		57-147	24		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1502254-6 WG1502254-7 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)												
Vinyl chloride	ND	8500	10000	118		11000	124		67-130	19		30
Chloroethane	ND	8500	2600	**31**	Q	2700	**32**	Q	50-151	18		30
1,1-Dichloroethene	ND	8500	8900	105		9200	109		65-135	18		30
trans-1,2-Dichloroethene	ND	8500	8300	97		8500	100		70-130	17		30
Trichloroethene	330	8500	12000	**137**	Q	14000	**162**	Q	70-130	30		30
1,2-Dichlorobenzene	ND	8500	7800	92		7400	87		70-130	9		30
1,3-Dichlorobenzene	ND	8500	7700	90		7000	82		70-130	5		30
1,4-Dichlorobenzene	ND	8500	7500	88		6900	81		70-130	6		30
Methyl tert butyl ether	ND	8500	8700	102		9500	112		66-130	23		30
p/m-Xylene	ND	17000	15000	91		15000	85		70-130	9		30
o-Xylene	ND	17000	15000	88		15000	86		70-130	12		30
cis-1,2-Dichloroethene	ND	8500	7800	91		8100	96		70-130	19		30
Dibromomethane	ND	8500	7900	93		8600	101		70-130	23		30
Styrene	ND	17000	15000	87		14000	85		70-130	12		30
Dichlorodifluoromethane	ND	8500	13000	**158**	Q	14000	**167**	Q	30-146	20		30
Acetone	ND	8500	9500	112		11000	124		54-140	24		30
Carbon disulfide	ND	8500	8800	103		9000	105		59-130	17		30
2-Butanone	390J	8500	8700	102		10000	118		70-130	28		30
Vinyl acetate	ND	8500	1100	**13**	Q	1100	**13**	Q	70-130	15		30
4-Methyl-2-pentanone	ND	8500	8900	104		10000	119		70-130	27		30
1,2,3-Trichloropropane	ND	8500	8300	98		9000	106		68-130	22		30
2-Hexanone	ND	8500	8800	103		10000	119		70-130	28		30
Bromochloromethane	ND	8500	8100	95		8500	100		70-130	19		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1502254-6 WG1502254-7 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)												
2,2-Dichloropropane	ND	8500	8300	98		8700	103		70-130	19		30
1,2-Dibromoethane	ND	8500	8100	96		8700	103		70-130	21		30
1,3-Dichloropropane	ND	8500	8600	101		9200	108		69-130	21		30
1,1,1,2-Tetrachloroethane	ND	8500	8900	105		9100	108		70-130	17		30
Bromobenzene	ND	8500	8300	98		8000	94		70-130	10		30
n-Butylbenzene	ND	8500	7500	88		6100	72		70-130	7		30
sec-Butylbenzene	ND	8500	8000	94		6900	81		70-130	0		30
tert-Butylbenzene	ND	8500	8100	95		7300	85		70-130	3		30
o-Chlorotoluene	ND	8500	7900	93		7200	85		70-130	5		30
p-Chlorotoluene	ND	8500	7700	90		6900	81		70-130	3		30
1,2-Dibromo-3-chloropropane	ND	8500	8300	98		9200	108		68-130	24		30
Hexachlorobutadiene	ND	8500	7700	90		6000	71		67-130	10		30
Isopropylbenzene	ND	8500	8300	98		7600	89		70-130	5		30
p-Isopropyltoluene	ND	8500	7800	92		6700	78		70-130	2		30
Naphthalene	290J	8500	8000	94		8400	98		70-130	19		30
Acrylonitrile	ND	8500	8700	102		9900	116		70-130	27		30
n-Propylbenzene	ND	8500	8000	94		7000	82		70-130	1		30
1,2,3-Trichlorobenzene	ND	8500	7500	88		7100	84		70-130	10		30
1,2,4-Trichlorobenzene	ND	8500	7600	89		6900	82		70-130	5		30
1,3,5-Trimethylbenzene	ND	8500	7800	91		6900	81		70-130	2		30
1,2,4-Trimethylbenzene	ND	8500	7700	90		6800	80		70-130	2		30
1,4-Dioxane	ND	420000	410000	98		440000	105		65-136	22		30
p-Diethylbenzene	ND	8500	7600	89		6200	73		70-130	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1502254-6 WG1502254-7 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)												
p-Ethyltoluene	ND	8500	7900	92		6800	80		70-130	0		30
1,2,4,5-Tetramethylbenzene	ND	8500	7600	90		6700	79		70-130	1		30
Ethyl ether	ND	8500	8200	96		8800	103		67-130	21		30
trans-1,4-Dichloro-2-butene	ND	8500	8500	100		9600	113		70-130	26		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		97		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	91		91		70-130
Toluene-d8	100		101		70-130

SEMIVOLATILES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-01
Client ID: 8-B1 (2-3)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/13/21 08:30
Date Received: 05/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/27/21 12:06
Analyst: JG
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 05/26/21 17:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	150	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	2500		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	200		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	92	J	ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-01 Date Collected: 05/13/21 08:30

Client ID: 8-B1 (2-3) Date Received: 05/14/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	1200		ug/kg	120	23.	1
Benzo(a)pyrene	1100		ug/kg	160	50.	1
Benzo(b)fluoranthene	1400		ug/kg	120	34.	1
Benzo(k)fluoranthene	350		ug/kg	120	33.	1
Chrysene	1100		ug/kg	120	21.	1
Acenaphthylene	64	J	ug/kg	160	32.	1
Anthracene	360		ug/kg	120	40.	1
Benzo(ghi)perylene	680		ug/kg	160	24.	1
Fluorene	120	J	ug/kg	200	20.	1
Phenanthrene	1700		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	160		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	710		ug/kg	160	28.	1
Pyrene	2300		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	87	J	ug/kg	200	19.	1
2-Methylnaphthalene	130	J	ug/kg	240	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	83.	1
2,4-Dinitrophenol	ND		ug/kg	980	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-01 Date Collected: 05/13/21 08:30

Client ID: 8-B1 (2-3) Date Received: 05/14/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	110	J	ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	31	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**21**	Q	25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	**9**	Q	10-136
4-Terphenyl-d14	51		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-01
Client ID: 8-B1 (2-3)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/13/21 08:30
Date Received: 05/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/20/21 23:21
Analyst: HT
Percent Solids: 82%

Extraction Method: ALPHA 23528
Extraction Date: 05/16/21 09:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.565	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.565	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.283	0.044	1
Perfluorohexanoic Acid (PFHxA)	0.114	JF	ng/g	0.565	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.283	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	0.124	J	ng/g	0.283	0.068	1
Perfluorooctanoic Acid (PFOA)	0.319		ng/g	0.283	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.565	0.203	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.565	0.154	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.283	0.085	1
Perfluorooctanesulfonic Acid (PFOS)	1.20		ng/g	0.283	0.147	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.283	0.076	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.565	0.324	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.565	0.228	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.565	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	0.750		ng/g	0.565	0.173	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.565	0.111	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.312	J	ng/g	0.565	0.096	1
Perfluorododecanoic Acid (PFDoA)	0.084	JF	ng/g	0.565	0.079	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.565	0.231	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.565	0.061	1
PFOA/PFOS, Total	1.52		ng/g	0.283	0.047	1

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-01 Date Collected: 05/13/21 08:30

Client ID: 8-B1 (2-3) Date Received: 05/14/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	70		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	74		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	81		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	73		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	74		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	**74**	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**71**	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	71		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	72		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	79		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**70**	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	74		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	44		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	76		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	60		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	38		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	74		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	62		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-02
Client ID: 10-B6 (3.5-4.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/13/21 10:00
Date Received: 05/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/27/21 11:10
Analyst: JG
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/26/21 18:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	430		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	4700		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	360		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-02 Date Collected: 05/13/21 10:00

Client ID: 10-B6 (3.5-4.5) Date Received: 05/14/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	2300		ug/kg	110	21.	1
Benzo(a)pyrene	1900		ug/kg	150	46.	1
Benzo(b)fluoranthene	2400		ug/kg	110	32.	1
Benzo(k)fluoranthene	850		ug/kg	110	30.	1
Chrysene	2100		ug/kg	110	20.	1
Acenaphthylene	170		ug/kg	150	29.	1
Anthracene	1100		ug/kg	110	37.	1
Benzo(ghi)perylene	1100		ug/kg	150	22.	1
Fluorene	480		ug/kg	190	18.	1
Phenanthrene	4500		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	300		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	1200		ug/kg	150	26.	1
Pyrene	4200		ug/kg	110	19.	1
Biphenyl	51	J	ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	310		ug/kg	190	18.	1
2-Methylnaphthalene	220	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	910	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-02 Date Collected: 05/13/21 10:00

Client ID: 10-B6 (3.5-4.5) Date Received: 05/14/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	380		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	62		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-03
Client ID: DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/13/21 08:30
Date Received: 05/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/27/21 12:28
Analyst: JG
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 05/26/21 17:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	77	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	2200		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	110	J	ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	70	J	ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-03 Date Collected: 05/13/21 08:30

Client ID: DUP Date Received: 05/14/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	1400		ug/kg	120	23.	1
Benzo(a)pyrene	1200		ug/kg	160	49.	1
Benzo(b)fluoranthene	1400		ug/kg	120	34.	1
Benzo(k)fluoranthene	400		ug/kg	120	32.	1
Chrysene	1200		ug/kg	120	21.	1
Acenaphthylene	58	J	ug/kg	160	31.	1
Anthracene	250		ug/kg	120	39.	1
Benzo(ghi)perylene	750		ug/kg	160	24.	1
Fluorene	65	J	ug/kg	200	20.	1
Phenanthrene	1000		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	170		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	740		ug/kg	160	28.	1
Pyrene	2600		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	47	J	ug/kg	200	19.	1
2-Methylnaphthalene	51	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-03 Date Collected: 05/13/21 08:30

Client ID: DUP Date Received: 05/14/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	70	J	ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	30	9.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	14		10-136
4-Terphenyl-d14	44		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-03
Client ID: DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/13/21 08:30
Date Received: 05/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/21/21 00:11
Analyst: HT
Percent Solids: 81%

Extraction Method: ALPHA 23528
Extraction Date: 05/16/21 09:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.045	J	ng/g	0.574	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.574	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.287	0.045	1
Perfluorohexanoic Acid (PFHxA)	0.123	J	ng/g	0.574	0.060	1
Perfluoroheptanoic Acid (PFHpA)	0.070	J	ng/g	0.287	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	0.165	J	ng/g	0.287	0.069	1
Perfluorooctanoic Acid (PFOA)	0.465		ng/g	0.287	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.574	0.206	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.574	0.156	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.287	0.086	1
Perfluorooctanesulfonic Acid (PFOS)	2.08		ng/g	0.287	0.149	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.287	0.077	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.574	0.329	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.574	0.231	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.574	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	1.35		ng/g	0.574	0.176	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.574	0.112	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.534	J	ng/g	0.574	0.097	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.574	0.080	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.574	0.234	1
Perfluorotetradecanoic Acid (PFTA)	0.080	JF	ng/g	0.574	0.062	1
PFOA/PFOS, Total	2.55		ng/g	0.287	0.048	1

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-03 Date Collected: 05/13/21 08:30

Client ID: DUP Date Received: 05/14/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	**51**	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	**55**	Q	58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	**70**	Q	74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**54**	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**54**	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	**65**	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**55**	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	50		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**54**	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**71**	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**52**	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	51		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**16**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	**57**	Q	61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	52		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**21**	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	54		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	47		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/20/21 22:48
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 05/16/21 09:26

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01,03 Batch: WG1499476-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	0.054	J	ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/20/21 22:48
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 05/16/21 09:26

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01,03 Batch: WG1499476-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	103		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	107		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	79		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/28/21 15:16
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/16/21 09:26

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01,03 Batch: WG1499476-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	68		10-117

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/26/21 10:56
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 05/25/21 23:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1503677-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/26/21 10:56
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 05/25/21 23:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1503677-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/26/21 10:56
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 05/25/21 23:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1503677-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	53		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	59		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/27/21 09:09
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 05/26/21 18:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1504168-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/27/21 09:09
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 05/26/21 18:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1504168-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/27/21 09:09
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 05/26/21 18:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1504168-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	72		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01,03		Batch: WG1499476-2					
Perfluorobutanoic Acid (PFBA)	101		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	101		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	97		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	102		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	99		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	99		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	98		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	104		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	95		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	98		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	99		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	102		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	104		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	93		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	100		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	97		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	95		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	102		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	108		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	104		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	105		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,03 Batch: WG1499476-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	100				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	97				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	113				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	109				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	89				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	97				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	15				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	78				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01,03		Batch: WG1499476-2					
Perfluorooctanesulfonamide (FOSA)	102		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	67				10-117

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1503677-2 WG1503677-3								
Acenaphthene	47		53		31-137	12		50
1,2,4-Trichlorobenzene	47		54		38-107	14		50
Hexachlorobenzene	44		51		40-140	15		50
Bis(2-chloroethyl)ether	43		50		40-140	15		50
2-Chloronaphthalene	49		55		40-140	12		50
1,2-Dichlorobenzene	46		53		40-140	14		50
1,3-Dichlorobenzene	45		51		40-140	13		50
1,4-Dichlorobenzene	45		50		28-104	11		50
3,3'-Dichlorobenzidine	44		49		40-140	11		50
2,4-Dinitrotoluene	53		61		40-132	14		50
2,6-Dinitrotoluene	58		63		40-140	8		50
Fluoranthene	50		57		40-140	13		50
4-Chlorophenyl phenyl ether	45		50		40-140	11		50
4-Bromophenyl phenyl ether	47		49		40-140	4		50
Bis(2-chloroisopropyl)ether	42		48		40-140	13		50
Bis(2-chloroethoxy)methane	47		54		40-117	14		50
Hexachlorobutadiene	42		49		40-140	15		50
Hexachlorocyclopentadiene	44		50		40-140	13		50
Hexachloroethane	47		55		40-140	16		50
Isophorone	50		58		40-140	15		50
Naphthalene	46		51		40-140	10		50
Nitrobenzene	46		54		40-140	16		50
NDPA/DPA	48		55		36-157	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1503677-2 WG1503677-3								
n-Nitrosodi-n-propylamine	50		57		32-121	13		50
Bis(2-ethylhexyl)phthalate	56		65		40-140	15		50
Butyl benzyl phthalate	56		63		40-140	12		50
Di-n-butylphthalate	53		61		40-140	14		50
Di-n-octylphthalate	55		63		40-140	14		50
Diethyl phthalate	50		57		40-140	13		50
Dimethyl phthalate	52		60		40-140	14		50
Benzo(a)anthracene	46		51		40-140	10		50
Benzo(a)pyrene	49		57		40-140	15		50
Benzo(b)fluoranthene	45		51		40-140	13		50
Benzo(k)fluoranthene	50		59		40-140	17		50
Chrysene	47		54		40-140	14		50
Acenaphthylene	49		56		40-140	13		50
Anthracene	49		57		40-140	15		50
Benzo(ghi)perylene	46		54		40-140	16		50
Fluorene	48		54		40-140	12		50
Phenanthrene	46		52		40-140	12		50
Dibenzo(a,h)anthracene	47		55		40-140	16		50
Indeno(1,2,3-cd)pyrene	46		53		40-140	14		50
Pyrene	48		55		35-142	14		50
Biphenyl	42		48		37-127	13		50
4-Chloroaniline	53		54		40-140	2		50
2-Nitroaniline	57		63		47-134	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2125356
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1503677-2 WG1503677-3								
3-Nitroaniline	47		51		26-129	8		50
4-Nitroaniline	51		57		41-125	11		50
Dibenzofuran	46		52		40-140	12		50
2-Methylnaphthalene	46		52		40-140	12		50
1,2,4,5-Tetrachlorobenzene	**38**	Q	44		40-117	15		50
Acetophenone	49		56		14-144	13		50
2,4,6-Trichlorophenol	49		56		30-130	13		50
p-Chloro-m-cresol	54		60		26-103	11		50
2-Chlorophenol	51		59		25-102	15		50
2,4-Dichlorophenol	52		62		30-130	18		50
2,4-Dimethylphenol	54		63		30-130	15		50
2-Nitrophenol	57		65		30-130	13		50
4-Nitrophenol	54		59		11-114	9		50
2,4-Dinitrophenol	48		54		4-130	12		50
4,6-Dinitro-o-cresol	54		60		10-130	11		50
Pentachlorophenol	51		56		17-109	9		50
Phenol	48		56		26-90	15		50
2-Methylphenol	51		60		30-130.	16		50
3-Methylphenol/4-Methylphenol	56		64		30-130	13		50
2,4,5-Trichlorophenol	52		57		30-130	9		50
Benzoic Acid	49		53		10-110	8		50
Benzyl Alcohol	51		58		40-140	13		50
Carbazole	**48**	Q	56		54-128	15		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2125356
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1503677-2 WG1503677-3								
1,4-Dioxane	**29**	Q	**34**	Q	40-140	16		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	44		52		25-120
Phenol-d6	48		57		10-120
Nitrobenzene-d5	49		57		23-120
2-Fluorobiphenyl	48		54		30-120
2,4,6-Tribromophenol	49		57		10-136
4-Terphenyl-d14	47		53		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2125356
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1504168-2 WG1504168-3								
Acenaphthene	65		72		31-137	10		50
1,2,4-Trichlorobenzene	61		67		38-107	9		50
Hexachlorobenzene	55		61		40-140	10		50
Bis(2-chloroethyl)ether	63		71		40-140	12		50
2-Chloronaphthalene	62		68		40-140	9		50
1,2-Dichlorobenzene	62		67		40-140	8		50
1,3-Dichlorobenzene	60		66		40-140	10		50
1,4-Dichlorobenzene	60		66		28-104	10		50
3,3'-Dichlorobenzidine	51		56		40-140	9		50
2,4-Dinitrotoluene	64		70		40-132	9		50
2,6-Dinitrotoluene	65		71		40-140	9		50
Fluoranthene	65		71		40-140	9		50
4-Chlorophenyl phenyl ether	56		62		40-140	10		50
4-Bromophenyl phenyl ether	56		63		40-140	12		50
Bis(2-chloroisopropyl)ether	70		76		40-140	8		50
Bis(2-chloroethoxy)methane	68		75		40-117	10		50
Hexachlorobutadiene	48		52		40-140	8		50
Hexachlorocyclopentadiene	48		52		40-140	8		50
Hexachloroethane	62		68		40-140	9		50
Isophorone	66		73		40-140	10		50
Naphthalene	63		69		40-140	9		50
Nitrobenzene	66		72		40-140	9		50
NDPA/DPA	65		72		36-157	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1504168-2 WG1504168-3								
n-Nitrosodi-n-propylamine	66		73		32-121	10		50
Bis(2-ethylhexyl)phthalate	75		83		40-140	10		50
Butyl benzyl phthalate	71		77		40-140	8		50
Di-n-butylphthalate	72		79		40-140	9		50
Di-n-octylphthalate	74		81		40-140	9		50
Diethyl phthalate	66		73		40-140	10		50
Dimethyl phthalate	64		69		40-140	8		50
Benzo(a)anthracene	62		68		40-140	9		50
Benzo(a)pyrene	66		73		40-140	10		50
Benzo(b)fluoranthene	60		68		40-140	13		50
Benzo(k)fluoranthene	66		74		40-140	11		50
Chrysene	62		70		40-140	12		50
Acenaphthylene	63		69		40-140	9		50
Anthracene	69		75		40-140	8		50
Benzo(ghi)perylene	65		73		40-140	12		50
Fluorene	65		72		40-140	10		50
Phenanthrene	66		72		40-140	9		50
Dibenzo(a,h)anthracene	68		74		40-140	8		50
Indeno(1,2,3-cd)pyrene	69		74		40-140	7		50
Pyrene	64		70		35-142	9		50
Biphenyl	65		71		37-127	9		50
4-Chloroaniline	56		62		40-140	10		50
2-Nitroaniline	67		72		47-134	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2125356
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1504168-2 WG1504168-3								
3-Nitroaniline	56		62		26-129	10		50
4-Nitroaniline	62		70		41-125	12		50
Dibenzofuran	63		69		40-140	9		50
2-Methylnaphthalene	65		70		40-140	7		50
1,2,4,5-Tetrachlorobenzene	53		57		40-117	7		50
Acetophenone	67		76		14-144	13		50
2,4,6-Trichlorophenol	59		63		30-130	7		50
p-Chloro-m-cresol	69		75		26-103	8		50
2-Chlorophenol	68		76		25-102	11		50
2,4-Dichlorophenol	69		76		30-130	10		50
2,4-Dimethylphenol	73		79		30-130	8		50
2-Nitrophenol	66		71		30-130	7		50
4-Nitrophenol	56		63		11-114	12		50
2,4-Dinitrophenol	49		55		4-130	12		50
4,6-Dinitro-o-cresol	55		61		10-130	10		50
Pentachlorophenol	53		60		17-109	12		50
Phenol	71		78		26-90	9		50
2-Methylphenol	73		80		30-130.	9		50
3-Methylphenol/4-Methylphenol	72		79		30-130	9		50
2,4,5-Trichlorophenol	60		66		30-130	10		50
Benzoic Acid	27		30		10-110	11		50
Benzyl Alcohol	67		75		40-140	11		50
Carbazole	71		78		54-128	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1504168-2 WG1504168-3								
1,4-Dioxane	49		53		40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		74		25-120
Phenol-d6	70		77		10-120
Nitrobenzene-d5	66		71		23-120
2-Fluorobiphenyl	62		67		30-120
2,4,6-Tribromophenol	57		62		10-136
4-Terphenyl-d14	61		67		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1499476-3 WG1499476-4 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)												
Perfluorobutanoic Acid (PFBA)	ND	5.58	5.58	100		5.66	99		71-135	1		30
Perfluoropentanoic Acid (PFPeA)	ND	5.58	5.52	99		5.62	99		69-132	2		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.95	4.88	99		5.00	99		72-128	2		30
Perfluorohexanoic Acid (PFHxA)	0.114JF	5.58	5.62	99		5.77	99		70-132	3		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.58	5.63	101		5.61	98		71-131	0		30
Perfluorohexanesulfonic Acid (PFHxS)	0.124J	5.1	5.12	98		5.45	102		67-130	6		30
Perfluorooctanoic Acid (PFOA)	0.319	5.58	5.74	97		6.06	101		69-133	5		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.31	5.76	108		6.08	112		64-140	5		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.31	4.98	94		5.32	98		70-132	7		30
Perfluorononanoic Acid (PFNA)	ND	5.58	5.50	99		5.70	100		72-129	4		30
Perfluorooctanesulfonic Acid (PFOS)	1.20	5.18	6.49	102		6.41	98		68-136	1		30
Perfluorodecanoic Acid (PFDA)	ND	5.58	5.44	98		5.74	101		69-133	5		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.35	5.57	104		6.52	119		65-137	16		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.58	7.46	134		5.58	98		63-144	29		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.58	5.55	100		5.68	100		64-136	2		30
Perfluorodecanesulfonic Acid (PFDS)	0.750	5.38	6.11	100		6.13	98		59-134	0		30
Perfluorooctanesulfonamide (FOSA)	ND	5.58	5.62	101		5.64	99		67-137	0		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.312J	5.58	6.42	110		6.63	111		61-139	3		30
Perfluorododecanoic Acid (PFDoA)	0.084JF	5.58	5.69	101		5.92	102		69-135	4		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.58	5.39	97		5.78	101		66-139	7		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.58	6.09	109		5.97	105		69-133	2		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1499476-3 WG1499476-4 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)												

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	84		72		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	82		78		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	47		46		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	35		49		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	79		84		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**73**	Q	79		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76		75		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	76		76		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	78		**73**	Q	78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		82		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	67		74		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	72		71		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	76		75		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	64		67		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	82		82		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**74**	Q	**73**	Q	75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	75		74		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	84		82		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1503677-4 WG1503677-5 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)												
Acenaphthene	150J	1630	1500	92		1200	74		31-137	22		50
1,2,4-Trichlorobenzene	ND	1630	1200	74		1200	74		38-107	0		50
Hexachlorobenzene	ND	1630	940	58		930	57		40-140	1		50
Bis(2-chloroethyl)ether	ND	1630	1400	86		1300	80		40-140	7		50
2-Chloronaphthalene	ND	1630	1200	74		1200	74		40-140	0		50
1,2-Dichlorobenzene	ND	1630	1200	74		1200	74		40-140	0		50
1,3-Dichlorobenzene	ND	1630	1200	74		1100	68		40-140	9		50
1,4-Dichlorobenzene	ND	1630	1200	74		1100	68		28-104	9		50
3,3'-Dichlorobenzidine	ND	1630	1000	61		1000	62		40-140	0		50
2,4-Dinitrotoluene	ND	1630	890	55		790	49		40-132	12		50
2,6-Dinitrotoluene	ND	1630	1100	68		950	58		40-140	15		50
Fluoranthene	2500	1630	6700	**260**	Q	2600	**6**	Q	40-140	**88**	Q	50
4-Chlorophenyl phenyl ether	ND	1630	1000	61		1000	62		40-140	0		50
4-Bromophenyl phenyl ether	ND	1630	1000	61		1000	62		40-140	0		50
Bis(2-chloroisopropyl)ether	ND	1630	1900	120		1800	110		40-140	5		50
Bis(2-chloroethoxy)methane	ND	1630	1400	86		1300	80		40-117	7		50
Hexachlorobutadiene	ND	1630	1100	68		1100	68		40-140	0		50
Hexachlorocyclopentadiene	ND	1630	ND	**0**	Q	ND	**0**	Q	40-140	NC		50
Hexachloroethane	ND	1630	1100	68		1000	62		40-140	10		50
Isophorone	ND	1630	1500	92		1400	86		40-140	7		50
Naphthalene	200	1630	1500	92		1300	80		40-140	14		50
Nitrobenzene	ND	1630	1600	98		1500	92		40-140	6		50
NDPA/DPA	ND	1630	1200	74		1200	74		36-157	0		50

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1503677-4 WG1503677-5 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)												
n-Nitrosodi-n-propylamine	ND	1630	1600	98		1600	98		32-121	0		50
Bis(2-ethylhexyl)phthalate	92J	1630	1300	80		1300	80		40-140	0		50
Butyl benzyl phthalate	ND	1630	1100	68		1100	68		40-140	0		50
Di-n-butylphthalate	ND	1630	1200	74		1200	74		40-140	0		50
Di-n-octylphthalate	ND	1630	1200	74		1200	74		40-140	0		50
Diethyl phthalate	ND	1630	1300	80		1200	74		40-140	8		50
Dimethyl phthalate	ND	1630	1300	80		1100	68		40-140	17		50
Benzo(a)anthracene	1200	1630	3300	130		1800	**37**	Q	40-140	**59**	Q	50
Benzo(a)pyrene	1100	1630	2900	110		1600	**31**	Q	40-140	**58**	Q	50
Benzo(b)fluoranthene	1400	1630	3300	120		1900	**31**	Q	40-140	**54**	Q	50
Benzo(k)fluoranthene	350	1630	1700	83		1100	46		40-140	43		50
Chrysene	1100	1630	3000	120		1600	**31**	Q	40-140	**61**	Q	50
Acenaphthylene	64J	1630	1300	80		1100	68		40-140	17		50
Anthracene	360	1630	2000	100		1300	58		40-140	42		50
Benzo(ghi)perylene	680	1630	2200	93		1400	44		40-140	44		50
Fluorene	120J	1630	1500	92		1200	74		40-140	22		50
Phenanthrene	1700	1630	6300	**280**	Q	2200	**31**	Q	40-140	**96**	Q	50
Dibenzo(a,h)anthracene	160	1630	1200	64		1000	52		40-140	18		50
Indeno(1,2,3-cd)pyrene	710	1630	2300	98		1400	42		40-140	49		50
Pyrene	2300	1630	6100	**230**	Q	2500	**12**	Q	35-142	**84**	Q	50
Biphenyl	ND	1630	1200	74		1100	68		37-127	9		50
4-Chloroaniline	ND	1630	1400	86		1300	80		40-140	7		50
2-Nitroaniline	ND	1630	1700	100		1600	98		47-134	6		50

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1503677-4 WG1503677-5 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)												
3-Nitroaniline	ND	1630	1600	98		1500	92		26-129	6		50
4-Nitroaniline	ND	1630	1600	98		1500	92		41-125	6		50
Dibenzofuran	87J	1630	1400	86		1100	68		40-140	24		50
2-Methylnaphthalene	130J	1630	1300	80		1200	74		40-140	8		50
1,2,4,5-Tetrachlorobenzene	ND	1630	1100	68		1100	68		40-117	0		50
Acetophenone	ND	1630	1400	86		1300	80		14-144	7		50
2,4,6-Trichlorophenol	ND	1630	110J	**7**	Q	75J	**5**	Q	30-130	38		50
p-Chloro-m-cresol	ND	1630	1500	92		1300	80		26-103	14		50
2-Chlorophenol	ND	1630	710	44		600	37		25-102	17		50
2,4-Dichlorophenol	ND	1630	660	41		550	34		30-130	18		50
2,4-Dimethylphenol	ND	1630	1400	86		1300	80		30-130	7		50
2-Nitrophenol	ND	1630	140J	**9**	Q	100J	**6**	Q	30-130	33		50
4-Nitrophenol	ND	1630	ND	**0**	Q	ND	**0**	Q	11-114	NC		50
2,4-Dinitrophenol	ND	1630	ND	**0**	Q	ND	**0**	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1630	ND	**0**	Q	ND	**0**	Q	10-130	NC		50
Pentachlorophenol	ND	1630	110J	**7**	Q	92J	**6**	Q	17-109	18		50
Phenol	ND	1630	1100	68		1000	62		26-90	10		50
2-Methylphenol	ND	1630	1400	86		1300	80		30-130.	7		50
3-Methylphenol/4-Methylphenol	ND	1630	1500	92		1400	86		30-130	7		50
2,4,5-Trichlorophenol	ND	1630	290	**18**	Q	220	**14**	Q	30-130	27		50
Benzoic Acid	ND	1630	ND	**0**	Q	ND	**0**	Q	10-110	NC		50
Benzyl Alcohol	ND	1630	1600	98		1500	92		40-140	6		50
Carbazole	110J	1630	1700	100		1300	80		54-128	27		50

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1503677-4 WG1503677-5 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)												
1,4-Dioxane	ND	1630	1000	61		970	60		40-140	3		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	**8**	Q	**6**	Q	10-136
2-Fluorobiphenyl	62		59		30-120
2-Fluorophenol	26		**22**	Q	25-120
4-Terphenyl-d14	46		42		18-120
Nitrobenzene-d5	97		91		23-120
Phenol-d6	71		66		10-120

PCBS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-01
Client ID: 8-B1 (2-3)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/13/21 08:30
Date Received: 05/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/28/21 15:16
Analyst: CW
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 05/26/21 22:34
Cleanup Method: EPA 3665A
Cleanup Date: 05/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.0	3.55	1	A
Aroclor 1221	ND		ug/kg	40.0	4.00	1	A
Aroclor 1232	ND		ug/kg	40.0	8.47	1	A
Aroclor 1242	ND		ug/kg	40.0	5.39	1	A
Aroclor 1248	ND		ug/kg	40.0	6.00	1	A
Aroclor 1254	97.0		ug/kg	40.0	4.37	1	B
Aroclor 1260	ND		ug/kg	40.0	7.38	1	A
Aroclor 1262	ND		ug/kg	40.0	5.08	1	A
Aroclor 1268	ND		ug/kg	40.0	4.14	1	A
PCBs, Total	97.0		ug/kg	40.0	3.55	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-03
Client ID: DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/13/21 08:30
Date Received: 05/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/28/21 15:41
Analyst: CW
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 05/26/21 22:34
Cleanup Method: EPA 3665A
Cleanup Date: 05/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.4	3.50	1	A
Aroclor 1221	ND		ug/kg	39.4	3.94	1	A
Aroclor 1232	ND		ug/kg	39.4	8.34	1	A
Aroclor 1242	ND		ug/kg	39.4	5.31	1	A
Aroclor 1248	ND		ug/kg	39.4	5.90	1	A
Aroclor 1254	138		ug/kg	39.4	4.31	1	A
Aroclor 1260	ND		ug/kg	39.4	7.27	1	A
Aroclor 1262	ND		ug/kg	39.4	5.00	1	A
Aroclor 1268	ND		ug/kg	39.4	4.08	1	A
PCBs, Total	138		ug/kg	39.4	3.50	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/28/21 10:54
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 05/26/21 22:34
Cleanup Method: EPA 3665A
Cleanup Date: 05/27/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03 Batch: WG1504204-1						
Aroclor 1016	ND		ug/kg	31.4	2.79	A
Aroclor 1221	ND		ug/kg	31.4	3.15	A
Aroclor 1232	ND		ug/kg	31.4	6.66	A
Aroclor 1242	ND		ug/kg	31.4	4.23	A
Aroclor 1248	ND		ug/kg	31.4	4.71	A
Aroclor 1254	ND		ug/kg	31.4	3.44	A
Aroclor 1260	ND		ug/kg	31.4	5.80	A
Aroclor 1262	ND		ug/kg	31.4	3.99	A
Aroclor 1268	ND		ug/kg	31.4	3.25	A
PCBs, Total	ND		ug/kg	31.4	2.79	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	69		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG1504204-2 WG1504204-3									
Aroclor 1016	95		86		40-140	10		50	A
Aroclor 1260	104		90		40-140	14		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		76		30-150	A
Decachlorobiphenyl	83		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		82		30-150	B
Decachlorobiphenyl	80		74		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1504204-4 WG1504204-5 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)													
Aroclor 1016	ND	253	176	69		176	72		40-140	0		50	A
Aroclor 1260	ND	253	213	84		210	86		40-140	1		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		54		30-150	A
Decachlorobiphenyl	51		52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		55		30-150	B
Decachlorobiphenyl	54		60		30-150	B

PESTICIDES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-01 D
Client ID: 8-B1 (2-3)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/13/21 08:30
Date Received: 05/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/28/21 05:52
Analyst: JMC
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 05/27/21 00:18
Cleanup Method: EPA 3620B
Cleanup Date: 05/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	3.85	0.754	2	A
Lindane	ND		ug/kg	1.60	0.717	2	A
Alpha-BHC	ND		ug/kg	1.60	0.456	2	A
Beta-BHC	ND		ug/kg	3.85	1.46	2	A
Heptachlor	ND		ug/kg	1.92	0.863	2	A
Aldrin	ND		ug/kg	3.85	1.36	2	A
Heptachlor epoxide	ND		ug/kg	7.22	2.17	2	A
Endrin	ND		ug/kg	1.60	0.658	2	A
Endrin aldehyde	ND		ug/kg	4.81	1.68	2	A
Endrin ketone	ND		ug/kg	3.85	0.992	2	A
Dieldrin	ND		ug/kg	2.41	1.20	2	A
4,4'-DDE	ND		ug/kg	3.85	0.891	2	A
4,4'-DDD	ND		ug/kg	3.85	1.37	2	A
4,4'-DDT	8.57		ug/kg	7.22	3.10	2	B
Endosulfan I	ND		ug/kg	3.85	0.910	2	A
Endosulfan II	ND		ug/kg	3.85	1.29	2	A
Endosulfan sulfate	ND		ug/kg	1.60	0.764	2	A
Methoxychlor	ND		ug/kg	7.22	2.25	2	A
Toxaphene	ND		ug/kg	72.2	20.2	2	A
cis-Chlordane	2.45	J	ug/kg	4.81	1.34	2	B
trans-Chlordane	4.02	J	ug/kg	4.81	1.27	2	A
Chlordane	ND		ug/kg	32.1	12.8	2	A

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-01 D
Client ID: 8-B1 (2-3)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/13/21 08:30
Date Received: 05/14/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-03 D
Client ID: DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/13/21 08:30
Date Received: 05/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/28/21 06:03
Analyst: JMC
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 05/27/21 00:18
Cleanup Method: EPA 3620B
Cleanup Date: 05/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	3.86	0.755	2	A
Lindane	ND		ug/kg	1.61	0.718	2	A
Alpha-BHC	ND		ug/kg	1.61	0.456	2	A
Beta-BHC	ND		ug/kg	3.86	1.46	2	A
Heptachlor	ND		ug/kg	1.93	0.865	2	A
Aldrin	ND		ug/kg	3.86	1.36	2	A
Heptachlor epoxide	ND		ug/kg	7.23	2.17	2	A
Endrin	ND		ug/kg	1.61	0.659	2	A
Endrin aldehyde	ND		ug/kg	4.82	1.69	2	A
Endrin ketone	ND		ug/kg	3.86	0.993	2	A
Dieldrin	ND		ug/kg	2.41	1.20	2	A
4,4'-DDE	ND		ug/kg	3.86	0.892	2	A
4,4'-DDD	ND		ug/kg	3.86	1.38	2	A
4,4'-DDT	11.0		ug/kg	7.23	3.10	2	B
Endosulfan I	ND		ug/kg	3.86	0.911	2	A
Endosulfan II	ND		ug/kg	3.86	1.29	2	A
Endosulfan sulfate	ND		ug/kg	1.61	0.765	2	A
Methoxychlor	ND		ug/kg	7.23	2.25	2	A
Toxaphene	ND		ug/kg	72.3	20.2	2	A
cis-Chlordane	2.79	J	ug/kg	4.82	1.34	2	B
trans-Chlordane	5.45		ug/kg	4.82	1.27	2	A
Chlordane	ND		ug/kg	32.1	12.8	2	A

Project Name: AVANT GARDNER **Lab Number:** L2125356

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-03 D
Client ID: DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/13/21 08:30
Date Received: 05/14/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	98		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/28/21 05:00
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 05/27/21 00:17
Cleanup Method: EPA 3620B
Cleanup Date: 05/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,03 Batch: WG1504220-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.634	0.283	A
Alpha-BHC	ND		ug/kg	0.634	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.577	A
Heptachlor	ND		ug/kg	0.761	0.341	A
Aldrin	ND		ug/kg	1.52	0.536	A
Heptachlor epoxide	ND		ug/kg	2.85	0.856	A
Endrin	ND		ug/kg	0.634	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.666	A
Endrin ketone	ND		ug/kg	1.52	0.392	A
Dieldrin	ND		ug/kg	0.951	0.476	A
4,4'-DDE	ND		ug/kg	1.52	0.352	A
4,4'-DDD	ND		ug/kg	1.52	0.543	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.360	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.634	0.302	A
Methoxychlor	ND		ug/kg	2.85	0.888	A
Toxaphene	ND		ug/kg	28.5	7.99	A
cis-Chlordane	ND		ug/kg	1.90	0.530	A
trans-Chlordane	ND		ug/kg	1.90	0.502	A
Chlordane	ND		ug/kg	12.7	5.04	A

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/28/21 05:00
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 05/27/21 00:17
Cleanup Method: EPA 3620B
Cleanup Date: 05/28/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,03 Batch: WG1504220-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	106		30-150	A
Decachlorobiphenyl	122		30-150	A
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	126		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG1504220-2 WG1504220-3									
Delta-BHC	106		107		30-150	1		30	A
Lindane	105		107		30-150	2		30	A
Alpha-BHC	112		114		30-150	2		30	A
Beta-BHC	91		93		30-150	2		30	A
Heptachlor	106		108		30-150	2		30	A
Aldrin	108		110		30-150	2		30	A
Heptachlor epoxide	99		106		30-150	7		30	A
Endrin	110		111		30-150	1		30	A
Endrin aldehyde	77		81		30-150	5		30	A
Endrin ketone	87		92		30-150	6		30	A
Dieldrin	116		118		30-150	2		30	A
4,4'-DDE	116		119		30-150	3		30	A
4,4'-DDD	105		109		30-150	4		30	A
4,4'-DDT	97		100		30-150	3		30	A
Endosulfan I	102		104		30-150	2		30	A
Endosulfan II	101		104		30-150	3		30	A
Endosulfan sulfate	73		76		30-150	4		30	A
Methoxychlor	75		80		30-150	6		30	A
cis-Chlordane	92		95		30-150	3		30	A
trans-Chlordane	111		119		30-150	7		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG1504220-2 WG1504220-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		99		30-150	A
Decachlorobiphenyl	112		112		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		93		30-150	B
Decachlorobiphenyl	117		119		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1504220-4 WG1504220-5 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)													
Delta-BHC	ND	40.4	33.2	82		30.7	77		30-150	8		50	A
Lindane	ND	40.4	34.0	84		30.7	77		30-150	10		50	A
Alpha-BHC	ND	40.4	38.3	95		34.8	87		30-150	10		50	A
Beta-BHC	ND	40.4	34.8	86		32.3	81		30-150	7		50	A
Heptachlor	ND	40.4	32.4	80		30.1	75		30-150	7		50	A
Aldrin	ND	40.4	32.4	80		30.1	75		30-150	7		50	A
Heptachlor epoxide	ND	40.4	32.0	79		30.3	76		30-150	5		50	A
Endrin	ND	40.4	35.4	88		32.5	81		30-150	9		50	A
Endrin aldehyde	ND	40.4	29.6	73		25.6	64		30-150	14		50	A
Endrin ketone	ND	40.4	38.0	94		34.3	86		30-150	10		50	A
Dieldrin	ND	40.4	37.8	94		34.3	86		30-150	10		50	A
4,4'-DDE	ND	40.4	33.8	84		30.2	76		30-150	11		50	A
4,4'-DDD	ND	40.4	36.8	91		33.6	84		30-150	9		50	A
4,4'-DDT	6.85J	40.4	36.9	91		34.2	86		30-150	8		50	A
Endosulfan I	ND	40.4	36.3	90		32.8	82		30-150	10		50	A
Endosulfan II	ND	40.4	33.2	82		30.4	76		30-150	9		50	A
Endosulfan sulfate	ND	40.4	23.6	58		20.8	52		30-150	13		50	A
Methoxychlor	ND	40.4	30.9	77		27.6	69		30-150	11		50	A
cis-Chlordane	1.99J	40.4	35.4	88		32.0	80		30-150	10		50	A
trans-Chlordane	4.02J	40.4	38.3	95		34.7	87		30-150	10		50	A

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1504220-4 WG1504220-5 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		77		30-150	A
Decachlorobiphenyl	78		70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		76		30-150	B
Decachlorobiphenyl	96		85		30-150	B

METALS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-01
Client ID: 8-B1 (2-3)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/13/21 08:30
Date Received: 05/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3560		mg/kg	9.39	2.53	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Antimony, Total	6.66		mg/kg	4.69	0.357	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Arsenic, Total	4.06		mg/kg	0.939	0.195	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Barium, Total	89.0		mg/kg	0.939	0.163	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Beryllium, Total	0.253	J	mg/kg	0.469	0.031	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Cadmium, Total	1.31		mg/kg	0.939	0.092	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Calcium, Total	17500		mg/kg	9.39	3.28	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Chromium, Total	31.4		mg/kg	0.939	0.090	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Cobalt, Total	6.31		mg/kg	1.88	0.156	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Copper, Total	57.6		mg/kg	0.939	0.242	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Iron, Total	24300		mg/kg	4.69	0.848	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Lead, Total	212		mg/kg	4.69	0.252	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Magnesium, Total	2630		mg/kg	9.39	1.44	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Manganese, Total	265		mg/kg	0.939	0.149	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Mercury, Total	1.22		mg/kg	0.085	0.055	1	05/24/21 06:48	05/25/21 15:36	EPA 7471B	1,7471B	OU
Nickel, Total	15.4		mg/kg	2.35	0.227	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Potassium, Total	442		mg/kg	235	13.5	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Selenium, Total	0.479	J	mg/kg	1.88	0.242	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.939	0.266	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Sodium, Total	155	J	mg/kg	188	2.96	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.88	0.296	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Vanadium, Total	15.6		mg/kg	0.939	0.190	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV
Zinc, Total	548		mg/kg	4.69	0.275	2	05/24/21 07:00	05/25/21 16:12	EPA 3050B	1,6010D	BV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-03
Client ID: DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/13/21 08:30
Date Received: 05/14/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4690		mg/kg	9.36	2.53	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Antimony, Total	7.69		mg/kg	4.68	0.356	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Arsenic, Total	4.90		mg/kg	0.936	0.195	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Barium, Total	144		mg/kg	0.936	0.163	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Beryllium, Total	0.337	J	mg/kg	0.468	0.031	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Cadmium, Total	1.30		mg/kg	0.936	0.092	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Calcium, Total	34500		mg/kg	9.36	3.28	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Chromium, Total	39.4		mg/kg	0.936	0.090	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Cobalt, Total	5.22		mg/kg	1.87	0.155	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Copper, Total	89.0		mg/kg	0.936	0.242	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Iron, Total	24400		mg/kg	4.68	0.846	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Lead, Total	239		mg/kg	4.68	0.251	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Magnesium, Total	7980		mg/kg	9.36	1.44	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Manganese, Total	278		mg/kg	0.936	0.149	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Mercury, Total	1.88		mg/kg	0.085	0.055	1	05/24/21 06:48	05/25/21 15:56	EPA 7471B	1,7471B	OU
Nickel, Total	15.1		mg/kg	2.34	0.227	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Potassium, Total	622		mg/kg	234	13.5	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Selenium, Total	0.552	J	mg/kg	1.87	0.242	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.936	0.265	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Sodium, Total	260		mg/kg	187	2.95	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.87	0.295	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Vanadium, Total	20.4		mg/kg	0.936	0.190	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV
Zinc, Total	415		mg/kg	4.68	0.274	2	05/24/21 07:00	05/25/21 18:04	EPA 3050B	1,6010D	BV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,03 Batch: WG1501425-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Barium, Total	ND		mg/kg	0.400	0.070	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Copper, Total	ND		mg/kg	0.400	0.103	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Iron, Total	ND		mg/kg	2.00	0.361	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Lead, Total	ND		mg/kg	2.00	0.107	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Potassium, Total	ND		mg/kg	100	5.76	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Silver, Total	ND		mg/kg	0.400	0.113	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Sodium, Total	6.92	J	mg/kg	80.0	1.26	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/24/21 07:00	05/25/21 15:37	1,6010D	BV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,03 Batch: WG1501428-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/24/21 06:48	05/25/21 15:30	1,7471B	OU

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03 Batch: WG1501425-2 SRM Lot Number: D109-540								
Aluminum, Total	59		-		50-150	-		
Antimony, Total	148		-		19-250	-		
Arsenic, Total	95		-		70-130	-		
Barium, Total	87		-		75-125	-		
Beryllium, Total	99		-		75-125	-		
Cadmium, Total	108		-		75-125	-		
Calcium, Total	94		-		73-128	-		
Chromium, Total	95		-		70-130	-		
Cobalt, Total	104		-		75-125	-		
Copper, Total	92		-		75-125	-		
Iron, Total	82		-		35-165	-		
Lead, Total	92		-		72-128	-		
Magnesium, Total	81		-		62-138	-		
Manganese, Total	88		-		74-126	-		
Nickel, Total	104		-		70-130	-		
Potassium, Total	78		-		59-141	-		
Selenium, Total	100		-		68-132	-		
Silver, Total	88		-		68-131	-		
Sodium, Total	94		-		35-165	-		
Thallium, Total	105		-		68-131	-		
Vanadium, Total	90		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03 Batch: WG1501425-2 SRM Lot Number: D109-540					
Zinc, Total	94	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01,03 Batch: WG1501428-2 SRM Lot Number: D109-540					
Mercury, Total	111	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2125356
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1501425-3 WG1501425-4 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)												
Aluminum, Total	3560	193	4220	**342**	Q	4690	**576**	Q	75-125	11		20
Antimony, Total	6.66	48.2	47.0	84		53.8	96		75-125	13		20
Arsenic, Total	4.06	11.6	16.6	108		17.4	113		75-125	5		20
Barium, Total	89.0	193	264	91		274	94		75-125	4		20
Beryllium, Total	0.253J	4.82	4.92	102		5.14	105		75-125	4		20
Cadmium, Total	1.31	4.92	5.58	87		5.84	91		75-125	5		20
Calcium, Total	17500	964	21900	**456**	Q	28500	**1120**	Q	75-125	**26**	Q	20
Chromium, Total	31.4	19.3	48.6	89		49.8	94		75-125	2		20
Cobalt, Total	6.31	48.2	50.2	91		55.2	100		75-125	9		20
Copper, Total	57.6	24.1	81.4	99		87.2	121		75-125	7		20
Iron, Total	24300	96.4	15900	**0**	Q	16900	**0**	Q	75-125	6		20
Lead, Total	212	49.2	236	**49**	Q	224	**24**	Q	75-125	5		20
Magnesium, Total	2630	964	4160	**159**	Q	4060	**146**	Q	75-125	2		20
Manganese, Total	265	48.2	230	**0**	Q	260	**0**	Q	75-125	12		20
Nickel, Total	15.4	48.2	58.4	89		62.3	96		75-125	6		20
Potassium, Total	442	964	1490	109		1520	110		75-125	2		20
Selenium, Total	0.479J	11.6	11.9	103		12.4	105		75-125	4		20
Silver, Total	ND	28.9	27.9	96		29.6	101		75-125	6		20
Sodium, Total	155J	964	1120	116		1240	**126**	Q	75-125	10		20
Thallium, Total	ND	11.6	9.43	82		9.88	84		75-125	5		20
Vanadium, Total	15.6	48.2	60.2	92		75.2	122		75-125	**22**	Q	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2125356
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1501425-3 WG1501425-4 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)												
Zinc, Total	548	48.2	597	102		552	**8**	Q	75-125	8		20
Total Metals - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1501428-3 WG1501428-4 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)												
Mercury, Total	1.22	0.168	1.20	**0**	Q	1.88	**418**	Q	80-120	**44**	Q	20

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2125356
Report Date: 06/11/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1501425-6 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)						
Aluminum, Total	3560	3670	mg/kg	3		20
Barium, Total	89.0	90.8	mg/kg	2		20
Calcium, Total	17500	17900	mg/kg	2		20
Chromium, Total	31.4	31.5	mg/kg	0		20
Copper, Total	57.6	55.6	mg/kg	3		20
Iron, Total	24300	25700	mg/kg	6		20
Lead, Total	212	218	mg/kg	3		20
Magnesium, Total	2630	2700	mg/kg	3		20
Manganese, Total	265	277	mg/kg	5		20
Zinc, Total	548	560	mg/kg	2		20

INORGANICS
&
MISCELLANEOUS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-01
Client ID: 8-B1 (2-3)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/13/21 08:30
Date Received: 05/14/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.5		%	0.100	NA	1	-	05/15/21 06:54	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-02
Client ID: 10-B6 (3.5-4.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/13/21 10:00
Date Received: 05/14/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	05/15/21 06:54	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2125356-03
Client ID: DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/13/21 08:30
Date Received: 05/14/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	05/15/21 06:54	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2125356

Report Date: 06/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1499261-1 QC Sample: L2125356-01 Client ID: 8-B1 (2-3)						
Solids, Total	81.5	82.1	%	1		20

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2125356
Report Date: 06/11/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2125356-01A	5 gram Encore Sampler	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-01A1	5 gram Encore Sampler	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-01A2	5 gram Encore Sampler	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-01B	5 gram Encore Sampler	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-01B1	5 gram Encore Sampler	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-01B2	5 gram Encore Sampler	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-01C	5 gram Encore Sampler	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-01C1	5 gram Encore Sampler	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-01C2	5 gram Encore Sampler	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-01D	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L2125356-01D1	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L2125356-01D2	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L2125356-01E	Plastic 2oz unpreserved for TS	B	NA		2.7	Y	Absent		TS(7)
L2125356-01E1	Plastic 2oz unpreserved for TS	B	NA		2.7	Y	Absent		TS(7)
L2125356-01E2	Plastic 2oz unpreserved for TS	B	NA		2.7	Y	Absent		TS(7)
L2125356-01F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),FE-TI(180),MG-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2125356-01F1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),FE-TI(180),MG-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2125356
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2125356-01F2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),FE-TI(180),MG-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2125356-01G	Plastic 8oz unpreserved	B	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2125356-01G1	Plastic 8oz unpreserved	B	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2125356-01G2	Plastic 8oz unpreserved	B	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2125356-01H	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2125356-01H1	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2125356-01H2	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2125356-01X	Vial MeOH preserved split	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-01X1	Vial MeOH preserved split	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-01X2	Vial MeOH preserved split	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-01Y	Vial Water preserved split	A	NA		3.4	Y	Absent	15-MAY-21 06:30	NYTCL-8260HLW(14)
L2125356-01Y1	Vial Water preserved split	A	NA		3.4	Y	Absent	15-MAY-21 06:30	NYTCL-8260HLW(14)
L2125356-01Y2	Vial Water preserved split	A	NA		3.4	Y	Absent	15-MAY-21 06:30	NYTCL-8260HLW(14)
L2125356-01Z	Vial Water preserved split	A	NA		3.4	Y	Absent	15-MAY-21 06:30	NYTCL-8260HLW(14)
L2125356-01Z1	Vial Water preserved split	A	NA		3.4	Y	Absent	15-MAY-21 06:30	NYTCL-8260HLW(14)
L2125356-01Z2	Vial Water preserved split	A	NA		3.4	Y	Absent	15-MAY-21 06:30	NYTCL-8260HLW(14)
L2125356-02A	5 gram Encore Sampler	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-02B	5 gram Encore Sampler	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-02C	5 gram Encore Sampler	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-02D	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L2125356-02E	Glass 120ml/4oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14)
L2125356-02X	Vial MeOH preserved split	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-02Y	Vial Water preserved split	A	NA		3.4	Y	Absent	15-MAY-21 06:30	NYTCL-8260HLW(14)
L2125356-02Z	Vial Water preserved split	A	NA		3.4	Y	Absent	15-MAY-21 06:30	NYTCL-8260HLW(14)
L2125356-03A	5 gram Encore Sampler	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2125356
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2125356-03B	5 gram Encore Sampler	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-03C	5 gram Encore Sampler	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-03D	Plastic 2oz unpreserved for TS	A	NA		3.4	Y	Absent		TS(7)
L2125356-03E	Plastic 2oz unpreserved for TS	B	NA		2.7	Y	Absent		TS(7)
L2125356-03F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2125356-03G	Plastic 8oz unpreserved	B	NA		2.7	Y	Absent		A2-NY-537-ISOTOPE(14)
L2125356-03H	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2125356-03X	Vial MeOH preserved split	A	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2125356-03Y	Vial Water preserved split	A	NA		3.4	Y	Absent	15-MAY-21 06:30	NYTCL-8260HLW(14)
L2125356-03Z	Vial Water preserved split	A	NA		3.4	Y	Absent	15-MAY-21 06:30	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2125356
Report Date: 06/11/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	AVANT GARDNER	**Lab Number:**	L2125356
Project Number:	17244793	**Report Date:**	06/11/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2125356
Project Number:	17244793	**Report Date:**	06/11/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2125356
Project Number:	17244793	**Report Date:**	06/11/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Project Name:	AVANT GARDNER	**Lab Number:**	L2125356
Project Number:	17244793	**Report Date:**	06/11/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 05/14/21

ALPHA Job #: L2125356

Client Information
Client: PSG (partner)
Address: 611 Industrial Way W
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLENTE partnereseng.com

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project #: 17243313
(Use Project name as Project #) ☒
Project Manager: David Lent
ALPHAQuote #: —

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☒ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other

Regulatory Requirement
☒ NY TOGS ☐ NY Part 375
☒ AWQ Standards ☒ NY CP-51
☒ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO # 17243313

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL. TAL Metals

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs (8260)	SVOCs (8270)	TAL Metals (6010)	PCBs (8082)	Pesticides (8081)	1,4 Dioxane (8270)	PFAs	Total Bottle	Sample Specific Comments
25356-01	B-B1(2-3)	5-13	830	S	AH	X	X	X	X	X	X	X		
-02	B-B6(3.5-4.5)	5-13	1000	S	AH	X	X							
-01	MS	5-13	830	S	AH	X	X	X	X	X	X	X		
-01	MSD	5-13	830	S	AH	X	X	X	X	X	X	X		
-03	DUP	5-13	830	S	AH	X	X	X	X	X	X	X		
Container Type						E	A	A	A	A	A	P		
Preservative						A	A	A	A	A	A	A		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/13 1200		5/14/21 10:45
	5/14/21 14:25		5/14/21 1604
	5/14/21 2203		5/14/21 2203

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2126281
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER
Project Number:	17244793
Report Date:	06/11/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2126281-01	2-B2 (9.5-10)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 08:15	05/19/21
L2126281-02	1-B2 (7.5-8.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 08:30	05/19/21
L2126281-03	4-B2 (6.5-7)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 09:00	05/19/21
L2126281-04	5-B1 (8.5-9)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 09:45	05/19/21
L2126281-05	10-B5 (6.5-7)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 10:00	05/19/21
L2126281-06	6-B1 (5.5-6)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 10:30	05/19/21
L2126281-07	7-B4 (6-6.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 11:00	05/19/21
L2126281-08	10-B3 (7-8)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 12:45	05/19/21
L2126281-09	8-B1 (7.5-8)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 13:15	05/19/21
L2126281-10	8-B1 (14-15)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 13:30	05/19/21
L2126281-11	10-B4 (5-5.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 14:00	05/19/21
L2126281-12	10-B4 (18-18.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 15:00	05/19/21

Project Name:	AVANT GARDNER	**Lab Number:**	L2126281
Project Number:	17244793	**Report Date:**	06/11/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Case Narrative (continued)

Report Revision

June 11, 2021: The project number has been amended.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2126281-05: The sample was analyzed as a High Level Methanol in order to quantitate results within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the Volatile Organics by EPA Method 5035/8260 High and Low Level analyses which have been attributed to sample non-homogeneity.

L2126281-07: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L2126281-07: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (135%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

Semivolatile Organics

L2126281-10D: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix, and due to the analytical dilution required by the sample matrix.

L2126281 -11: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Total Metals

The WG1504136-3 MS recoveries, performed on L2126281-10, are outside the acceptance criteria for barium

Project Name: AVANT GARDNER **Lab Number:** L2126281
Project Number: 17244793 **Report Date:** 06/11/21

Case Narrative (continued)

(47%) and thallium (42%). A post digestion spike was performed and was within acceptance criteria.
The WG1504136-3 MS recoveries for aluminum (69%), arsenic (0%), calcium (0%),copper (0%), iron (1380%), lead (0%), manganese (177%) and zinc (0%), performed on L2126281-10, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG1504136-3 MS recoveries, performed on L2126281-10, are outside the acceptance criteria for chromium (8%) and magnesium (42%). A post digestion spike was performed and yielded unacceptable recoveries for chromium (70%) and magnesium (69%). The serial dilution recovery was not applicable; therefore, these elements fail the matrix test and the results reported in the native sample should be considered estimated.
The WG1504138-3 MS recovery for mercury (316%), performed on L2126281-10, does not apply because the sample concentration is greater than four times the spike amount added.
The WG1504136-4 Laboratory Duplicate RPDs for aluminum (28%), arsenic (60%), barium (44%), cadmium (38%), calcium (59%), chromium (79%), cobalt (47%), iron (28%), lead (28%), magnesium (49%), manganese (58%), nickel (75%), vanadium (54%) and zinc (42%), performed on L2126281-10, are outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.
The WG1504138-4 Laboratory Duplicate RPD for mercury (32%), performed on L2126281-10, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 06/11/21

ORGANICS

VOLATILES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-01
Client ID: 2-B2 (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/18/21 08:15
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:33
Analyst: NLK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.14	1
Chloromethane	ND		ug/kg	3.8	0.90	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-01 Date Collected: 05/18/21 08:15

Client ID: 2-B2 (9.5-10) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
Xylenes, Total	ND		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.96	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	25		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	2.8	J	ug/kg	9.6	2.1	1
Vinyl acetate	ND		ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.96	0.16	1
sec-Butylbenzene	ND		ug/kg	0.96	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-01 Date Collected: 05/18/21 08:15

Client ID: 2-B2 (9.5-10) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.96	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	77	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	95		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-02
Client ID: 1-B2 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 08:30
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:58
Analyst: NLK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.95	0.14	1
Chloroform	0.13	J	ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.95	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.95	0.12	1
Dibromochloromethane	ND		ug/kg	0.95	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.95	0.25	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.95	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.95	0.52	1
Ethylbenzene	ND		ug/kg	0.95	0.13	1
Chloromethane	ND		ug/kg	3.8	0.88	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.95	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.95	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-02 Date Collected: 05/18/21 08:30

Client ID: 1-B2 (7.5-8.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.53	1
o-Xylene	ND		ug/kg	0.95	0.28	1
Xylenes, Total	ND		ug/kg	0.95	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.95	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.95	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.95	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.5	0.87	1
Acetone	23		ug/kg	9.5	4.6	1
Carbon disulfide	ND		ug/kg	9.5	4.3	1
2-Butanone	ND		ug/kg	9.5	2.1	1
Vinyl acetate	ND		ug/kg	9.5	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.5	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.5	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.95	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.95	0.16	1
sec-Butylbenzene	ND		ug/kg	0.95	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.95	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.95	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.95	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-02 Date Collected: 05/18/21 08:30

Client ID: 1-B2 (7.5-8.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.95	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	76	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	93		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-03
Client ID: 4-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 09:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 17:23
Analyst: NLK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-03 Date Collected: 05/18/21 09:00

Client ID: 4-B2 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	60		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	9.9	J	ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-03 Date Collected: 05/18/21 09:00

Client ID: 4-B2 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	80	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	95		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-04
Client ID: 5-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 09:45
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 17:48
Analyst: NLK
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-04 Date Collected: 05/18/21 09:45

Client ID: 5-B1 (8.5-9) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	87		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	18		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.28	J	ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-04 Date Collected: 05/18/21 09:45

Client ID: 5-B1 (8.5-9) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	0.41	J	ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	95		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05
Client ID: 10-B5 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 10:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 18:13
Analyst: NLK
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	1.0		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	0.73	J	ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05 Date Collected: 05/18/21 10:00

Client ID: 10-B5 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.40	J	ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	0.49	J	ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	0.49	J	ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	2800	E	ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	500	E	ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	0.37	J	ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.30	J	ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05 Date Collected: 05/18/21 10:00

Client ID: 10-B5 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	0.71	J	ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	124		70-130
Dibromofluoromethane	96		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05
Client ID: 10-B5 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 10:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/24/21 12:21
Analyst: KJD
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	330	150	1
1,1-Dichloroethane	ND		ug/kg	65	9.4	1
Chloroform	ND		ug/kg	98	9.1	1
Carbon tetrachloride	ND		ug/kg	65	15.	1
1,2-Dichloropropane	ND		ug/kg	65	8.2	1
Dibromochloromethane	ND		ug/kg	65	9.1	1
1,1,2-Trichloroethane	ND		ug/kg	65	17.	1
Tetrachloroethene	ND		ug/kg	33	13.	1
Chlorobenzene	ND		ug/kg	33	8.3	1
Trichlorofluoromethane	ND		ug/kg	260	45.	1
1,2-Dichloroethane	ND		ug/kg	65	17.	1
1,1,1-Trichloroethane	ND		ug/kg	33	11.	1
Bromodichloromethane	ND		ug/kg	33	7.1	1
trans-1,3-Dichloropropene	ND		ug/kg	65	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	33	10.	1
1,3-Dichloropropene, Total	ND		ug/kg	33	10.	1
1,1-Dichloropropene	ND		ug/kg	33	10.	1
Bromoform	ND		ug/kg	260	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	33	11.	1
Benzene	ND		ug/kg	33	11.	1
Toluene	ND		ug/kg	65	35.	1
Ethylbenzene	ND		ug/kg	65	9.2	1
Chloromethane	ND		ug/kg	260	61.	1
Bromomethane	ND		ug/kg	130	38.	1
Vinyl chloride	ND		ug/kg	65	22.	1
Chloroethane	ND		ug/kg	130	29.	1
1,1-Dichloroethene	ND		ug/kg	65	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	98	8.9	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05 Date Collected: 05/18/21 10:00

Client ID: 10-B5 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	33	8.9	1
1,2-Dichlorobenzene	ND		ug/kg	130	9.4	1
1,3-Dichlorobenzene	ND		ug/kg	130	9.6	1
1,4-Dichlorobenzene	ND		ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	ND		ug/kg	130	36.	1
o-Xylene	ND		ug/kg	65	19.	1
Xylenes, Total	ND		ug/kg	65	19.	1
cis-1,2-Dichloroethene	ND		ug/kg	65	11.	1
1,2-Dichloroethene, Total	ND		ug/kg	65	8.9	1
Dibromomethane	ND		ug/kg	130	16.	1
Styrene	26	J	ug/kg	65	13.	1
Dichlorodifluoromethane	ND		ug/kg	650	60.	1
Acetone	ND		ug/kg	650	310	1
Carbon disulfide	ND		ug/kg	650	300	1
2-Butanone	ND		ug/kg	650	140	1
Vinyl acetate	ND		ug/kg	650	140	1
4-Methyl-2-pentanone	ND		ug/kg	650	83.	1
1,2,3-Trichloropropane	ND		ug/kg	130	8.3	1
2-Hexanone	ND		ug/kg	650	77.	1
Bromochloromethane	ND		ug/kg	130	13.	1
2,2-Dichloropropane	ND		ug/kg	130	13.	1
1,2-Dibromoethane	ND		ug/kg	65	18.	1
1,3-Dichloropropane	ND		ug/kg	130	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	33	8.6	1
Bromobenzene	ND		ug/kg	130	9.4	1
n-Butylbenzene	ND		ug/kg	65	11.	1
sec-Butylbenzene	ND		ug/kg	65	9.5	1
tert-Butylbenzene	ND		ug/kg	130	7.7	1
o-Chlorotoluene	ND		ug/kg	130	12.	1
p-Chlorotoluene	ND		ug/kg	130	7.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	65.	1
Hexachlorobutadiene	ND		ug/kg	260	11.	1
Isopropylbenzene	ND		ug/kg	65	7.1	1
p-Isopropyltoluene	ND		ug/kg	65	7.1	1
Naphthalene	ND		ug/kg	260	42.	1
Acrylonitrile	ND		ug/kg	260	75.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05 Date Collected: 05/18/21 10:00

Client ID: 10-B5 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	65	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	18.	1
1,3,5-Trimethylbenzene	ND		ug/kg	130	12.	1
1,2,4-Trimethylbenzene	ND		ug/kg	130	22.	1
1,4-Dioxane	ND		ug/kg	5200	2300	1
p-Diethylbenzene	ND		ug/kg	130	12.	1
p-Ethyltoluene	ND		ug/kg	130	25.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	130	12.	1
Ethyl ether	ND		ug/kg	130	22.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	330	93.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-06
Client ID: 6-B1 (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 10:30
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 18:39
Analyst: NLK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	300	140	1
1,1-Dichloroethane	ND		ug/kg	59	8.6	1
Chloroform	230		ug/kg	89	8.3	1
Carbon tetrachloride	ND		ug/kg	59	14.	1
1,2-Dichloropropane	ND		ug/kg	59	7.4	1
Dibromochloromethane	ND		ug/kg	59	8.3	1
1,1,2-Trichloroethane	ND		ug/kg	59	16.	1
Tetrachloroethene	14000		ug/kg	30	12.	1
Chlorobenzene	ND		ug/kg	30	7.6	1
Trichlorofluoromethane	ND		ug/kg	240	41.	1
1,2-Dichloroethane	ND		ug/kg	59	15.	1
1,1,1-Trichloroethane	61		ug/kg	30	9.9	1
Bromodichloromethane	ND		ug/kg	30	6.5	1
trans-1,3-Dichloropropene	ND		ug/kg	59	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	30	9.4	1
1,3-Dichloropropene, Total	ND		ug/kg	30	9.4	1
1,1-Dichloropropene	ND		ug/kg	30	9.4	1
Bromoform	ND		ug/kg	240	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	30	9.9	1
Benzene	ND		ug/kg	30	9.9	1
Toluene	ND		ug/kg	59	32.	1
Ethylbenzene	11	J	ug/kg	59	8.4	1
Chloromethane	ND		ug/kg	240	55.	1
Bromomethane	ND		ug/kg	120	34.	1
Vinyl chloride	91		ug/kg	59	20.	1
Chloroethane	ND		ug/kg	120	27.	1
1,1-Dichloroethene	14	J	ug/kg	59	14.	1
trans-1,2-Dichloroethene	83	J	ug/kg	89	8.1	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-06 Date Collected: 05/18/21 10:30

Client ID: 6-B1 (5.5-6) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	2000		ug/kg	30	8.1	1
1,2-Dichlorobenzene	48	J	ug/kg	120	8.6	1
1,3-Dichlorobenzene	ND		ug/kg	120	8.8	1
1,4-Dichlorobenzene	14	J	ug/kg	120	10.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	ND		ug/kg	120	33.	1
o-Xylene	ND		ug/kg	59	17.	1
Xylenes, Total	ND		ug/kg	59	17.	1
cis-1,2-Dichloroethene	12000		ug/kg	59	10.	1
1,2-Dichloroethene, Total	12000	J	ug/kg	59	8.1	1
Dibromomethane	ND		ug/kg	120	14.	1
Styrene	ND		ug/kg	59	12.	1
Dichlorodifluoromethane	ND		ug/kg	590	54.	1
Acetone	ND		ug/kg	590	290	1
Carbon disulfide	ND		ug/kg	590	270	1
2-Butanone	380	J	ug/kg	590	130	1
Vinyl acetate	ND		ug/kg	590	130	1
4-Methyl-2-pentanone	ND		ug/kg	590	76.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.6	1
2-Hexanone	ND		ug/kg	590	70.	1
Bromochloromethane	ND		ug/kg	120	12.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	59	16.	1
1,3-Dichloropropane	ND		ug/kg	120	9.9	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	30	7.8	1
Bromobenzene	ND		ug/kg	120	8.6	1
n-Butylbenzene	ND		ug/kg	59	9.9	1
sec-Butylbenzene	ND		ug/kg	59	8.7	1
tert-Butylbenzene	ND		ug/kg	120	7.0	1
o-Chlorotoluene	ND		ug/kg	120	11.	1
p-Chlorotoluene	ND		ug/kg	120	6.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	59.	1
Hexachlorobutadiene	ND		ug/kg	240	10.	1
Isopropylbenzene	ND		ug/kg	59	6.5	1
p-Isopropyltoluene	13	J	ug/kg	59	6.5	1
Naphthalene	ND		ug/kg	240	39.	1
Acrylonitrile	ND		ug/kg	240	68.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-06 Date Collected: 05/18/21 10:30

Client ID: 6-B1 (5.5-6) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	59	10.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	16.	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	20.	1
1,4-Dioxane	ND		ug/kg	4800	2100	1
p-Diethylbenzene	ND		ug/kg	120	10.	1
p-Ethyltoluene	ND		ug/kg	120	23.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	120	11.	1
Ethyl ether	ND		ug/kg	120	20.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	300	84.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	91		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-07
Client ID: 7-B4 (6-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 11:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 19:04
Analyst: NLK
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	330	150	1
1,1-Dichloroethane	ND		ug/kg	67	9.7	1
Chloroform	13	J	ug/kg	100	9.4	1
Carbon tetrachloride	ND		ug/kg	67	15.	1
1,2-Dichloropropane	ND		ug/kg	67	8.4	1
Dibromochloromethane	ND		ug/kg	67	9.4	1
1,1,2-Trichloroethane	ND		ug/kg	67	18.	1
Tetrachloroethene	180		ug/kg	33	13.	1
Chlorobenzene	ND		ug/kg	33	8.5	1
Trichlorofluoromethane	ND		ug/kg	270	46.	1
1,2-Dichloroethane	ND		ug/kg	67	17.	1
1,1,1-Trichloroethane	ND		ug/kg	33	11.	1
Bromodichloromethane	ND		ug/kg	33	7.3	1
trans-1,3-Dichloropropene	ND		ug/kg	67	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	33	10.	1
1,3-Dichloropropene, Total	ND		ug/kg	33	10.	1
1,1-Dichloropropene	ND		ug/kg	33	11.	1
Bromoform	ND		ug/kg	270	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	33	11.	1
Benzene	ND		ug/kg	33	11.	1
Toluene	ND		ug/kg	67	36.	1
Ethylbenzene	ND		ug/kg	67	9.4	1
Chloromethane	ND		ug/kg	270	62.	1
Bromomethane	ND		ug/kg	130	39.	1
Vinyl chloride	120		ug/kg	67	22.	1
Chloroethane	ND		ug/kg	130	30.	1
1,1-Dichloroethene	ND		ug/kg	67	16.	1
trans-1,2-Dichloroethene	36	J	ug/kg	100	9.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-07 Date Collected: 05/18/21 11:00

Client ID: 7-B4 (6-6.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	67		ug/kg	33	9.2	1
1,2-Dichlorobenzene	ND		ug/kg	130	9.6	1
1,3-Dichlorobenzene	ND		ug/kg	130	9.9	1
1,4-Dichlorobenzene	ND		ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	ND		ug/kg	130	37.	1
o-Xylene	ND		ug/kg	67	19.	1
Xylenes, Total	ND		ug/kg	67	19.	1
cis-1,2-Dichloroethene	390		ug/kg	67	12.	1
1,2-Dichloroethene, Total	430	J	ug/kg	67	9.2	1
Dibromomethane	ND		ug/kg	130	16.	1
Styrene	ND		ug/kg	67	13.	1
Dichlorodifluoromethane	ND		ug/kg	670	61.	1
Acetone	ND		ug/kg	670	320	1
Carbon disulfide	ND		ug/kg	670	300	1
2-Butanone	270	J	ug/kg	670	150	1
Vinyl acetate	ND		ug/kg	670	140	1
4-Methyl-2-pentanone	ND		ug/kg	670	86.	1
1,2,3-Trichloropropane	ND		ug/kg	130	8.5	1
2-Hexanone	ND		ug/kg	670	79.	1
Bromochloromethane	ND		ug/kg	130	14.	1
2,2-Dichloropropane	ND		ug/kg	130	14.	1
1,2-Dibromoethane	ND		ug/kg	67	19.	1
1,3-Dichloropropane	ND		ug/kg	130	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	33	8.8	1
Bromobenzene	ND		ug/kg	130	9.7	1
n-Butylbenzene	58	J	ug/kg	67	11.	1
sec-Butylbenzene	34	J	ug/kg	67	9.8	1
tert-Butylbenzene	12	J	ug/kg	130	7.9	1
o-Chlorotoluene	ND		ug/kg	130	13.	1
p-Chlorotoluene	ND		ug/kg	130	7.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	67.	1
Hexachlorobutadiene	17	J	ug/kg	270	11.	1
Isopropylbenzene	ND		ug/kg	67	7.3	1
p-Isopropyltoluene	8.4	J	ug/kg	67	7.3	1
Naphthalene	120	J	ug/kg	270	44.	1
Acrylonitrile	ND		ug/kg	270	77.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-07 Date Collected: 05/18/21 11:00

Client ID: 7-B4 (6-6.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	67	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	18.	1
1,3,5-Trimethylbenzene	ND		ug/kg	130	13.	1
1,2,4-Trimethylbenzene	ND		ug/kg	130	22.	1
1,4-Dioxane	ND		ug/kg	5400	2300	1
p-Diethylbenzene	81	J	ug/kg	130	12.	1
p-Ethyltoluene	ND		ug/kg	130	26.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	130	13.	1
Ethyl ether	ND		ug/kg	130	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	330	95.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	**135**	Q	70-130
Dibromofluoromethane	93		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-08
Client ID: 10-B3 (7-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/18/21 12:45
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 19:29
Analyst: NLK
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.56	J	ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	0.41	J	ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	0.22	J	ug/kg	0.54	0.18	1
Toluene	0.72	J	ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-08 Date Collected: 05/18/21 12:45

Client ID: 10-B3 (7-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.17	J	ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	0.57	J	ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	0.57	J	ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	0.90	J	ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	84		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	15		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	1.8	J	ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-08 Date Collected: 05/18/21 12:45

Client ID: 10-B3 (7-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	122		70-130
Dibromofluoromethane	81		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-09 Date Collected: 05/18/21 13:15
Client ID: 8-B1 (7.5-8) Date Received: 05/19/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 19:54
Analyst: NLK
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	0.20	J	ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	0.79		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.97	0.53	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	1.9	0.57	1
Vinyl chloride	ND		ug/kg	0.97	0.33	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-09 Date Collected: 05/18/21 13:15

Client ID: 8-B1 (7.5-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.35	J	ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.89	1
Acetone	ND		ug/kg	9.7	4.7	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.2	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.2	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.12	1
o-Chlorotoluene	ND		ug/kg	1.9	0.19	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.97	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.11	1
Naphthalene	ND		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-09 Date Collected: 05/18/21 13:15

Client ID: 8-B1 (7.5-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.97	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	78	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.19	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	98		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10 Date Collected: 05/18/21 13:30
Client ID: 8-B1 (14-15) Date Received: 05/19/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 20:19
Analyst: NLK
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	11	4.9	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.31	1
Chloroform	0.30	J	ug/kg	3.2	0.30	1
Carbon tetrachloride	ND		ug/kg	2.1	0.49	1
1,2-Dichloropropane	ND		ug/kg	2.1	0.27	1
Dibromochloromethane	ND		ug/kg	2.1	0.30	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.57	1
Tetrachloroethene	ND		ug/kg	1.1	0.42	1
Chlorobenzene	4.1		ug/kg	1.1	0.27	1
Trichlorofluoromethane	ND		ug/kg	8.5	1.5	1
1,2-Dichloroethane	ND		ug/kg	2.1	0.55	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.36	1
Bromodichloromethane	ND		ug/kg	1.1	0.23	1
trans-1,3-Dichloropropene	ND		ug/kg	2.1	0.58	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.34	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.34	1
1,1-Dichloropropene	ND		ug/kg	1.1	0.34	1
Bromoform	ND		ug/kg	8.5	0.52	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Benzene	27		ug/kg	1.1	0.35	1
Toluene	3.4		ug/kg	2.1	1.2	1
Ethylbenzene	3.5		ug/kg	2.1	0.30	1
Chloromethane	ND		ug/kg	8.5	2.0	1
Bromomethane	ND		ug/kg	4.3	1.2	1
Vinyl chloride	ND		ug/kg	2.1	0.71	1
Chloroethane	ND		ug/kg	4.3	0.96	1
1,1-Dichloroethene	ND		ug/kg	2.1	0.51	1
trans-1,2-Dichloroethene	ND		ug/kg	3.2	0.29	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10 Date Collected: 05/18/21 13:30

Client ID: 8-B1 (14-15) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.29	1
1,2-Dichlorobenzene	ND		ug/kg	4.3	0.31	1
1,3-Dichlorobenzene	ND		ug/kg	4.3	0.32	1
1,4-Dichlorobenzene	ND		ug/kg	4.3	0.36	1
Methyl tert butyl ether	ND		ug/kg	4.3	0.43	1
p/m-Xylene	5.3		ug/kg	4.3	1.2	1
o-Xylene	5.6		ug/kg	2.1	0.62	1
Xylenes, Total	11		ug/kg	2.1	0.62	1
cis-1,2-Dichloroethene	ND		ug/kg	2.1	0.37	1
1,2-Dichloroethene, Total	ND		ug/kg	2.1	0.29	1
Dibromomethane	ND		ug/kg	4.3	0.51	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	21	2.0	1
Acetone	350		ug/kg	21	10.	1
Carbon disulfide	ND		ug/kg	21	9.7	1
2-Butanone	110		ug/kg	21	4.7	1
Vinyl acetate	ND		ug/kg	21	4.6	1
4-Methyl-2-pentanone	ND		ug/kg	21	2.7	1
1,2,3-Trichloropropane	ND		ug/kg	4.3	0.27	1
2-Hexanone	ND		ug/kg	21	2.5	1
Bromochloromethane	ND		ug/kg	4.3	0.44	1
2,2-Dichloropropane	ND		ug/kg	4.3	0.43	1
1,2-Dibromoethane	ND		ug/kg	2.1	0.60	1
1,3-Dichloropropane	ND		ug/kg	4.3	0.36	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.28	1
Bromobenzene	ND		ug/kg	4.3	0.31	1
n-Butylbenzene	0.63	J	ug/kg	2.1	0.36	1
sec-Butylbenzene	5.6		ug/kg	2.1	0.31	1
tert-Butylbenzene	1.9	J	ug/kg	4.3	0.25	1
o-Chlorotoluene	ND		ug/kg	4.3	0.41	1
p-Chlorotoluene	ND		ug/kg	4.3	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	2.1	1
Hexachlorobutadiene	ND		ug/kg	8.5	0.36	1
Isopropylbenzene	8.4		ug/kg	2.1	0.23	1
p-Isopropyltoluene	9.2		ug/kg	2.1	0.23	1
Naphthalene	59		ug/kg	8.5	1.4	1
Acrylonitrile	ND		ug/kg	8.5	2.4	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10 Date Collected: 05/18/21 13:30

Client ID: 8-B1 (14-15) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	4.7		ug/kg	2.1	0.36	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.3	0.69	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.3	0.58	1
1,3,5-Trimethylbenzene	32		ug/kg	4.3	0.41	1
1,2,4-Trimethylbenzene	51		ug/kg	4.3	0.71	1
1,4-Dioxane	ND		ug/kg	170	75.	1
p-Diethylbenzene	0.56	J	ug/kg	4.3	0.38	1
p-Ethyltoluene	4.6		ug/kg	4.3	0.82	1
1,2,4,5-Tetramethylbenzene	2.0	J	ug/kg	4.3	0.41	1
Ethyl ether	ND		ug/kg	4.3	0.73	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	11	3.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	128		70-130
Dibromofluoromethane	93		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-11
Client ID: 10-B4 (5-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 14:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 20:44
Analyst: NLK
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.1	3.3	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.21	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.33	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	0.79		ug/kg	0.71	0.28	1
Chlorobenzene	ND		ug/kg	0.71	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.99	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.37	1
1,1,1-Trichloroethane	ND		ug/kg	0.71	0.24	1
Bromodichloromethane	ND		ug/kg	0.71	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.39	1
cis-1,3-Dichloropropene	ND		ug/kg	0.71	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.71	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.71	0.23	1
Bromoform	ND		ug/kg	5.7	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.71	0.24	1
Benzene	ND		ug/kg	0.71	0.24	1
Toluene	ND		ug/kg	1.4	0.77	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.7	1.3	1
Bromomethane	ND		ug/kg	2.8	0.83	1
Vinyl chloride	ND		ug/kg	1.4	0.48	1
Chloroethane	ND		ug/kg	2.8	0.64	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.20	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-11 Date Collected: 05/18/21 14:00

Client ID: 10-B4 (5-5.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.30	J	ug/kg	0.71	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.29	1
p/m-Xylene	ND		ug/kg	2.8	0.80	1
o-Xylene	ND		ug/kg	1.4	0.42	1
Xylenes, Total	ND		ug/kg	1.4	0.42	1
cis-1,2-Dichloroethene	0.55	J	ug/kg	1.4	0.25	1
1,2-Dichloroethene, Total	0.55	J	ug/kg	1.4	0.20	1
Dibromomethane	ND		ug/kg	2.8	0.34	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	ND		ug/kg	14	6.9	1
Carbon disulfide	ND		ug/kg	14	6.5	1
2-Butanone	ND		ug/kg	14	3.2	1
Vinyl acetate	ND		ug/kg	14	3.1	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	0.18	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.8	0.29	1
2,2-Dichloropropane	ND		ug/kg	2.8	0.29	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.40	1
1,3-Dichloropropane	ND		ug/kg	2.8	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.71	0.19	1
Bromobenzene	ND		ug/kg	2.8	0.21	1
n-Butylbenzene	0.91	J	ug/kg	1.4	0.24	1
sec-Butylbenzene	0.81	J	ug/kg	1.4	0.21	1
tert-Butylbenzene	ND		ug/kg	2.8	0.17	1
o-Chlorotoluene	ND		ug/kg	2.8	0.27	1
p-Chlorotoluene	ND		ug/kg	2.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.3	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.24	1
Isopropylbenzene	0.39	J	ug/kg	1.4	0.16	1
p-Isopropyltoluene	0.83	J	ug/kg	1.4	0.16	1
Naphthalene	ND		ug/kg	5.7	0.93	1
Acrylonitrile	ND		ug/kg	5.7	1.6	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-11 Date Collected: 05/18/21 14:00

Client ID: 10-B4 (5-5.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	1.0	J	ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.46	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.39	1
1,3,5-Trimethylbenzene	1.2	J	ug/kg	2.8	0.28	1
1,2,4-Trimethylbenzene	6.5		ug/kg	2.8	0.48	1
1,4-Dioxane	ND		ug/kg	110	50.	1
p-Diethylbenzene	0.59	J	ug/kg	2.8	0.25	1
p-Ethyltoluene	2.6	J	ug/kg	2.8	0.55	1
1,2,4,5-Tetramethylbenzene	0.62	J	ug/kg	2.8	0.27	1
Ethyl ether	ND		ug/kg	2.8	0.49	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.1	2.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	95		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-12 Date Collected: 05/18/21 15:00
Client ID: 10-B4 (18-18.5) Date Received: 05/19/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 21:09
Analyst: NLK
Percent Solids: 26%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	30	14.	1
1,1-Dichloroethane	1.2	J	ug/kg	5.9	0.86	1
Chloroform	ND		ug/kg	8.8	0.83	1
Carbon tetrachloride	ND		ug/kg	5.9	1.4	1
1,2-Dichloropropane	ND		ug/kg	5.9	0.74	1
Dibromochloromethane	ND		ug/kg	5.9	0.83	1
1,1,2-Trichloroethane	ND		ug/kg	5.9	1.6	1
Tetrachloroethene	ND		ug/kg	3.0	1.2	1
Chlorobenzene	ND		ug/kg	3.0	0.75	1
Trichlorofluoromethane	ND		ug/kg	24	4.1	1
1,2-Dichloroethane	ND		ug/kg	5.9	1.5	1
1,1,1-Trichloroethane	ND		ug/kg	3.0	0.99	1
Bromodichloromethane	ND		ug/kg	3.0	0.64	1
trans-1,3-Dichloropropene	ND		ug/kg	5.9	1.6	1
cis-1,3-Dichloropropene	ND		ug/kg	3.0	0.93	1
1,3-Dichloropropene, Total	ND		ug/kg	3.0	0.93	1
1,1-Dichloropropene	ND		ug/kg	3.0	0.94	1
Bromoform	ND		ug/kg	24	1.4	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.0	0.98	1
Benzene	15		ug/kg	3.0	0.98	1
Toluene	140		ug/kg	5.9	3.2	1
Ethylbenzene	7.6		ug/kg	5.9	0.83	1
Chloromethane	ND		ug/kg	24	5.5	1
Bromomethane	ND		ug/kg	12	3.4	1
Vinyl chloride	ND		ug/kg	5.9	2.0	1
Chloroethane	ND		ug/kg	12	2.7	1
1,1-Dichloroethene	ND		ug/kg	5.9	1.4	1
trans-1,2-Dichloroethene	ND		ug/kg	8.8	0.81	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-12 Date Collected: 05/18/21 15:00

Client ID: 10-B4 (18-18.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	3.0	0.81	1
1,2-Dichlorobenzene	ND		ug/kg	12	0.85	1
1,3-Dichlorobenzene	ND		ug/kg	12	0.87	1
1,4-Dichlorobenzene	ND		ug/kg	12	1.0	1
Methyl tert butyl ether	ND		ug/kg	12	1.2	1
p/m-Xylene	ND		ug/kg	12	3.3	1
o-Xylene	ND		ug/kg	5.9	1.7	1
Xylenes, Total	ND		ug/kg	5.9	1.7	1
cis-1,2-Dichloroethene	ND		ug/kg	5.9	1.0	1
1,2-Dichloroethene, Total	ND		ug/kg	5.9	0.81	1
Dibromomethane	ND		ug/kg	12	1.4	1
Styrene	ND		ug/kg	5.9	1.2	1
Dichlorodifluoromethane	ND		ug/kg	59	5.4	1
Acetone	1000		ug/kg	59	28.	1
Carbon disulfide	92		ug/kg	59	27.	1
2-Butanone	330		ug/kg	59	13.	1
Vinyl acetate	ND		ug/kg	59	13.	1
4-Methyl-2-pentanone	ND		ug/kg	59	7.6	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.75	1
2-Hexanone	ND		ug/kg	59	7.0	1
Bromochloromethane	ND		ug/kg	12	1.2	1
2,2-Dichloropropane	ND		ug/kg	12	1.2	1
1,2-Dibromoethane	ND		ug/kg	5.9	1.6	1
1,3-Dichloropropane	ND		ug/kg	12	0.99	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	3.0	0.78	1
Bromobenzene	ND		ug/kg	12	0.86	1
n-Butylbenzene	ND		ug/kg	5.9	0.99	1
sec-Butylbenzene	ND		ug/kg	5.9	0.86	1
tert-Butylbenzene	ND		ug/kg	12	0.70	1
o-Chlorotoluene	ND		ug/kg	12	1.1	1
p-Chlorotoluene	ND		ug/kg	12	0.64	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	18	5.9	1
Hexachlorobutadiene	ND		ug/kg	24	1.0	1
Isopropylbenzene	ND		ug/kg	5.9	0.64	1
p-Isopropyltoluene	ND		ug/kg	5.9	0.64	1
Naphthalene	ND		ug/kg	24	3.8	1
Acrylonitrile	ND		ug/kg	24	6.8	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-12 Date Collected: 05/18/21 15:00

Client ID: 10-B4 (18-18.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	5.9	1.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	12	1.9	1
1,2,4-Trichlorobenzene	ND		ug/kg	12	1.6	1
1,3,5-Trimethylbenzene	ND		ug/kg	12	1.1	1
1,2,4-Trimethylbenzene	ND		ug/kg	12	2.0	1
1,4-Dioxane	ND		ug/kg	470	210	1
p-Diethylbenzene	ND		ug/kg	12	1.0	1
p-Ethyltoluene	ND		ug/kg	12	2.3	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	12	1.1	1
Ethyl ether	ND		ug/kg	12	2.0	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	30	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	127		70-130
Dibromofluoromethane	95		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:08
Analyst: KTD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,08-12 Batch: WG1502600-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.21	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:08
Analyst: KTD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,08-12 Batch: WG1502600-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	2.5	J	ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:08
Analyst: KTD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,08-12 Batch: WG1502600-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	92		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:08
Analyst: KTD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06-07 Batch: WG1502603-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	10	J	ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:08
Analyst: KTD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06-07 Batch: WG1502603-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	130	J	ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:08
Analyst: KTD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06-07 Batch: WG1502603-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	92		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/24/21 07:38
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1503429-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/24/21 07:38
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1503429-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/24/21 07:38
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1503429-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-12 Batch: WG1502600-3 WG1502600-4								
Methylene chloride	104		104		70-130	0		30
1,1-Dichloroethane	121		119		70-130	2		30
Chloroform	102		101		70-130	1		30
Carbon tetrachloride	91		87		70-130	4		30
1,2-Dichloropropane	124		123		70-130	1		30
Dibromochloromethane	98		96		70-130	2		30
1,1,2-Trichloroethane	113		113		70-130	0		30
Tetrachloroethene	91		87		70-130	4		30
Chlorobenzene	100		98		70-130	2		30
Trichlorofluoromethane	**64**	Q	**62**	Q	70-139	3		30
1,2-Dichloroethane	109		109		70-130	0		30
1,1,1-Trichloroethane	93		90		70-130	3		30
Bromodichloromethane	99		98		70-130	1		30
trans-1,3-Dichloropropene	116		115		70-130	1		30
cis-1,3-Dichloropropene	111		110		70-130	1		30
1,1-Dichloropropene	108		105		70-130	3		30
Bromoform	93		94		70-130	1		30
1,1,2,2-Tetrachloroethane	120		119		70-130	1		30
Benzene	108		107		70-130	1		30
Toluene	110		107		70-130	3		30
Ethylbenzene	107		104		70-130	3		30
Chloromethane	**151**	Q	**149**	Q	52-130	1		30
Bromomethane	80		76		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-12 Batch: WG1502600-3 WG1502600-4								
Vinyl chloride	102		98		67-130	4		30
Chloroethane	79		77		50-151	3		30
1,1-Dichloroethene	102		98		65-135	4		30
trans-1,2-Dichloroethene	101		99		70-130	2		30
Trichloroethene	94		92		70-130	2		30
1,2-Dichlorobenzene	99		98		70-130	1		30
1,3-Dichlorobenzene	100		98		70-130	2		30
1,4-Dichlorobenzene	100		98		70-130	2		30
Methyl tert butyl ether	111		111		66-130	0		30
p/m-Xylene	99		96		70-130	3		30
o-Xylene	99		97		70-130	2		30
cis-1,2-Dichloroethene	102		100		70-130	2		30
Dibromomethane	98		97		70-130	1		30
Styrene	102		99		70-130	3		30
Dichlorodifluoromethane	110		105		30-146	5		30
Acetone	**164**	Q	**160**	Q	54-140	2		30
Carbon disulfide	110		107		59-130	3		30
2-Butanone	**151**	Q	**148**	Q	70-130	2		30
Vinyl acetate	**146**	Q	**147**	Q	70-130	1		30
4-Methyl-2-pentanone	129		127		70-130	2		30
1,2,3-Trichloropropane	120		121		68-130	1		30
2-Hexanone	**142**	Q	**142**	Q	70-130	0		30
Bromochloromethane	90		90		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-12 Batch: WG1502600-3 WG1502600-4								
2,2-Dichloropropane	103		100		70-130	3		30
1,2-Dibromoethane	105		103		70-130	2		30
1,3-Dichloropropane	119		118		69-130	1		30
1,1,1,2-Tetrachloroethane	97		96		70-130	1		30
Bromobenzene	98		98		70-130	0		30
n-Butylbenzene	112		109		70-130	3		30
sec-Butylbenzene	109		105		70-130	4		30
tert-Butylbenzene	105		102		70-130	3		30
o-Chlorotoluene	128		126		70-130	2		30
p-Chlorotoluene	116		113		70-130	3		30
1,2-Dibromo-3-chloropropane	96		97		68-130	1		30
Hexachlorobutadiene	95		92		67-130	3		30
Isopropylbenzene	109		106		70-130	3		30
p-Isopropyltoluene	105		102		70-130	3		30
Naphthalene	103		104		70-130	1		30
Acrylonitrile	**140**	Q	**141**	Q	70-130	1		30
n-Propylbenzene	114		110		70-130	4		30
1,2,3-Trichlorobenzene	98		98		70-130	0		30
1,2,4-Trichlorobenzene	98		99		70-130	1		30
1,3,5-Trimethylbenzene	107		105		70-130	2		30
1,2,4-Trimethylbenzene	106		103		70-130	3		30
1,4-Dioxane	93		95		65-136	2		30
p-Diethylbenzene	105		103		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-12 Batch: WG1502600-3 WG1502600-4								
p-Ethyltoluene	108		106		70-130	2		30
1,2,4,5-Tetramethylbenzene	106		105		70-130	1		30
Ethyl ether	114		114		67-130	0		30
trans-1,4-Dichloro-2-butene	130		129		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		105		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	115		115		70-130
Dibromofluoromethane	92		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06-07 Batch: WG1502603-3 WG1502603-4								
Methylene chloride	104		104		70-130	0		30
1,1-Dichloroethane	121		119		70-130	2		30
Chloroform	102		101		70-130	1		30
Carbon tetrachloride	91		87		70-130	4		30
1,2-Dichloropropane	124		123		70-130	1		30
Dibromochloromethane	98		96		70-130	2		30
1,1,2-Trichloroethane	113		113		70-130	0		30
Tetrachloroethene	91		87		70-130	4		30
Chlorobenzene	100		98		70-130	2		30
Trichlorofluoromethane	**64**	Q	**62**	Q	70-139	3		30
1,2-Dichloroethane	109		109		70-130	0		30
1,1,1-Trichloroethane	93		90		70-130	3		30
Bromodichloromethane	99		98		70-130	1		30
trans-1,3-Dichloropropene	116		115		70-130	1		30
cis-1,3-Dichloropropene	111		110		70-130	1		30
1,1-Dichloropropene	108		105		70-130	3		30
Bromoform	93		94		70-130	1		30
1,1,2,2-Tetrachloroethane	120		119		70-130	1		30
Benzene	108		107		70-130	1		30
Toluene	110		107		70-130	3		30
Ethylbenzene	107		104		70-130	3		30
Chloromethane	**151**	Q	**149**	Q	52-130	1		30
Bromomethane	80		76		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06-07 Batch: WG1502603-3 WG1502603-4								
Vinyl chloride	102		98		67-130	4		30
Chloroethane	79		77		50-151	3		30
1,1-Dichloroethene	102		98		65-135	4		30
trans-1,2-Dichloroethene	101		99		70-130	2		30
Trichloroethene	94		92		70-130	2		30
1,2-Dichlorobenzene	99		98		70-130	1		30
1,3-Dichlorobenzene	100		98		70-130	2		30
1,4-Dichlorobenzene	100		98		70-130	2		30
Methyl tert butyl ether	111		111		66-130	0		30
p/m-Xylene	99		96		70-130	3		30
o-Xylene	99		97		70-130	2		30
cis-1,2-Dichloroethene	102		100		70-130	2		30
Dibromomethane	98		97		70-130	1		30
Styrene	102		99		70-130	3		30
Dichlorodifluoromethane	110		105		30-146	5		30
Acetone	**164**	Q	**160**	Q	54-140	2		30
Carbon disulfide	110		107		59-130	3		30
2-Butanone	**151**	Q	**148**	Q	70-130	2		30
Vinyl acetate	**146**	Q	**147**	Q	70-130	1		30
4-Methyl-2-pentanone	129		127		70-130	2		30
1,2,3-Trichloropropane	120		121		68-130	1		30
2-Hexanone	**142**	Q	**142**	Q	70-130	0		30
Bromochloromethane	90		90		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06-07 Batch: WG1502603-3 WG1502603-4								
2,2-Dichloropropane	103		100		70-130	3		30
1,2-Dibromoethane	105		103		70-130	2		30
1,3-Dichloropropane	119		118		69-130	1		30
1,1,1,2-Tetrachloroethane	97		96		70-130	1		30
Bromobenzene	98		98		70-130	0		30
n-Butylbenzene	112		109		70-130	3		30
sec-Butylbenzene	109		105		70-130	4		30
tert-Butylbenzene	105		102		70-130	3		30
o-Chlorotoluene	128		126		70-130	2		30
p-Chlorotoluene	116		113		70-130	3		30
1,2-Dibromo-3-chloropropane	96		97		68-130	1		30
Hexachlorobutadiene	95		92		67-130	3		30
Isopropylbenzene	109		106		70-130	3		30
p-Isopropyltoluene	105		102		70-130	3		30
Naphthalene	103		104		70-130	1		30
Acrylonitrile	**140**	Q	**141**	Q	70-130	1		30
n-Propylbenzene	114		110		70-130	4		30
1,2,3-Trichlorobenzene	98		98		70-130	0		30
1,2,4-Trichlorobenzene	98		99		70-130	1		30
1,3,5-Trimethylbenzene	107		105		70-130	2		30
1,2,4-Trimethylbenzene	106		103		70-130	3		30
1,4-Dioxane	93		95		65-136	2		30
p-Diethylbenzene	105		103		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06-07 Batch: WG1502603-3 WG1502603-4								
p-Ethyltoluene	108		106		70-130	2		30
1,2,4,5-Tetramethylbenzene	106		105		70-130	1		30
Ethyl ether	114		114		67-130	0		30
trans-1,4-Dichloro-2-butene	130		129		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		105		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	115		115		70-130
Dibromofluoromethane	92		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1503429-3 WG1503429-4								
Methylene chloride	97		96		70-130	1		30
1,1-Dichloroethane	113		108		70-130	5		30
Chloroform	109		106		70-130	3		30
Carbon tetrachloride	118		113		70-130	4		30
1,2-Dichloropropane	113		106		70-130	6		30
Dibromochloromethane	120		120		70-130	0		30
1,1,2-Trichloroethane	117		113		70-130	3		30
Tetrachloroethene	120		114		70-130	5		30
Chlorobenzene	110		106		70-130	4		30
Trichlorofluoromethane	119		117		70-139	2		30
1,2-Dichloroethane	110		107		70-130	3		30
1,1,1-Trichloroethane	112		107		70-130	5		30
Bromodichloromethane	115		113		70-130	2		30
trans-1,3-Dichloropropene	119		117		70-130	2		30
cis-1,3-Dichloropropene	117		115		70-130	2		30
1,1-Dichloropropene	117		112		70-130	4		30
Bromoform	114		115		70-130	1		30
1,1,2,2-Tetrachloroethane	114		115		70-130	1		30
Benzene	111		106		70-130	5		30
Toluene	112		108		70-130	4		30
Ethylbenzene	113		108		70-130	5		30
Chloromethane	**136**	Q	125		52-130	8		30
Bromomethane	104		106		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1503429-3 WG1503429-4								
Vinyl chloride	129		125		67-130	3		30
Chloroethane	122		120		50-151	2		30
1,1-Dichloroethene	112		108		65-135	4		30
trans-1,2-Dichloroethene	114		109		70-130	4		30
Trichloroethene	113		108		70-130	5		30
1,2-Dichlorobenzene	111		110		70-130	1		30
1,3-Dichlorobenzene	112		110		70-130	2		30
1,4-Dichlorobenzene	108		106		70-130	2		30
Methyl tert butyl ether	107		106		66-130	1		30
p/m-Xylene	114		111		70-130	3		30
o-Xylene	114		109		70-130	4		30
cis-1,2-Dichloroethene	112		110		70-130	2		30
Dibromomethane	116		112		70-130	4		30
Styrene	116		114		70-130	2		30
Dichlorodifluoromethane	**178**	Q	**168**	Q	30-146	6		30
Acetone	93		90		54-140	3		30
Carbon disulfide	107		103		59-130	4		30
2-Butanone	92		95		70-130	3		30
Vinyl acetate	128		125		70-130	2		30
4-Methyl-2-pentanone	110		110		70-130	0		30
1,2,3-Trichloropropane	109		108		68-130	1		30
2-Hexanone	100		101		70-130	1		30
Bromochloromethane	115		114		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1503429-3 WG1503429-4								
2,2-Dichloropropane	115		109		70-130	5		30
1,2-Dibromoethane	107		106		70-130	1		30
1,3-Dichloropropane	112		110		69-130	2		30
1,1,1,2-Tetrachloroethane	115		114		70-130	1		30
Bromobenzene	111		110		70-130	1		30
n-Butylbenzene	115		110		70-130	4		30
sec-Butylbenzene	114		110		70-130	4		30
tert-Butylbenzene	115		110		70-130	4		30
o-Chlorotoluene	93		90		70-130	3		30
p-Chlorotoluene	111		107		70-130	4		30
1,2-Dibromo-3-chloropropane	98		99		68-130	1		30
Hexachlorobutadiene	111		110		67-130	1		30
Isopropylbenzene	114		110		70-130	4		30
p-Isopropyltoluene	116		112		70-130	4		30
Naphthalene	108		111		70-130	3		30
Acrylonitrile	104		98		70-130	6		30
n-Propylbenzene	114		109		70-130	4		30
1,2,3-Trichlorobenzene	111		112		70-130	1		30
1,2,4-Trichlorobenzene	112		113		70-130	1		30
1,3,5-Trimethylbenzene	114		110		70-130	4		30
1,2,4-Trimethylbenzene	112		108		70-130	4		30
1,4-Dioxane	85		93		65-136	9		30
p-Diethylbenzene	116		112		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1503429-3 WG1503429-4								
p-Ethyltoluene	112		109		70-130	3		30
1,2,4,5-Tetramethylbenzene	115		113		70-130	2		30
Ethyl ether	109		108		67-130	1		30
trans-1,4-Dichloro-2-butene	122		118		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		101		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	100		98		70-130
Dibromofluoromethane	103		101		70-130

SEMIVOLATILES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-01
Client ID: 2-B2 (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 08:15
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/21 11:03
Analyst: SZ
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	19	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	370		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-01 Date Collected: 05/18/21 08:15

Client ID: 2-B2 (9.5-10) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	180		ug/kg	110	20.	1
Benzo(a)pyrene	180		ug/kg	150	45.	1
Benzo(b)fluoranthene	230		ug/kg	110	31.	1
Benzo(k)fluoranthene	65	J	ug/kg	110	29.	1
Chrysene	180		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	49	J	ug/kg	110	36.	1
Benzo(ghi)perylene	110	J	ug/kg	150	22.	1
Fluorene	21	J	ug/kg	180	18.	1
Phenanthrene	200		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	25	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	150	25.	1
Pyrene	370		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-01 Date Collected: 05/18/21 08:15

Client ID: 2-B2 (9.5-10) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	19	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	97		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-02
Client ID: 1-B2 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 08:30
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/21 15:25
Analyst: SZ
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	77	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	1600		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	170	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-02 Date Collected: 05/18/21 08:30

Client ID: 1-B2 (7.5-8.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	1000		ug/kg	110	20.	1
Benzo(a)pyrene	1000		ug/kg	150	44.	1
Benzo(b)fluoranthene	1200		ug/kg	110	31.	1
Benzo(k)fluoranthene	400		ug/kg	110	29.	1
Chrysene	970		ug/kg	110	19.	1
Acenaphthylene	76	J	ug/kg	150	28.	1
Anthracene	280		ug/kg	110	36.	1
Benzo(ghi)perylene	650		ug/kg	150	21.	1
Fluorene	97	J	ug/kg	180	18.	1
Phenanthrene	840		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	160		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	690		ug/kg	150	25.	1
Pyrene	1600		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	58	J	ug/kg	180	17.	1
2-Methylnaphthalene	36	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	40	J	ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	210	J	ug/kg	260	28.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-02 Date Collected: 05/18/21 08:30

Client ID: 1-B2 (7.5-8.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	67	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	91		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-03
Client ID: 4-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 09:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/21 15:46
Analyst: SZ
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	160		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	2100		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	85	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-03 Date Collected: 05/18/21 09:00

Client ID: 4-B2 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	1600		ug/kg	110	21.	1
Benzo(a)pyrene	1200		ug/kg	150	45.	1
Benzo(b)fluoranthene	1200		ug/kg	110	31.	1
Benzo(k)fluoranthene	520		ug/kg	110	29.	1
Chrysene	1600		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	670		ug/kg	110	36.	1
Benzo(ghi)perylene	690		ug/kg	150	22.	1
Fluorene	200		ug/kg	180	18.	1
Phenanthrene	2000		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	170		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	650		ug/kg	150	26.	1
Pyrene	2600		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	42	J	ug/kg	180	17.	1
2-Methylnaphthalene	46	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-03 Date Collected: 05/18/21 09:00

Client ID: 4-B2 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	56	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	76		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-04
Client ID: 5-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 09:45
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/21 16:08
Analyst: SZ
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	70	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	210	20.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	41.	1
2,6-Dinitrotoluene	ND		ug/kg	210	35.	1
Fluoranthene	860		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	160	J	ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	73	J	ug/kg	210	71.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	70.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-04 Date Collected: 05/18/21 09:45

Client ID: 5-B1 (8.5-9) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	43.	1
Benzo(a)anthracene	480		ug/kg	120	23.	1
Benzo(a)pyrene	370		ug/kg	160	50.	1
Benzo(b)fluoranthene	470		ug/kg	120	35.	1
Benzo(k)fluoranthene	130		ug/kg	120	33.	1
Chrysene	450		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	190		ug/kg	120	40.	1
Benzo(ghi)perylene	220		ug/kg	160	24.	1
Fluorene	130	J	ug/kg	210	20.	1
Phenanthrene	720		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	64	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	230		ug/kg	160	29.	1
Pyrene	820		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	55	J	ug/kg	210	20.	1
2-Methylnaphthalene	45	J	ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	68.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	40	J	ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	230	J	ug/kg	300	32.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-04 Date Collected: 05/18/21 09:45

Client ID: 5-B1 (8.5-9) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	63.	1
Carbazole	46	J	ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	63		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05
Client ID: 10-B5 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 10:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/21 16:30
Analyst: SZ
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	870		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	10000	E	ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	580		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	470		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05 Date Collected: 05/18/21 10:00

Client ID: 10-B5 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	6900		ug/kg	120	24.	1
Benzo(a)pyrene	6000		ug/kg	170	51.	1
Benzo(b)fluoranthene	7800		ug/kg	120	35.	1
Benzo(k)fluoranthene	1900		ug/kg	120	34.	1
Chrysene	6500		ug/kg	120	22.	1
Acenaphthylene	240		ug/kg	170	32.	1
Anthracene	3400		ug/kg	120	41.	1
Benzo(ghi)perylene	4100		ug/kg	170	25.	1
Fluorene	1200		ug/kg	210	20.	1
Phenanthrene	8900	E	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	1200		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	4600		ug/kg	170	29.	1
Pyrene	10000	E	ug/kg	120	21.	1
Biphenyl	110	J	ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	530		ug/kg	210	20.	1
2-Methylnaphthalene	290		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	79.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	59	J	ug/kg	300	33.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05 Date Collected: 05/18/21 10:00

Client ID: 10-B5 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	650		ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	103		23-120
2-Fluorobiphenyl	100		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	108		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05 D
Client ID: 10-B5 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 14:52
Analyst: IM
Percent Solids: 79%

Date Collected: 05/18/21 10:00
Date Received: 05/19/21
Field Prep: Not Specified

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	15000		ug/kg	630	120	5
Phenanthrene	13000		ug/kg	630	130	5
Pyrene	14000		ug/kg	630	100	5

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-06
Client ID: 6-B1 (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 10:30
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/21 16:52
Analyst: SZ
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	72	J	ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	230		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	26	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	150	J	ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-06 Date Collected: 05/18/21 10:30

Client ID: 6-B1 (5.5-6) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	140		ug/kg	110	20.	1
Benzo(a)pyrene	150		ug/kg	150	44.	1
Benzo(b)fluoranthene	180		ug/kg	110	31.	1
Benzo(k)fluoranthene	74	J	ug/kg	110	29.	1
Chrysene	170		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	40	J	ug/kg	110	36.	1
Benzo(ghi)perylene	86	J	ug/kg	150	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	160		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	26	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	76	J	ug/kg	150	25.	1
Pyrene	240		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-06 Date Collected: 05/18/21 10:30

Client ID: 6-B1 (5.5-6) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	18	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	46		10-136
4-Terphenyl-d14	60		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-07
Client ID: 7-B4 (6-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 11:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/21 17:13
Analyst: SZ
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	39	J	ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	53	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-07 Date Collected: 05/18/21 11:00

Client ID: 7-B4 (6-6.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	36	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	52	J	ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	45	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	23	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	30	J	ug/kg	160	28.	1
Pyrene	59	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-07 Date Collected: 05/18/21 11:00

Client ID: 7-B4 (6-6.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	112		30-120
2,4,6-Tribromophenol	46		10-136
4-Terphenyl-d14	108		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-08
Client ID: 10-B3 (7-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 12:45
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 03:28
Analyst: SZ
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 19:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	130	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	1200		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	95	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-08 Date Collected: 05/18/21 12:45

Client ID: 10-B3 (7-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	630		ug/kg	120	22.	1
Benzo(a)pyrene	570		ug/kg	160	49.	1
Benzo(b)fluoranthene	640		ug/kg	120	34.	1
Benzo(k)fluoranthene	260		ug/kg	120	32.	1
Chrysene	580		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	220		ug/kg	120	39.	1
Benzo(ghi)perylene	340		ug/kg	160	24.	1
Fluorene	110	J	ug/kg	200	19.	1
Phenanthrene	1000		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	72	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	350		ug/kg	160	28.	1
Pyrene	1200		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	65	J	ug/kg	200	19.	1
2-Methylnaphthalene	32	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-08 Date Collected: 05/18/21 12:45

Client ID: 10-B3 (7-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	94	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	89		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-09
Client ID: 8-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 13:15
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 03:06
Analyst: SZ
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 19:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	24	J	ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	600		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	44	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-09 Date Collected: 05/18/21 13:15

Client ID: 8-B1 (7.5-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	330		ug/kg	110	20.	1
Benzo(a)pyrene	360		ug/kg	140	44.	1
Benzo(b)fluoranthene	400		ug/kg	110	30.	1
Benzo(k)fluoranthene	130		ug/kg	110	29.	1
Chrysene	330		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	85	J	ug/kg	110	35.	1
Benzo(ghi)perylene	230		ug/kg	140	21.	1
Fluorene	28	J	ug/kg	180	18.	1
Phenanthrene	330		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	49	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	230		ug/kg	140	25.	1
Pyrene	590		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	19	J	ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-09 Date Collected: 05/18/21 13:15

Client ID: 8-B1 (7.5-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	47	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	109		25-120
Phenol-d6	105		10-120
Nitrobenzene-d5	**122**	Q	23-120
2-Fluorobiphenyl	109		30-120
2,4,6-Tribromophenol	111		10-136
4-Terphenyl-d14	88		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10 D
Client ID: 8-B1 (14-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 13:30
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 15:31
Analyst: IM
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 19:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	5300	680	10
1,2,4-Trichlorobenzene	ND		ug/kg	6600	750	10
Hexachlorobenzene	ND		ug/kg	3900	740	10
Bis(2-chloroethyl)ether	ND		ug/kg	5900	890	10
2-Chloronaphthalene	ND		ug/kg	6600	650	10
1,2-Dichlorobenzene	ND		ug/kg	6600	1200	10
1,3-Dichlorobenzene	ND		ug/kg	6600	1100	10
1,4-Dichlorobenzene	ND		ug/kg	6600	1100	10
3,3'-Dichlorobenzidine	ND		ug/kg	6600	1800	10
2,4-Dinitrotoluene	ND		ug/kg	6600	1300	10
2,6-Dinitrotoluene	ND		ug/kg	6600	1100	10
Fluoranthene	3200	J	ug/kg	3900	760	10
4-Chlorophenyl phenyl ether	ND		ug/kg	6600	700	10
4-Bromophenyl phenyl ether	ND		ug/kg	6600	1000	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	7900	1100	10
Bis(2-chloroethoxy)methane	ND		ug/kg	7100	660	10
Hexachlorobutadiene	ND		ug/kg	6600	960	10
Hexachlorocyclopentadiene	ND		ug/kg	19000	6000	10
Hexachloroethane	ND		ug/kg	5300	1100	10
Isophorone	ND		ug/kg	5900	850	10
Naphthalene	1000	J	ug/kg	6600	800	10
Nitrobenzene	ND		ug/kg	5900	970	10
NDPA/DPA	3500	J	ug/kg	5300	750	10
n-Nitrosodi-n-propylamine	ND		ug/kg	6600	1000	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	6600	2300	10
Butyl benzyl phthalate	ND		ug/kg	6600	1600	10
Di-n-butylphthalate	ND		ug/kg	6600	1200	10
Di-n-octylphthalate	ND		ug/kg	6600	2200	10

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10 D Date Collected: 05/18/21 13:30

Client ID: 8-B1 (14-15) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	6600	610	10
Dimethyl phthalate	ND		ug/kg	6600	1400	10
Benzo(a)anthracene	1600	J	ug/kg	3900	740	10
Benzo(a)pyrene	1600	J	ug/kg	5300	1600	10
Benzo(b)fluoranthene	2100	J	ug/kg	3900	1100	10
Benzo(k)fluoranthene	ND		ug/kg	3900	1000	10
Chrysene	1500	J	ug/kg	3900	680	10
Acenaphthylene	ND		ug/kg	5300	1000	10
Anthracene	ND		ug/kg	3900	1300	10
Benzo(ghi)perylene	1100	J	ug/kg	5300	770	10
Fluorene	ND		ug/kg	6600	640	10
Phenanthrene	2200	J	ug/kg	3900	800	10
Dibenzo(a,h)anthracene	ND		ug/kg	3900	760	10
Indeno(1,2,3-cd)pyrene	1200	J	ug/kg	5300	920	10
Pyrene	3000	J	ug/kg	3900	650	10
Biphenyl	ND		ug/kg	15000	1500	10
4-Chloroaniline	2600	J	ug/kg	6600	1200	10
2-Nitroaniline	ND		ug/kg	6600	1300	10
3-Nitroaniline	ND		ug/kg	6600	1200	10
4-Nitroaniline	ND		ug/kg	6600	2700	10
Dibenzofuran	ND		ug/kg	6600	620	10
2-Methylnaphthalene	ND		ug/kg	7900	800	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	6600	690	10
Acetophenone	ND		ug/kg	6600	810	10
2,4,6-Trichlorophenol	ND		ug/kg	3900	1200	10
p-Chloro-m-cresol	ND		ug/kg	6600	980	10
2-Chlorophenol	ND		ug/kg	6600	780	10
2,4-Dichlorophenol	ND		ug/kg	5900	1000	10
2,4-Dimethylphenol	ND		ug/kg	6600	2200	10
2-Nitrophenol	ND		ug/kg	14000	2500	10
4-Nitrophenol	ND		ug/kg	9200	2700	10
2,4-Dinitrophenol	ND		ug/kg	32000	3100	10
4,6-Dinitro-o-cresol	ND		ug/kg	17000	3200	10
Pentachlorophenol	ND		ug/kg	5300	1400	10
Phenol	ND		ug/kg	6600	990	10
2-Methylphenol	ND		ug/kg	6600	1000	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	9500	1000	10

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10 D Date Collected: 05/18/21 13:30

Client ID: 8-B1 (14-15) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	6600	1300	10
Benzoic Acid	ND		ug/kg	21000	6700	10
Benzyl Alcohol	ND		ug/kg	6600	2000	10
Carbazole	ND		ug/kg	6600	640	10
1,4-Dioxane	ND		ug/kg	990	300	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	50		30-120
2,4,6-Tribromophenol	34		10-136
4-Terphenyl-d14	53		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-11
Client ID: 10-B4 (5-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 14:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 04:12
Analyst: SZ
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 19:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	470	61.	1
1,2,4-Trichlorobenzene	ND		ug/kg	590	67.	1
Hexachlorobenzene	ND		ug/kg	350	66.	1
Bis(2-chloroethyl)ether	ND		ug/kg	530	80.	1
2-Chloronaphthalene	ND		ug/kg	590	58.	1
1,2-Dichlorobenzene	ND		ug/kg	590	100	1
1,3-Dichlorobenzene	ND		ug/kg	590	100	1
1,4-Dichlorobenzene	ND		ug/kg	590	100	1
3,3'-Dichlorobenzidine	ND		ug/kg	590	160	1
2,4-Dinitrotoluene	ND		ug/kg	590	120	1
2,6-Dinitrotoluene	ND		ug/kg	590	100	1
Fluoranthene	210	J	ug/kg	350	68.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	590	63.	1
4-Bromophenyl phenyl ether	ND		ug/kg	590	90.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	710	100	1
Bis(2-chloroethoxy)methane	ND		ug/kg	640	59.	1
Hexachlorobutadiene	ND		ug/kg	590	86.	1
Hexachlorocyclopentadiene	ND		ug/kg	1700	530	1
Hexachloroethane	ND		ug/kg	470	95.	1
Isophorone	ND		ug/kg	530	76.	1
Naphthalene	ND		ug/kg	590	72.	1
Nitrobenzene	ND		ug/kg	530	87.	1
NDPA/DPA	ND		ug/kg	470	67.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	590	91.	1
Bis(2-ethylhexyl)phthalate	770		ug/kg	590	200	1
Butyl benzyl phthalate	ND		ug/kg	590	150	1
Di-n-butylphthalate	150	J	ug/kg	590	110	1
Di-n-octylphthalate	ND		ug/kg	590	200	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-11 Date Collected: 05/18/21 14:00

Client ID: 10-B4 (5-5.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	590	54.	1
Dimethyl phthalate	ND		ug/kg	590	120	1
Benzo(a)anthracene	130	J	ug/kg	350	66.	1
Benzo(a)pyrene	ND		ug/kg	470	140	1
Benzo(b)fluoranthene	160	J	ug/kg	350	99.	1
Benzo(k)fluoranthene	ND		ug/kg	350	94.	1
Chrysene	120	J	ug/kg	350	61.	1
Acenaphthylene	ND		ug/kg	470	91.	1
Anthracene	ND		ug/kg	350	110	1
Benzo(ghi)perylene	90	J	ug/kg	470	69.	1
Fluorene	ND		ug/kg	590	57.	1
Phenanthrene	170	J	ug/kg	350	72.	1
Dibenzo(a,h)anthracene	ND		ug/kg	350	68.	1
Indeno(1,2,3-cd)pyrene	88	J	ug/kg	470	82.	1
Pyrene	240	J	ug/kg	350	58.	1
Biphenyl	ND		ug/kg	1300	140	1
4-Chloroaniline	ND		ug/kg	590	110	1
2-Nitroaniline	ND		ug/kg	590	110	1
3-Nitroaniline	ND		ug/kg	590	110	1
4-Nitroaniline	ND		ug/kg	590	240	1
Dibenzofuran	ND		ug/kg	590	56.	1
2-Methylnaphthalene	ND		ug/kg	710	71.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	590	62.	1
Acetophenone	ND		ug/kg	590	73.	1
2,4,6-Trichlorophenol	ND		ug/kg	350	110	1
p-Chloro-m-cresol	ND		ug/kg	590	88.	1
2-Chlorophenol	ND		ug/kg	590	70.	1
2,4-Dichlorophenol	ND		ug/kg	530	95.	1
2,4-Dimethylphenol	ND		ug/kg	590	190	1
2-Nitrophenol	ND		ug/kg	1300	220	1
4-Nitrophenol	ND		ug/kg	820	240	1
2,4-Dinitrophenol	ND		ug/kg	2800	270	1
4,6-Dinitro-o-cresol	ND		ug/kg	1500	280	1
Pentachlorophenol	ND		ug/kg	470	130	1
Phenol	ND		ug/kg	590	89.	1
2-Methylphenol	ND		ug/kg	590	91.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	850	92.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-11 Date Collected: 05/18/21 14:00

Client ID: 10-B4 (5-5.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	590	110	1
Benzoic Acid	ND		ug/kg	1900	600	1
Benzyl Alcohol	ND		ug/kg	590	180	1
Carbazole	ND		ug/kg	590	57.	1
1,4-Dioxane	ND		ug/kg	88	27.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	77		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/30/21 13:14
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 05/29/21 21:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08-11 Batch: WG1505424-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	28.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	57.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	31.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/30/21 13:14
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 05/29/21 21:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08-11 Batch: WG1505424-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/30/21 13:14
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 05/29/21 21:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08-11 Batch: WG1505424-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	79		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/21 09:58
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1505496-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	29.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	25.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/21 09:58
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1505496-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	32.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: AVANT GARDNER
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/21 09:58
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1505496-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	78.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	96		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	103		23-120
2-Fluorobiphenyl	107		30-120
2,4,6-Tribromophenol	101		10-136
4-Terphenyl-d14	119		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-11 Batch: WG1505424-2 WG1505424-3								
Acenaphthene	77		78		31-137	1		50
1,2,4-Trichlorobenzene	65		73		38-107	12		50
Hexachlorobenzene	66		72		40-140	9		50
Bis(2-chloroethyl)ether	67		75		40-140	11		50
2-Chloronaphthalene	67		75		40-140	11		50
1,2-Dichlorobenzene	64		72		40-140	12		50
1,3-Dichlorobenzene	65		72		40-140	10		50
1,4-Dichlorobenzene	64		72		28-104	12		50
3,3'-Dichlorobenzidine	62		65		40-140	5		50
2,4-Dinitrotoluene	76		82		40-132	8		50
2,6-Dinitrotoluene	82		91		40-140	10		50
Fluoranthene	72		78		40-140	8		50
4-Chlorophenyl phenyl ether	69		76		40-140	10		50
4-Bromophenyl phenyl ether	68		76		40-140	11		50
Bis(2-chloroisopropyl)ether	67		75		40-140	11		50
Bis(2-chloroethoxy)methane	66		76		40-117	14		50
Hexachlorobutadiene	63		69		40-140	9		50
Hexachlorocyclopentadiene	78		87		40-140	11		50
Hexachloroethane	67		74		40-140	10		50
Isophorone	62		69		40-140	11		50
Naphthalene	66		73		40-140	10		50
Nitrobenzene	67		78		40-140	15		50
NDPA/DPA	74		79		36-157	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-11 Batch: WG1505424-2 WG1505424-3								
n-Nitrosodi-n-propylamine	65		72		32-121	10		50
Bis(2-ethylhexyl)phthalate	77		82		40-140	6		50
Butyl benzyl phthalate	85		90		40-140	6		50
Di-n-butylphthalate	74		79		40-140	7		50
Di-n-octylphthalate	79		85		40-140	7		50
Diethyl phthalate	71		77		40-140	8		50
Dimethyl phthalate	71		77		40-140	8		50
Benzo(a)anthracene	68		73		40-140	7		50
Benzo(a)pyrene	70		75		40-140	7		50
Benzo(b)fluoranthene	70		75		40-140	7		50
Benzo(k)fluoranthene	68		75		40-140	10		50
Chrysene	68		73		40-140	7		50
Acenaphthylene	66		72		40-140	9		50
Anthracene	72		77		40-140	7		50
Benzo(ghi)perylene	69		75		40-140	8		50
Fluorene	71		78		40-140	9		50
Phenanthrene	71		76		40-140	7		50
Dibenzo(a,h)anthracene	69		74		40-140	7		50
Indeno(1,2,3-cd)pyrene	70		76		40-140	8		50
Pyrene	72		77		35-142	7		50
Biphenyl	70		78		37-127	11		50
4-Chloroaniline	56		60		40-140	7		50
2-Nitroaniline	87		94		47-134	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-11 Batch: WG1505424-2 WG1505424-3								
3-Nitroaniline	74		81		26-129	9		50
4-Nitroaniline	82		89		41-125	8		50
Dibenzofuran	68		74		40-140	8		50
2-Methylnaphthalene	68		75		40-140	10		50
1,2,4,5-Tetrachlorobenzene	66		72		40-117	9		50
Acetophenone	65		72		14-144	10		50
2,4,6-Trichlorophenol	75		81		30-130	8		50
p-Chloro-m-cresol	73		80		26-103	9		50
2-Chlorophenol	74		82		25-102	10		50
2,4-Dichlorophenol	76		82		30-130	8		50
2,4-Dimethylphenol	71		78		30-130	9		50
2-Nitrophenol	98		108		30-130	10		50
4-Nitrophenol	77		83		11-114	8		50
2,4-Dinitrophenol	100		111		4-130	10		50
4,6-Dinitro-o-cresol	96		104		10-130	8		50
Pentachlorophenol	69		76		17-109	10		50
Phenol	70		79		26-90	12		50
2-Methylphenol	76		84		30-130.	10		50
3-Methylphenol/4-Methylphenol	76		83		30-130	9		50
2,4,5-Trichlorophenol	77		85		30-130	10		50
Benzoic Acid	62		75		10-110	19		50
Benzyl Alcohol	68		75		40-140	10		50
Carbazole	71		77		54-128	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-11 Batch: WG1505424-2 WG1505424-3								
1,4-Dioxane	48		54		40-140	12		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		80		25-120
Phenol-d6	70		78		10-120
Nitrobenzene-d5	67		77		23-120
2-Fluorobiphenyl	64		73		30-120
2,4,6-Tribromophenol	72		77		10-136
4-Terphenyl-d14	71		75		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1505496-2 WG1505496-3								
Acenaphthene	117		120		31-137	3		50
1,2,4-Trichlorobenzene	107		**108**	Q	38-107	1		50
Hexachlorobenzene	116		116		40-140	0		50
Bis(2-chloroethyl)ether	108		108		40-140	0		50
2-Chloronaphthalene	116		117		40-140	1		50
1,2-Dichlorobenzene	104		104		40-140	0		50
1,3-Dichlorobenzene	100		102		40-140	2		50
1,4-Dichlorobenzene	100		103		28-104	3		50
3,3'-Dichlorobenzidine	97		100		40-140	3		50
2,4-Dinitrotoluene	124		125		40-132	1		50
2,6-Dinitrotoluene	129		126		40-140	2		50
Fluoranthene	126		127		40-140	1		50
4-Chlorophenyl phenyl ether	121		121		40-140	0		50
4-Bromophenyl phenyl ether	124		124		40-140	0		50
Bis(2-chloroisopropyl)ether	95		95		40-140	0		50
Bis(2-chloroethoxy)methane	111		108		40-117	3		50
Hexachlorobutadiene	115		115		40-140	0		50
Hexachlorocyclopentadiene	127		127		40-140	0		50
Hexachloroethane	102		107		40-140	5		50
Isophorone	109		110		40-140	1		50
Naphthalene	111		111		40-140	0		50
Nitrobenzene	117		117		40-140	0		50
NDPA/DPA	124		123		36-157	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1505496-2 WG1505496-3								
n-Nitrosodi-n-propylamine	116		114		32-121	2		50
Bis(2-ethylhexyl)phthalate	139		**141**	Q	40-140	1		50
Butyl benzyl phthalate	**143**	Q	140		40-140	2		50
Di-n-butylphthalate	138		135		40-140	2		50
Di-n-octylphthalate	137		139		40-140	1		50
Diethyl phthalate	122		124		40-140	2		50
Dimethyl phthalate	129		128		40-140	1		50
Benzo(a)anthracene	118		123		40-140	4		50
Benzo(a)pyrene	129		132		40-140	2		50
Benzo(b)fluoranthene	126		128		40-140	2		50
Benzo(k)fluoranthene	122		125		40-140	2		50
Chrysene	118		121		40-140	3		50
Acenaphthylene	116		114		40-140	2		50
Anthracene	122		124		40-140	2		50
Benzo(ghi)perylene	120		124		40-140	3		50
Fluorene	118		121		40-140	3		50
Phenanthrene	118		119		40-140	1		50
Dibenzo(a,h)anthracene	127		133		40-140	5		50
Indeno(1,2,3-cd)pyrene	129		132		40-140	2		50
Pyrene	123		123		35-142	0		50
Biphenyl	117		114		37-127	3		50
4-Chloroaniline	83		88		40-140	6		50
2-Nitroaniline	125		123		47-134	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1505496-2 WG1505496-3								
3-Nitroaniline	92		97		26-129	5		50
4-Nitroaniline	109		110		41-125	1		50
Dibenzofuran	117		117		40-140	0		50
2-Methylnaphthalene	116		114		40-140	2		50
1,2,4,5-Tetrachlorobenzene	113		114		40-117	1		50
Acetophenone	106		107		14-144	1		50
2,4,6-Trichlorophenol	122		122		30-130	0		50
p-Chloro-m-cresol	**126**	Q	**124**	Q	26-103	2		50
2-Chlorophenol	**110**	Q	**112**	Q	25-102	2		50
2,4-Dichlorophenol	123		122		30-130	1		50
2,4-Dimethylphenol	123		122		30-130	1		50
2-Nitrophenol	120		119		30-130	1		50
4-Nitrophenol	113		**116**	Q	11-114	3		50
2,4-Dinitrophenol	127		122		4-130	4		50
4,6-Dinitro-o-cresol	**136**	Q	**134**	Q	10-130	1		50
Pentachlorophenol	**120**	Q	**122**	Q	17-109	2		50
Phenol	**115**	Q	**117**	Q	26-90	2		50
2-Methylphenol	115		116		30-130.	1		50
3-Methylphenol/4-Methylphenol	126		125		30-130	1		50
2,4,5-Trichlorophenol	128		125		30-130	2		50
Benzoic Acid	96		96		10-110	0		50
Benzyl Alcohol	114		112		40-140	2		50
Carbazole	119		120		54-128	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1505496-2 WG1505496-3								
1,4-Dioxane	71		71		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	110		112		25-120
Phenol-d6	103		103		10-120
Nitrobenzene-d5	113		111		23-120
2-Fluorobiphenyl	**121**	Q	117		30-120
2,4,6-Tribromophenol	118		116		10-136
4-Terphenyl-d14	**135**	Q	**133**	Q	18-120

METALS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10
Client ID: 8-B1 (14-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/18/21 13:30
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3640		mg/kg	11.1	3.00	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Antimony, Total	9.73		mg/kg	5.56	0.422	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Arsenic, Total	91.8		mg/kg	1.11	0.231	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Barium, Total	97.9		mg/kg	1.11	0.193	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Beryllium, Total	0.211	J	mg/kg	0.556	0.037	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Cadmium, Total	1.70		mg/kg	1.11	0.109	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Calcium, Total	7120		mg/kg	11.1	3.89	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Chromium, Total	44.0		mg/kg	1.11	0.107	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Cobalt, Total	6.18		mg/kg	2.22	0.184	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Copper, Total	18000		mg/kg	11.1	2.87	20	05/27/21 22:30	06/01/21 16:46	EPA 3050B	1,6010D	SV
Iron, Total	24100		mg/kg	5.56	1.00	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Lead, Total	480		mg/kg	5.56	0.298	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Magnesium, Total	1680		mg/kg	11.1	1.71	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Manganese, Total	370		mg/kg	1.11	0.177	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Mercury, Total	2.24		mg/kg	0.097	0.063	1	05/27/21 23:03	06/01/21 20:02	EPA 7471B	1,7471B	OU
Nickel, Total	30.3		mg/kg	2.78	0.269	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Potassium, Total	587		mg/kg	278	16.0	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Selenium, Total	3.71		mg/kg	2.22	0.287	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Silver, Total	1.01	J	mg/kg	1.11	0.314	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Sodium, Total	270		mg/kg	222	3.50	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	2.22	0.350	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Vanadium, Total	20.4		mg/kg	1.11	0.226	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Zinc, Total	547		mg/kg	5.56	0.326	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 10 Batch: WG1504136-1										
Aluminum, Total	1.70	J	mg/kg	4.00	1.08	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Arsenic, Total	0.108	J	mg/kg	0.400	0.083	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Barium, Total	ND		mg/kg	0.400	0.070	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Copper, Total	ND		mg/kg	0.400	0.103	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Iron, Total	ND		mg/kg	2.00	0.361	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Lead, Total	ND		mg/kg	2.00	0.107	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Potassium, Total	ND		mg/kg	100	5.76	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Silver, Total	ND		mg/kg	0.400	0.113	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Sodium, Total	ND		mg/kg	80.0	1.26	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 10 Batch: WG1504138-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/27/21 23:03	06/01/21 19:55	1,7471B	OU

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 Batch: WG1504136-2 SRM Lot Number: D109-540								
Aluminum, Total	66		-		50-150	-		
Antimony, Total	119		-		19-250	-		
Arsenic, Total	117		-		70-130	-		
Barium, Total	103		-		75-125	-		
Beryllium, Total	107		-		75-125	-		
Cadmium, Total	110		-		75-125	-		
Calcium, Total	99		-		73-128	-		
Chromium, Total	110		-		70-130	-		
Cobalt, Total	108		-		75-125	-		
Copper, Total	112		-		75-125	-		
Iron, Total	97		-		35-165	-		
Lead, Total	112		-		72-128	-		
Magnesium, Total	88		-		62-138	-		
Manganese, Total	108		-		74-126	-		
Nickel, Total	108		-		70-130	-		
Potassium, Total	87		-		59-141	-		
Selenium, Total	117		-		68-132	-		
Silver, Total	117		-		68-131	-		
Sodium, Total	96		-		35-165	-		
Thallium, Total	110		-		68-131	-		
Vanadium, Total	104		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 Batch: WG1504136-2 SRM Lot Number: D109-540					
Zinc, Total	112	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 10 Batch: WG1504138-2 SRM Lot Number: D109-540					
Mercury, Total	88	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1504136-3 QC Sample: L2126281-10 Client ID: 8-B1 (14-15)												
Aluminum, Total	3640	217	3790	**69**	Q	-	-		75-125	-		20
Antimony, Total	9.73	54.3	56.6	86		-	-		75-125	-		20
Arsenic, Total	91.8	13	79.7	**0**	Q	-	-		75-125	-		20
Barium, Total	97.9	217	201	**47**	Q	-	-		75-125	-		20
Beryllium, Total	0.211J	5.43	5.82	107		-	-		75-125	-		20
Cadmium, Total	1.70	5.54	7.24	100		-	-		75-125	-		20
Calcium, Total	7120	1090	6120	**0**	Q	-	-		75-125	-		20
Chromium, Total	44.0	21.7	45.8	**8**	Q	-	-		75-125	-		20
Cobalt, Total	6.18	54.3	62.6	104		-	-		75-125	-		20
Copper, Total	18000	27.2	14200	**0**	Q	-	-		75-125	-		20
Iron, Total	24100	109	25600	**1380**	Q	-	-		75-125	-		20
Lead, Total	480	55.4	417	**0**	Q	-	-		75-125	-		20
Magnesium, Total	1680	1090	2140	**42**	Q	-	-		75-125	-		20
Manganese, Total	370	54.3	466	**177**	Q	-	-		75-125	-		20
Nickel, Total	30.3	54.3	78.0	88		-	-		75-125	-		20
Potassium, Total	587	1090	1610	94		-	-		75-125	-		20
Selenium, Total	3.71	13	17.4	105		-	-		75-125	-		20
Silver, Total	1.01J	32.6	34.4	106		-	-		75-125	-		20
Sodium, Total	270	1090	1320	97		-	-		75-125	-		20
Thallium, Total	ND	13	5.53	**42**	Q	-	-		75-125	-		20
Vanadium, Total	20.4	54.3	71.5	94		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1504136-3 QC Sample: L2126281-10 Client ID: 8-B1 (14-15)										
Zinc, Total	547	54.3	446	**0**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1504138-3 QC Sample: L2126281-10 Client ID: 8-B1 (14-15)										
Mercury, Total	2.24	0.199	2.87	**316**	Q	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1504136-4 QC Sample: L2126281-10 Client ID: 8-B1 (14-15)						
Aluminum, Total	3640	2750	mg/kg	**28**	Q	20
Antimony, Total	9.73	11.3	mg/kg	15		20
Arsenic, Total	91.8	49.6	mg/kg	**60**	Q	20
Barium, Total	97.9	62.6	mg/kg	**44**	Q	20
Beryllium, Total	0.211J	0.118J	mg/kg	NC		20
Cadmium, Total	1.70	1.16	mg/kg	**38**	Q	20
Calcium, Total	7120	3890	mg/kg	**59**	Q	20
Chromium, Total	44.0	19.0	mg/kg	**79**	Q	20
Cobalt, Total	6.18	3.81	mg/kg	**47**	Q	20
Iron, Total	24100	18200	mg/kg	**28**	Q	20
Lead, Total	480	363	mg/kg	**28**	Q	20
Magnesium, Total	1680	1020	mg/kg	**49**	Q	20
Manganese, Total	370	204	mg/kg	**58**	Q	20
Nickel, Total	30.3	13.7	mg/kg	**75**	Q	20
Potassium, Total	587	501	mg/kg	16		20
Selenium, Total	3.71	1.92J	mg/kg	NC		20
Silver, Total	1.01J	0.481J	mg/kg	NC		20
Sodium, Total	270	213J	mg/kg	NC		20
Thallium, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1504136-4 QC Sample: L2126281-10 Client ID: 8-B1 (14-15)						
Vanadium, Total	20.4	11.7	mg/kg	**54**	Q	20
Zinc, Total	547	357	mg/kg	**42**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1504136-4 QC Sample: L2126281-10 Client ID: 8-B1 (14-15)						
Copper, Total	18000	21500	mg/kg	18		20
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1504138-4 QC Sample: L2126281-10 Client ID: 8-B1 (14-15)						
Mercury, Total	2.24	3.08	mg/kg	**32**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-01
Client ID: 2-B2 (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 08:15
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-02
Client ID: 1-B2 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 08:30
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-03
Client ID: 4-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 09:00
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-04
Client ID: 5-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 09:45
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.5		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05
Client ID: 10-B5 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 10:00
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.2		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-06
Client ID: 6-B1 (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 10:30
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.2		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-07
Client ID: 7-B4 (6-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 11:00
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.2		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-08
Client ID: 10-B3 (7-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 12:45
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.2		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-09
Client ID: 8-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 13:15
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10
Client ID: 8-B1 (14-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 13:30
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.8		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-11
Client ID: 10-B4 (5-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 14:00
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.1		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-12
Client ID: 10-B4 (18-18.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 15:00
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	25.5		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1501382-1 QC Sample: L2126064-06 Client ID: DUP Sample						
Solids, Total	77.0	77.9	%	1		20

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126281-01A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-01B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-01C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-01D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-01E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-01X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-01Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-01Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-02A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-02B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-02C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-02D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-02E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-02X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-02Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-02Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-03A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-03B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-03C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-03D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-03E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-03X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-03Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126281-03Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-04A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-04B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-04C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-04D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-04E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-04X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-04Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-04Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-05A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2126281-05B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2126281-05C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2126281-05D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-05E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-05X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2126281-05Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2126281-05Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2126281-06A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-06B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-06C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-06D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-06E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-06X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-06Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-06Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-07A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-07B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-07C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126281-07D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-07E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-07X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-07Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-07Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-08A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-08B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-08C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-08D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-08E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-08X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-08Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-08Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-09A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-09B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-09C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-09D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-09E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-09X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-09Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-09Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-10A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-10B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-10C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-10D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-10E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126281-10F	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-10X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-10Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:41	NYTCL-8260HLW(14)
L2126281-10Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:41	NYTCL-8260HLW(14)
L2126281-11A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-11B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-11C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-11D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-11E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-11X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-11Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:41	NYTCL-8260HLW(14)
L2126281-11Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:41	NYTCL-8260HLW(14)
L2126281-12A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-12B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-12C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-12D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-12X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-12Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:41	NYTCL-8260HLW(14)
L2126281-12Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:41	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	AVANT GARDNER	**Lab Number:**	L2126281
Project Number:	17244793	**Report Date:**	06/11/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2126281
Project Number:	17244793	**Report Date:**	06/11/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2126281
Project Number:	17244793	**Report Date:**	06/11/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Project Name:	AVANT GARDNER	**Lab Number:**	L2126281
Project Number:	17244793	**Report Date:**	06/11/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 5/20/21

ALPHA Job #: L2136281

Client Information
Client: PSG (Partner)
Address: 611 Industrial Way W
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLENTE@partnergsi.com

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project #: 17243313
(Use Project name as Project #): [X]
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time
Standard: [X] Due Date:
Rush (only if pre approved): [ ] # of Days:

Deliverables
- [ ] ASP-A
- [ ] ASP-B
- [X] EQuIS (1 File)
- [X] EQuIS (4 File)
- [ ] Other

Regulatory Requirement
- [X] NY TOGS
- [ ] NY Part 375
- [X] AWQ Standards
- [X] NY CP-51
- [X] NY Restricted Use
- [ ] Other
- [X] NY Unrestricted Use
- [ ] NYC Sewer Discharge

Billing Information
- [X] Same as Client Info

PO #: 17243313

Disposal Site Information
Please identify below location of applicable disposal facilities.

Disposal Facility:
- [ ] NJ
- [ ] NY
- [ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

8-B1 (14-15) had a purple unknown free product.

Please specify Metals or TAL.

TAL

ANALYSIS

Sample Filtration
- [ ] Done
- [ ] Lab to do

Preservation
- [ ] Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs (8260)	SVOCs (8270)	TAL metals	Total Bottle	Sample Specific Comments
216281-01	2-B2 (9.5-10)	5-18	815	S	AH	X	X			
-02	1-B2 (7.5-8.5)	5-18	830	S	AH	X	X			
-03	4-B2 (6.5-7)	5-18	900	S	AH	X	X			
-04	5-B1 (8.5-9)	5-18	945	S	AH	X	X			
-05	10-B5 (6.5-7)	5-18	1000	S	AH	X	X			
-06	6-B1 (5.5-6)	5-18	1030	S	AH	X	X			
-07	7-B4 (6-6.5)	5-18	1100	S	AH	X	X			
-08	10-B3 (7-8)	5-18	1245	S	AH	X	X			
-09	8-B1 (7.5-8)	5-18	1315	S	AH	X	X			
-10	8-B1 (14-15)	5-18	1330	S	AH	X	X	X		unknown product (oil-like)

Container Type: E A A
Preservative: A A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5-18 1600		5/19/21 12:00
	5/19/21 1656		5/19/21 0000
	5/20/21 0030		5/20/21 00:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 5/20/21

ALPHA Job #: L2126281

Client Information
Client: PSG (Partner)
Address: 611 Industrial Way W
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLENT@partnersinc.com

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project #: 17243313
(Use Project name as Project #): X
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved): ☐
Due Date:
# of Days:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables
☐ ASP-A ☐ ASP-B
☑ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other

Regulatory Requirement
☒ NY TOGS ☐ NY Part 375
☒ AWQ Standards ☒ NY CP-51
☒ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO # 17243313

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC (8260)	SVOC (8270)	Sample Specific Comments	Total Bottle
26281-11	10-B4(5-5.5)	5-18	1400	S	AH	X	X		
-12	10-B4(18-18.5)	5-18	1500	S	AH	X			

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	E	A
Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	5/18 1600		5/18/21 12:00
	5/19/21 18:55		5/19/21 20:00
	5/20/21 0035		5/20/21 00:17

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

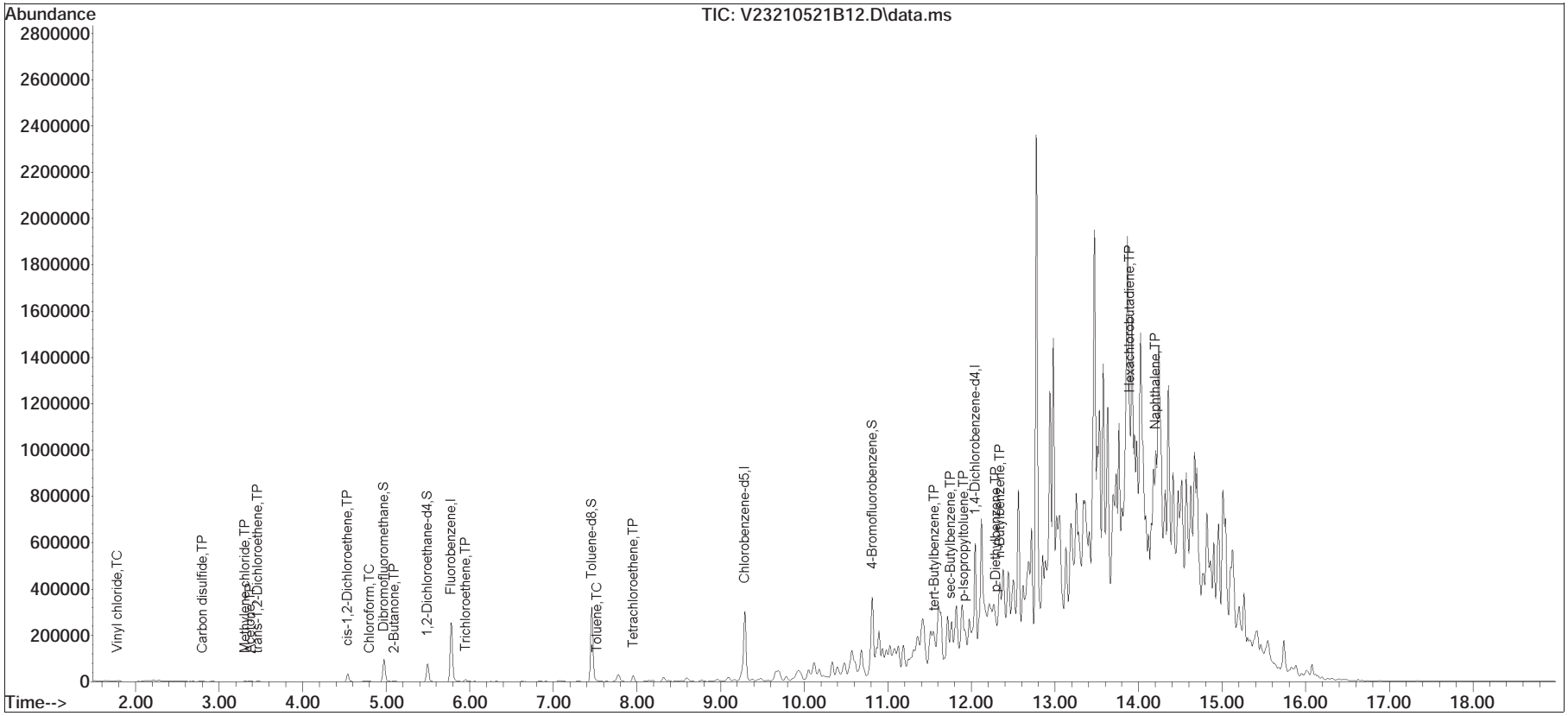
Form No: 01-25 HC (rev. 30-Sept-2013)

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\210521B\
Data File : V23210521B12.D
Acq On : 21 May 2021 07:04 pm
Operator : VOA123:NLK
Sample : L2126281-07,31H,5.42,5,0.100,,X,PRI
Misc : WG1502603,ICAL17933
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 14:03:53 2021
Quant Method : I:\VOLATILES\VOA123\2021\210521B\V123_210512N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 13 08:11:37 2021
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox10521B\V23210521B01.D•



ANALYTICAL REPORT

Lab Number:	L2126605
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER
Project Number:	17244793
Report Date:	06/11/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2126605-01	FIELD BLANK	WATER	140 STEWART AVE., BROOKLYN, NY	05/19/21 14:00	05/20/21
L2126605-02	10-B1 (8.5-9)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 08:00	05/20/21
L2126605-03	10-B1 (22-22.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 08:40	05/20/21
L2126605-04	DUP	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 08:00	05/20/21
L2126605-05	7-B2 (6.5-7)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 09:45	05/20/21
L2126605-06	7-B2 (14-14.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 10:00	05/20/21
L2126605-07	7-B1 (9-10)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 11:15	05/20/21
L2126605-08	7-B1 (27-27.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 11:50	05/20/21
L2126605-09	7-B3 (10.5-11.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 13:20	05/20/21
L2126605-10	3-B1 (7.5-8)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 14:00	05/20/21
L2126605-11	3-B1 (17.5-18)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 14:45	05/20/21

Project Name:	AVANT GARDNER	**Lab Number:**	L2126605
Project Number:	17244793	**Report Date:**	06/11/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Case Narrative (continued)

Report Revision

June 11, 2021: The project number has been amended.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2126605-09: The sample was analyzed as a High Level Methanol in order to quantitate results within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to sample non-homogeneity.

Semivolatile Organics

The WG1505612-6/-7 MS/MSD recoveries, performed on L2126605-02, are below the acceptance criteria for hexachlorocyclopentadiene (MS 0%), 2,4-dinitrophenol (0%/0%), 4,6-dinitro-o-cresol (0%/0%), and benzoic acid (0%/0%) due to the concentrations of these compounds in the MS/MSD falling below the reported detection limits.

Perfluorinated Alkyl Acids by Isotope Dilution

L2126605-01: The analysis could not be performed due to laboratory error (the sample was not spiked with Extracted Internal Standards) and no sample remains for re-extraction.
L2126605-05 and -07: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

Pesticides

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Case Narrative (continued)

L2126605-05: The internal standard (IS) response for 1-bromo-2-nitrobenzene (8277%) was above the acceptance criteria on column A/B; however, the sample was not re-analyzed due to obvious interferences. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (20%) and decachlorobiphenyl (0%) due to interference with the Internal Standard.
L2126605-07: The internal standard (IS) response for 1-bromo-2-nitrobenzene (2142%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (13%) and decachlorobiphenyl (1%) due to interference with the Internal Standard.

Total Metals
L2126605-05, -07, and -10: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 06/11/21

ORGANICS

VOLATILES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-02
Client ID: 10-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 08:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/21 09:25
Analyst: JC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	1.9	1
1,1-Dichloroethane	0.12	J	ug/kg	0.85	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.85	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.85	0.11	1
Dibromochloromethane	ND		ug/kg	0.85	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.85	0.23	1
Tetrachloroethene	1.8		ug/kg	0.42	0.17	1
Chlorobenzene	ND		ug/kg	0.42	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.59	1
1,2-Dichloroethane	ND		ug/kg	0.85	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	0.14	1
Bromodichloromethane	ND		ug/kg	0.42	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	0.42	0.13	1
1,1-Dichloropropene	ND		ug/kg	0.42	0.14	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	0.14	1
Benzene	0.19	J	ug/kg	0.42	0.14	1
Toluene	ND		ug/kg	0.85	0.46	1
Ethylbenzene	ND		ug/kg	0.85	0.12	1
Chloromethane	ND		ug/kg	3.4	0.79	1
Bromomethane	ND		ug/kg	1.7	0.49	1
Vinyl chloride	ND		ug/kg	0.85	0.28	1
Chloroethane	ND		ug/kg	1.7	0.38	1
1,1-Dichloroethene	ND		ug/kg	0.85	0.20	1
trans-1,2-Dichloroethene	0.38	J	ug/kg	1.3	0.12	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-02 Date Collected: 05/19/21 08:00

Client ID: 10-B1 (8.5-9) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.72		ug/kg	0.42	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.48	1
o-Xylene	ND		ug/kg	0.85	0.25	1
Xylenes, Total	ND		ug/kg	0.85	0.25	1
cis-1,2-Dichloroethene	0.94		ug/kg	0.85	0.15	1
1,2-Dichloroethene, Total	1.3	J	ug/kg	0.85	0.12	1
Dibromomethane	ND		ug/kg	1.7	0.20	1
Styrene	ND		ug/kg	0.85	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.5	0.78	1
Acetone	12		ug/kg	8.5	4.1	1
Carbon disulfide	ND		ug/kg	8.5	3.9	1
2-Butanone	ND		ug/kg	8.5	1.9	1
Vinyl acetate	ND		ug/kg	8.5	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.5	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.5	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.17	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.85	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.42	0.11	1
Bromobenzene	ND		ug/kg	1.7	0.12	1
n-Butylbenzene	ND		ug/kg	0.85	0.14	1
sec-Butylbenzene	ND		ug/kg	0.85	0.12	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.85	1
Hexachlorobutadiene	ND		ug/kg	3.4	0.14	1
Isopropylbenzene	ND		ug/kg	0.85	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.85	0.09	1
Naphthalene	ND		ug/kg	3.4	0.55	1
Acrylonitrile	ND		ug/kg	3.4	0.98	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-02 Date Collected: 05/19/21 08:00

Client ID: 10-B1 (8.5-9) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.85	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.28	1
1,4-Dioxane	ND		ug/kg	68	30.	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.33	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.16	1
Ethyl ether	ND		ug/kg	1.7	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.2	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-03 Date Collected: 05/19/21 08:40
Client ID: 10-B1 (22-22.5) Date Received: 05/20/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/28/21 19:57
Analyst: MKS
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-03 Date Collected: 05/19/21 08:40

Client ID: 10-B1 (22-22.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.66	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-03 Date Collected: 05/19/21 08:40

Client ID: 10-B1 (22-22.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	81	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-04 Date Collected: 05/19/21 08:00
Client ID: DUP Date Received: 05/20/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/28/21 20:23
Analyst: MKS
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-04 Date Collected: 05/19/21 08:00

Client ID: DUP Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	ND		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.66	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-04 Date Collected: 05/19/21 08:00

Client ID: DUP Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	81	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05
Client ID: 7-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 09:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/28/21 20:49
Analyst: MKS
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.8	3.6	1
1,1-Dichloroethane	0.31	J	ug/kg	1.6	0.23	1
Chloroform	ND		ug/kg	2.4	0.22	1
Carbon tetrachloride	ND		ug/kg	1.6	0.36	1
1,2-Dichloropropane	ND		ug/kg	1.6	0.20	1
Dibromochloromethane	ND		ug/kg	1.6	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.42	1
Tetrachloroethene	0.33	J	ug/kg	0.78	0.31	1
Chlorobenzene	ND		ug/kg	0.78	0.20	1
Trichlorofluoromethane	ND		ug/kg	6.3	1.1	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.40	1
1,1,1-Trichloroethane	ND		ug/kg	0.78	0.26	1
Bromodichloromethane	ND		ug/kg	0.78	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.43	1
cis-1,3-Dichloropropene	ND		ug/kg	0.78	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	0.78	0.25	1
1,1-Dichloropropene	ND		ug/kg	0.78	0.25	1
Bromoform	ND		ug/kg	6.3	0.38	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.78	0.26	1
Benzene	ND		ug/kg	0.78	0.26	1
Toluene	ND		ug/kg	1.6	0.85	1
Ethylbenzene	ND		ug/kg	1.6	0.22	1
Chloromethane	ND		ug/kg	6.3	1.5	1
Bromomethane	ND		ug/kg	3.1	0.91	1
Vinyl chloride	1.6		ug/kg	1.6	0.52	1
Chloroethane	ND		ug/kg	3.1	0.71	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	2.4	0.21	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05 Date Collected: 05/19/21 09:45

Client ID: 7-B2 (6.5-7) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.78	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.1	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	0.27	1
Methyl tert butyl ether	ND		ug/kg	3.1	0.32	1
p/m-Xylene	ND		ug/kg	3.1	0.88	1
o-Xylene	ND		ug/kg	1.6	0.46	1
Xylenes, Total	ND		ug/kg	1.6	0.46	1
cis-1,2-Dichloroethene	0.84	J	ug/kg	1.6	0.27	1
1,2-Dichloroethene, Total	0.84	J	ug/kg	1.6	0.21	1
Dibromomethane	ND		ug/kg	3.1	0.37	1
Styrene	ND		ug/kg	1.6	0.31	1
Dichlorodifluoromethane	ND		ug/kg	16	1.4	1
Acetone	100		ug/kg	16	7.5	1
Carbon disulfide	ND		ug/kg	16	7.1	1
2-Butanone	28		ug/kg	16	3.5	1
Vinyl acetate	ND		ug/kg	16	3.4	1
4-Methyl-2-pentanone	ND		ug/kg	16	2.0	1
1,2,3-Trichloropropane	ND		ug/kg	3.1	0.20	1
2-Hexanone	ND		ug/kg	16	1.8	1
Bromochloromethane	ND		ug/kg	3.1	0.32	1
2,2-Dichloropropane	ND		ug/kg	3.1	0.32	1
1,2-Dibromoethane	ND		ug/kg	1.6	0.44	1
1,3-Dichloropropane	ND		ug/kg	3.1	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.78	0.21	1
Bromobenzene	ND		ug/kg	3.1	0.23	1
n-Butylbenzene	ND		ug/kg	1.6	0.26	1
sec-Butylbenzene	ND		ug/kg	1.6	0.23	1
tert-Butylbenzene	ND		ug/kg	3.1	0.18	1
o-Chlorotoluene	ND		ug/kg	3.1	0.30	1
p-Chlorotoluene	ND		ug/kg	3.1	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	1.6	1
Hexachlorobutadiene	ND		ug/kg	6.3	0.26	1
Isopropylbenzene	ND		ug/kg	1.6	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.17	1
Naphthalene	ND		ug/kg	6.3	1.0	1
Acrylonitrile	ND		ug/kg	6.3	1.8	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05 Date Collected: 05/19/21 09:45

Client ID: 7-B2 (6.5-7) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.6	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	0.50	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	0.43	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	0.30	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	0.52	1
1,4-Dioxane	ND		ug/kg	120	55.	1
p-Diethylbenzene	ND		ug/kg	3.1	0.28	1
p-Ethyltoluene	ND		ug/kg	3.1	0.60	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.1	0.30	1
Ethyl ether	ND		ug/kg	3.1	0.53	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.8	2.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-06 Date Collected: 05/19/21 10:00
Client ID: 7-B2 (14-14.5) Date Received: 05/20/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/21 10:43
Analyst: JC
Percent Solids: 46%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	1100	490	1
1,1-Dichloroethane	ND		ug/kg	210	31.	1
Chloroform	ND		ug/kg	320	30.	1
Carbon tetrachloride	ND		ug/kg	210	49.	1
1,2-Dichloropropane	ND		ug/kg	210	27.	1
Dibromochloromethane	ND		ug/kg	210	30.	1
1,1,2-Trichloroethane	ND		ug/kg	210	57.	1
Tetrachloroethene	ND		ug/kg	110	42.	1
Chlorobenzene	ND		ug/kg	110	27.	1
Trichlorofluoromethane	ND		ug/kg	860	150	1
1,2-Dichloroethane	ND		ug/kg	210	55.	1
1,1,1-Trichloroethane	ND		ug/kg	110	36.	1
Bromodichloromethane	ND		ug/kg	110	23.	1
trans-1,3-Dichloropropene	ND		ug/kg	210	58.	1
cis-1,3-Dichloropropene	ND		ug/kg	110	34.	1
1,3-Dichloropropene, Total	ND		ug/kg	110	34.	1
1,1-Dichloropropene	ND		ug/kg	110	34.	1
Bromoform	ND		ug/kg	860	53.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	110	35.	1
Benzene	ND		ug/kg	110	35.	1
Toluene	160	J	ug/kg	210	120	1
Ethylbenzene	59	J	ug/kg	210	30.	1
Chloromethane	ND		ug/kg	860	200	1
Bromomethane	ND		ug/kg	430	120	1
Vinyl chloride	100	J	ug/kg	210	72.	1
Chloroethane	ND		ug/kg	430	97.	1
1,1-Dichloroethene	ND		ug/kg	210	51.	1
trans-1,2-Dichloroethene	180	J	ug/kg	320	29.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-06 Date Collected: 05/19/21 10:00

Client ID: 7-B2 (14-14.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	85	J	ug/kg	110	29.	1
1,2-Dichlorobenzene	490		ug/kg	430	31.	1
1,3-Dichlorobenzene	ND		ug/kg	430	32.	1
1,4-Dichlorobenzene	ND		ug/kg	430	36.	1
Methyl tert butyl ether	ND		ug/kg	430	43.	1
p/m-Xylene	130	J	ug/kg	430	120	1
o-Xylene	110	J	ug/kg	210	62.	1
Xylenes, Total	240	J	ug/kg	210	62.	1
cis-1,2-Dichloroethene	5000		ug/kg	210	37.	1
1,2-Dichloroethene, Total	5200	J	ug/kg	210	29.	1
Dibromomethane	ND		ug/kg	430	51.	1
Styrene	ND		ug/kg	210	42.	1
Dichlorodifluoromethane	ND		ug/kg	2100	200	1
Acetone	1900	J	ug/kg	2100	1000	1
Carbon disulfide	ND		ug/kg	2100	970	1
2-Butanone	470	J	ug/kg	2100	470	1
Vinyl acetate	ND		ug/kg	2100	460	1
4-Methyl-2-pentanone	ND		ug/kg	2100	270	1
1,2,3-Trichloropropane	ND		ug/kg	430	27.	1
2-Hexanone	ND		ug/kg	2100	250	1
Bromochloromethane	ND		ug/kg	430	44.	1
2,2-Dichloropropane	ND		ug/kg	430	43.	1
1,2-Dibromoethane	ND		ug/kg	210	60.	1
1,3-Dichloropropane	ND		ug/kg	430	36.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	110	28.	1
Bromobenzene	ND		ug/kg	430	31.	1
n-Butylbenzene	ND		ug/kg	210	36.	1
sec-Butylbenzene	ND		ug/kg	210	31.	1
tert-Butylbenzene	ND		ug/kg	430	25.	1
o-Chlorotoluene	84	J	ug/kg	430	41.	1
p-Chlorotoluene	ND		ug/kg	430	23.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	640	210	1
Hexachlorobutadiene	ND		ug/kg	860	36.	1
Isopropylbenzene	48	J	ug/kg	210	23.	1
p-Isopropyltoluene	730		ug/kg	210	23.	1
Naphthalene	52000		ug/kg	860	140	1
Acrylonitrile	ND		ug/kg	860	240	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-06 Date Collected: 05/19/21 10:00

Client ID: 7-B2 (14-14.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	210	36.	1
1,2,3-Trichlorobenzene	ND		ug/kg	430	69.	1
1,2,4-Trichlorobenzene	ND		ug/kg	430	58.	1
1,3,5-Trimethylbenzene	220	J	ug/kg	430	41.	1
1,2,4-Trimethylbenzene	390	J	ug/kg	430	71.	1
1,4-Dioxane	ND		ug/kg	17000	7500	1
p-Diethylbenzene	ND		ug/kg	430	38.	1
p-Ethyltoluene	130	J	ug/kg	430	82.	1
1,2,4,5-Tetramethylbenzene	130	J	ug/kg	430	41.	1
Ethyl ether	ND		ug/kg	430	73.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	1100	300	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 D2
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/30/21 12:13
Analyst: JC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	14000	6600	50
1,1-Dichloroethane	ND		ug/kg	2900	420	50
Chloroform	ND		ug/kg	4400	410	50
Carbon tetrachloride	ND		ug/kg	2900	670	50
1,2-Dichloropropane	ND		ug/kg	2900	360	50
Dibromochloromethane	ND		ug/kg	2900	410	50
1,1,2-Trichloroethane	ND		ug/kg	2900	770	50
Tetrachloroethene	2200000	E	ug/kg	1400	570	50
Chlorobenzene	ND		ug/kg	1400	370	50
Trichlorofluoromethane	ND		ug/kg	12000	2000	50
1,2-Dichloroethane	ND		ug/kg	2900	740	50
1,1,1-Trichloroethane	ND		ug/kg	1400	480	50
Bromodichloromethane	ND		ug/kg	1400	320	50
trans-1,3-Dichloropropene	ND		ug/kg	2900	790	50
cis-1,3-Dichloropropene	ND		ug/kg	1400	460	50
1,3-Dichloropropene, Total	ND		ug/kg	1400	460	50
1,1-Dichloropropene	ND		ug/kg	1400	460	50
Bromoform	ND		ug/kg	12000	710	50
1,1,2,2-Tetrachloroethane	ND		ug/kg	1400	480	50
Benzene	ND		ug/kg	1400	480	50
Toluene	2100	J	ug/kg	2900	1600	50
Ethylbenzene	680	J	ug/kg	2900	410	50
Chloromethane	ND		ug/kg	12000	2700	50
Bromomethane	ND		ug/kg	5800	1700	50
Vinyl chloride	ND		ug/kg	2900	970	50
Chloroethane	ND		ug/kg	5800	1300	50
1,1-Dichloroethene	ND		ug/kg	2900	690	50
trans-1,2-Dichloroethene	ND		ug/kg	4400	400	50

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 D2 Date Collected: 05/19/21 11:15

Client ID: 7-B1 (9-10) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	140000		ug/kg	1400	400	50
1,2-Dichlorobenzene	ND		ug/kg	5800	420	50
1,3-Dichlorobenzene	ND		ug/kg	5800	430	50
1,4-Dichlorobenzene	ND		ug/kg	5800	500	50
Methyl tert butyl ether	ND		ug/kg	5800	580	50
p/m-Xylene	1900	J	ug/kg	5800	1600	50
o-Xylene	ND		ug/kg	2900	840	50
Xylenes, Total	1900	J	ug/kg	2900	840	50
cis-1,2-Dichloroethene	21000		ug/kg	2900	510	50
1,2-Dichloroethene, Total	21000		ug/kg	2900	400	50
Dibromomethane	ND		ug/kg	5800	690	50
Styrene	ND		ug/kg	2900	570	50
Dichlorodifluoromethane	ND		ug/kg	29000	2600	50
Acetone	ND		ug/kg	29000	14000	50
Carbon disulfide	ND		ug/kg	29000	13000	50
2-Butanone	ND		ug/kg	29000	6400	50
Vinyl acetate	ND		ug/kg	29000	6200	50
4-Methyl-2-pentanone	ND		ug/kg	29000	3700	50
1,2,3-Trichloropropane	ND		ug/kg	5800	370	50
2-Hexanone	ND		ug/kg	29000	3400	50
Bromochloromethane	ND		ug/kg	5800	590	50
2,2-Dichloropropane	ND		ug/kg	5800	580	50
1,2-Dibromoethane	ND		ug/kg	2900	810	50
1,3-Dichloropropane	ND		ug/kg	5800	480	50
1,1,1,2-Tetrachloroethane	ND		ug/kg	1400	380	50
Bromobenzene	ND		ug/kg	5800	420	50
n-Butylbenzene	ND		ug/kg	2900	480	50
sec-Butylbenzene	ND		ug/kg	2900	420	50
tert-Butylbenzene	ND		ug/kg	5800	340	50
o-Chlorotoluene	ND		ug/kg	5800	550	50
p-Chlorotoluene	ND		ug/kg	5800	310	50
1,2-Dibromo-3-chloropropane	ND		ug/kg	8700	2900	50
Hexachlorobutadiene	ND		ug/kg	12000	490	50
Isopropylbenzene	ND		ug/kg	2900	320	50
p-Isopropyltoluene	820	J	ug/kg	2900	320	50
Naphthalene	3200	J	ug/kg	12000	1900	50
Acrylonitrile	ND		ug/kg	12000	3300	50

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 D2 Date Collected: 05/19/21 11:15

Client ID: 7-B1 (9-10) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	680	J	ug/kg	2900	500	50
1,2,3-Trichlorobenzene	ND		ug/kg	5800	930	50
1,2,4-Trichlorobenzene	ND		ug/kg	5800	790	50
1,3,5-Trimethylbenzene	1600	J	ug/kg	5800	560	50
1,2,4-Trimethylbenzene	4300	J	ug/kg	5800	970	50
1,4-Dioxane	ND		ug/kg	230000	100000	50
p-Diethylbenzene	ND		ug/kg	5800	510	50
p-Ethyltoluene	3000	J	ug/kg	5800	1100	50
1,2,4,5-Tetramethylbenzene	670	J	ug/kg	5800	550	50
Ethyl ether	ND		ug/kg	5800	990	50
trans-1,4-Dichloro-2-butene	ND		ug/kg	14000	4100	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 D
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/28/21 14:56
Analyst: MKS
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	1700000		ug/kg	5800	2300	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-08 Date Collected: 05/19/21 11:50
Client ID: 7-B1 (27-27.5) Date Received: 05/20/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/28/21 21:15
Analyst: MKS
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	2.3		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	40		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.89	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.6	0.74	1
Vinyl chloride	0.63	J	ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	0.40	J	ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-08 Date Collected: 05/19/21 11:50

Client ID: 7-B1 (27-27.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	2.1		ug/kg	0.64	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	3.1		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	3.1		ug/kg	1.3	0.17	1
Dibromomethane	ND		ug/kg	2.6	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.18	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.24	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.83	1
Acrylonitrile	ND		ug/kg	5.1	1.5	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-08 Date Collected: 05/19/21 11:50

Client ID: 7-B1 (27-27.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.22	1
p-Ethyltoluene	ND		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.24	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09
Client ID: 7-B3 (10.5-11.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 13:20
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/28/21 21:42
Analyst: MKS
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.91	0.13	1
Chloroform	0.13	J	ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.91	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.91	0.11	1
Dibromochloromethane	ND		ug/kg	0.91	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.91	0.24	1
Tetrachloroethene	0.99		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.63	1
1,2-Dichloroethane	ND		ug/kg	0.91	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	0.40	J	ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.91	0.50	1
Ethylbenzene	ND		ug/kg	0.91	0.13	1
Chloromethane	ND		ug/kg	3.6	0.85	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	110		ug/kg	0.91	0.30	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	2.7		ug/kg	0.91	0.22	1
trans-1,2-Dichloroethene	4.9		ug/kg	1.4	0.12	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09 Date Collected: 05/19/21 13:20

Client ID: 7-B3 (10.5-11.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	2.4		ug/kg	0.46	0.12	1
1,2-Dichlorobenzene	0.83	J	ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.91	0.26	1
Xylenes, Total	ND		ug/kg	0.91	0.26	1
cis-1,2-Dichloroethene	1300	E	ug/kg	0.91	0.16	1
1,2-Dichloroethene, Total	12000		ug/kg	1.4	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.91	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.1	0.84	1
Acetone	5.6	J	ug/kg	9.1	4.4	1
Carbon disulfide	ND		ug/kg	9.1	4.2	1
2-Butanone	ND		ug/kg	9.1	2.0	1
Vinyl acetate	ND		ug/kg	9.1	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.1	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.1	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.91	0.25	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.91	0.15	1
sec-Butylbenzene	ND		ug/kg	0.91	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.91	1
Hexachlorobutadiene	ND		ug/kg	3.6	0.15	1
Isopropylbenzene	ND		ug/kg	0.91	0.10	1
p-Isopropyltoluene	0.29	J	ug/kg	0.91	0.10	1
Naphthalene	1.4	J	ug/kg	3.6	0.59	1
Acrylonitrile	ND		ug/kg	3.6	1.0	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09 Date Collected: 05/19/21 13:20

Client ID: 7-B3 (10.5-11.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.91	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	0.27	J	ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	0.32	J	ug/kg	1.8	0.30	1
1,4-Dioxane	ND		ug/kg	73	32.	1
p-Diethylbenzene	0.26	J	ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09
Client ID: 7-B3 (10.5-11.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 13:20
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/21 08:59
Analyst: JC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	280	130	1
1,1-Dichloroethane	ND		ug/kg	56	8.2	1
Chloroform	ND		ug/kg	85	7.9	1
Carbon tetrachloride	ND		ug/kg	56	13.	1
1,2-Dichloropropane	ND		ug/kg	56	7.1	1
Dibromochloromethane	ND		ug/kg	56	7.9	1
1,1,2-Trichloroethane	ND		ug/kg	56	15.	1
Tetrachloroethene	50		ug/kg	28	11.	1
Chlorobenzene	ND		ug/kg	28	7.2	1
Trichlorofluoromethane	ND		ug/kg	230	39.	1
1,2-Dichloroethane	ND		ug/kg	56	14.	1
1,1,1-Trichloroethane	ND		ug/kg	28	9.4	1
Bromodichloromethane	ND		ug/kg	28	6.2	1
trans-1,3-Dichloropropene	ND		ug/kg	56	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	28	8.9	1
1,3-Dichloropropene, Total	ND		ug/kg	28	8.9	1
1,1-Dichloropropene	ND		ug/kg	28	9.0	1
Bromoform	ND		ug/kg	230	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	28	9.4	1
Benzene	ND		ug/kg	28	9.4	1
Toluene	38	J	ug/kg	56	31.	1
Ethylbenzene	ND		ug/kg	56	8.0	1
Chloromethane	ND		ug/kg	230	53.	1
Bromomethane	ND		ug/kg	110	33.	1
Vinyl chloride	570		ug/kg	56	19.	1
Chloroethane	ND		ug/kg	110	26.	1
1,1-Dichloroethene	19	J	ug/kg	56	13.	1
trans-1,2-Dichloroethene	93		ug/kg	85	7.8	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09 Date Collected: 05/19/21 13:20

Client ID: 7-B3 (10.5-11.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	37		ug/kg	28	7.8	1
1,2-Dichlorobenzene	ND		ug/kg	110	8.1	1
1,3-Dichlorobenzene	ND		ug/kg	110	8.4	1
1,4-Dichlorobenzene	ND		ug/kg	110	9.7	1
Methyl tert butyl ether	ND		ug/kg	110	11.	1
p/m-Xylene	ND		ug/kg	110	32.	1
o-Xylene	ND		ug/kg	56	16.	1
Xylenes, Total	ND		ug/kg	56	16.	1
cis-1,2-Dichloroethene	12000		ug/kg	56	9.9	1
1,2-Dichloroethene, Total	12000		ug/kg	56	7.8	1
Dibromomethane	ND		ug/kg	110	13.	1
Styrene	17	J	ug/kg	56	11.	1
Dichlorodifluoromethane	ND		ug/kg	560	52.	1
Acetone	ND		ug/kg	560	270	1
Carbon disulfide	ND		ug/kg	560	260	1
2-Butanone	ND		ug/kg	560	120	1
Vinyl acetate	ND		ug/kg	560	120	1
4-Methyl-2-pentanone	ND		ug/kg	560	72.	1
1,2,3-Trichloropropane	ND		ug/kg	110	7.2	1
2-Hexanone	ND		ug/kg	560	67.	1
Bromochloromethane	ND		ug/kg	110	12.	1
2,2-Dichloropropane	ND		ug/kg	110	11.	1
1,2-Dibromoethane	ND		ug/kg	56	16.	1
1,3-Dichloropropane	ND		ug/kg	110	9.4	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	28	7.5	1
Bromobenzene	ND		ug/kg	110	8.2	1
n-Butylbenzene	ND		ug/kg	56	9.4	1
sec-Butylbenzene	ND		ug/kg	56	8.3	1
tert-Butylbenzene	ND		ug/kg	110	6.7	1
o-Chlorotoluene	ND		ug/kg	110	11.	1
p-Chlorotoluene	ND		ug/kg	110	6.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	170	56.	1
Hexachlorobutadiene	ND		ug/kg	230	9.6	1
Isopropylbenzene	ND		ug/kg	56	6.2	1
p-Isopropyltoluene	ND		ug/kg	56	6.2	1
Naphthalene	39	J	ug/kg	230	37.	1
Acrylonitrile	ND		ug/kg	230	65.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09 Date Collected: 05/19/21 13:20

Client ID: 7-B3 (10.5-11.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	56	9.7	1
1,2,3-Trichlorobenzene	ND		ug/kg	110	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	15.	1
1,3,5-Trimethylbenzene	ND		ug/kg	110	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	110	19.	1
1,4-Dioxane	ND		ug/kg	4500	2000	1
p-Diethylbenzene	ND		ug/kg	110	10.	1
p-Ethyltoluene	ND		ug/kg	110	22.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	110	11.	1
Ethyl ether	ND		ug/kg	110	19.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	280	80.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	105		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10
Client ID: 3-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 14:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/21 09:51
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.85	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.85	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.85	0.10	1
Dibromochloromethane	ND		ug/kg	0.85	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.85	0.22	1
Tetrachloroethene	0.35	J	ug/kg	0.42	0.16	1
Chlorobenzene	ND		ug/kg	0.42	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.59	1
1,2-Dichloroethane	ND		ug/kg	0.85	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	0.14	1
Bromodichloromethane	ND		ug/kg	0.42	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	0.42	0.13	1
1,1-Dichloropropene	ND		ug/kg	0.42	0.13	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	0.14	1
Benzene	ND		ug/kg	0.42	0.14	1
Toluene	ND		ug/kg	0.85	0.46	1
Ethylbenzene	ND		ug/kg	0.85	0.12	1
Chloromethane	ND		ug/kg	3.4	0.79	1
Bromomethane	ND		ug/kg	1.7	0.49	1
Vinyl chloride	ND		ug/kg	0.85	0.28	1
Chloroethane	ND		ug/kg	1.7	0.38	1
1,1-Dichloroethene	ND		ug/kg	0.85	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10 Date Collected: 05/19/21 14:00

Client ID: 3-B1 (7.5-8) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.42	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.47	1
o-Xylene	ND		ug/kg	0.85	0.25	1
Xylenes, Total	ND		ug/kg	0.85	0.25	1
cis-1,2-Dichloroethene	0.41	J	ug/kg	0.85	0.15	1
1,2-Dichloroethene, Total	0.41	J	ug/kg	0.85	0.12	1
Dibromomethane	ND		ug/kg	1.7	0.20	1
Styrene	ND		ug/kg	0.85	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.5	0.77	1
Acetone	ND		ug/kg	8.5	4.1	1
Carbon disulfide	ND		ug/kg	8.5	3.8	1
2-Butanone	ND		ug/kg	8.5	1.9	1
Vinyl acetate	ND		ug/kg	8.5	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.5	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.5	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.17	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.85	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.42	0.11	1
Bromobenzene	ND		ug/kg	1.7	0.12	1
n-Butylbenzene	ND		ug/kg	0.85	0.14	1
sec-Butylbenzene	ND		ug/kg	0.85	0.12	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.84	1
Hexachlorobutadiene	ND		ug/kg	3.4	0.14	1
Isopropylbenzene	ND		ug/kg	0.85	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.85	0.09	1
Naphthalene	ND		ug/kg	3.4	0.55	1
Acrylonitrile	ND		ug/kg	3.4	0.97	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10 Date Collected: 05/19/21 14:00

Client ID: 3-B1 (7.5-8) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.85	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.28	1
1,4-Dioxane	ND		ug/kg	68	30.	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.32	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.16	1
Ethyl ether	ND		ug/kg	1.7	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.2	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	111		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-11
Client ID: 3-B1 (17.5-18)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 14:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/28/21 22:33
Analyst: MKS
Percent Solids: 31%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	24	11.	1
1,1-Dichloroethane	ND		ug/kg	4.8	0.70	1
Chloroform	ND		ug/kg	7.2	0.68	1
Carbon tetrachloride	ND		ug/kg	4.8	1.1	1
1,2-Dichloropropane	ND		ug/kg	4.8	0.60	1
Dibromochloromethane	ND		ug/kg	4.8	0.68	1
1,1,2-Trichloroethane	ND		ug/kg	4.8	1.3	1
Tetrachloroethene	ND		ug/kg	2.4	0.95	1
Chlorobenzene	ND		ug/kg	2.4	0.61	1
Trichlorofluoromethane	ND		ug/kg	19	3.4	1
1,2-Dichloroethane	ND		ug/kg	4.8	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	2.4	0.81	1
Bromodichloromethane	ND		ug/kg	2.4	0.53	1
trans-1,3-Dichloropropene	ND		ug/kg	4.8	1.3	1
cis-1,3-Dichloropropene	ND		ug/kg	2.4	0.76	1
1,3-Dichloropropene, Total	ND		ug/kg	2.4	0.76	1
1,1-Dichloropropene	ND		ug/kg	2.4	0.77	1
Bromoform	ND		ug/kg	19	1.2	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.4	0.80	1
Benzene	19		ug/kg	2.4	0.80	1
Toluene	11		ug/kg	4.8	2.6	1
Ethylbenzene	29		ug/kg	4.8	0.68	1
Chloromethane	ND		ug/kg	19	4.5	1
Bromomethane	ND		ug/kg	9.7	2.8	1
Vinyl chloride	ND		ug/kg	4.8	1.6	1
Chloroethane	ND		ug/kg	9.7	2.2	1
1,1-Dichloroethene	ND		ug/kg	4.8	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	7.2	0.66	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-11 Date Collected: 05/19/21 14:45

Client ID: 3-B1 (17.5-18) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	2.4	0.66	1
1,2-Dichlorobenzene	ND		ug/kg	9.7	0.70	1
1,3-Dichlorobenzene	ND		ug/kg	9.7	0.72	1
1,4-Dichlorobenzene	ND		ug/kg	9.7	0.83	1
Methyl tert butyl ether	15		ug/kg	9.7	0.97	1
p/m-Xylene	200		ug/kg	9.7	2.7	1
o-Xylene	56		ug/kg	4.8	1.4	1
Xylenes, Total	260		ug/kg	4.8	1.4	1
cis-1,2-Dichloroethene	0.89	J	ug/kg	4.8	0.84	1
1,2-Dichloroethene, Total	0.89	J	ug/kg	4.8	0.66	1
Dibromomethane	ND		ug/kg	9.7	1.2	1
Styrene	ND		ug/kg	4.8	0.95	1
Dichlorodifluoromethane	ND		ug/kg	48	4.4	1
Acetone	64		ug/kg	48	23.	1
Carbon disulfide	29	J	ug/kg	48	22.	1
2-Butanone	ND		ug/kg	48	11.	1
Vinyl acetate	ND		ug/kg	48	10.	1
4-Methyl-2-pentanone	ND		ug/kg	48	6.2	1
1,2,3-Trichloropropane	ND		ug/kg	9.7	0.61	1
2-Hexanone	ND		ug/kg	48	5.7	1
Bromochloromethane	ND		ug/kg	9.7	0.99	1
2,2-Dichloropropane	ND		ug/kg	9.7	0.98	1
1,2-Dibromoethane	ND		ug/kg	4.8	1.3	1
1,3-Dichloropropane	ND		ug/kg	9.7	0.81	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.4	0.64	1
Bromobenzene	ND		ug/kg	9.7	0.70	1
n-Butylbenzene	ND		ug/kg	4.8	0.81	1
sec-Butylbenzene	ND		ug/kg	4.8	0.70	1
tert-Butylbenzene	ND		ug/kg	9.7	0.57	1
o-Chlorotoluene	ND		ug/kg	9.7	0.92	1
p-Chlorotoluene	ND		ug/kg	9.7	0.52	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	14	4.8	1
Hexachlorobutadiene	ND		ug/kg	19	0.82	1
Isopropylbenzene	3.7	J	ug/kg	4.8	0.53	1
p-Isopropyltoluene	6.7		ug/kg	4.8	0.53	1
Naphthalene	ND		ug/kg	19	3.1	1
Acrylonitrile	ND		ug/kg	19	5.6	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-11 Date Collected: 05/19/21 14:45

Client ID: 3-B1 (17.5-18) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	4.8	0.83	1
1,2,3-Trichlorobenzene	ND		ug/kg	9.7	1.6	1
1,2,4-Trichlorobenzene	ND		ug/kg	9.7	1.3	1
1,3,5-Trimethylbenzene	6.8	J	ug/kg	9.7	0.93	1
1,2,4-Trimethylbenzene	6.6	J	ug/kg	9.7	1.6	1
1,4-Dioxane	ND		ug/kg	390	170	1
p-Diethylbenzene	ND		ug/kg	9.7	0.86	1
p-Ethyltoluene	5.8	J	ug/kg	9.7	1.8	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	9.7	0.92	1
Ethyl ether	ND		ug/kg	9.7	1.6	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	24	6.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/28/21 18:12
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03-05,08-09,11 Batch: WG1505774-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.14	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	1.4	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/28/21 18:12
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03-05,08-09,11 Batch: WG1505774-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/28/21 18:12
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03-05,08-09,11 Batch: WG1505774-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/28/21 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1505979-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/28/21 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1505979-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	10	J	ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/28/21 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1505979-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/21 07:15
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,10 Batch: WG1506002-12					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.78	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/21 07:15
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,10 Batch: WG1506002-12					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/21 07:15
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,10 Batch: WG1506002-12					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	105		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/30/21 07:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1506010-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/30/21 07:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1506010-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	10	J	ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/30/21 07:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1506010-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/21 07:15
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06,09 Batch: WG1506085-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	39	J	ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/21 07:15
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06,09 Batch: WG1506085-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/21 07:15
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06,09 Batch: WG1506085-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-05,08-09,11 Batch: WG1505774-3 WG1505774-4								
Methylene chloride	99		93		70-130	6		30
1,1-Dichloroethane	99		92		70-130	7		30
Chloroform	90		83		70-130	8		30
Carbon tetrachloride	91		84		70-130	8		30
1,2-Dichloropropane	100		94		70-130	6		30
Dibromochloromethane	101		97		70-130	4		30
1,1,2-Trichloroethane	105		100		70-130	5		30
Tetrachloroethene	110		101		70-130	9		30
Chlorobenzene	104		96		70-130	8		30
Trichlorofluoromethane	98		89		70-139	10		30
1,2-Dichloroethane	84		80		70-130	5		30
1,1,1-Trichloroethane	93		86		70-130	8		30
Bromodichloromethane	91		87		70-130	4		30
trans-1,3-Dichloropropene	107		101		70-130	6		30
cis-1,3-Dichloropropene	102		97		70-130	5		30
1,1-Dichloropropene	104		96		70-130	8		30
Bromoform	104		102		70-130	2		30
1,1,2,2-Tetrachloroethane	112		110		70-130	2		30
Benzene	102		95		70-130	7		30
Toluene	101		94		70-130	7		30
Ethylbenzene	106		98		70-130	8		30
Chloromethane	85		78		52-130	9		30
Bromomethane	117		102		57-147	14		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-05,08-09,11 Batch: WG1505774-3 WG1505774-4								
Vinyl chloride	121		111		67-130	9		30
Chloroethane	136		121		50-151	12		30
1,1-Dichloroethene	111		104		65-135	7		30
trans-1,2-Dichloroethene	104		97		70-130	7		30
Trichloroethene	99		92		70-130	7		30
1,2-Dichlorobenzene	103		98		70-130	5		30
1,3-Dichlorobenzene	106		100		70-130	6		30
1,4-Dichlorobenzene	105		99		70-130	6		30
Methyl tert butyl ether	98		95		66-130	3		30
p/m-Xylene	108		100		70-130	8		30
o-Xylene	107		99		70-130	8		30
cis-1,2-Dichloroethene	100		94		70-130	6		30
Dibromomethane	93		91		70-130	2		30
Styrene	106		100		70-130	6		30
Dichlorodifluoromethane	79		72		30-146	9		30
Acetone	90		85		54-140	6		30
Carbon disulfide	106		98		59-130	8		30
2-Butanone	93		93		70-130	0		30
Vinyl acetate	101		98		70-130	3		30
4-Methyl-2-pentanone	99		98		70-130	1		30
1,2,3-Trichloropropane	103		102		68-130	1		30
2-Hexanone	97		96		70-130	1		30
Bromochloromethane	98		91		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-05,08-09,11 Batch: WG1505774-3 WG1505774-4								
2,2-Dichloropropane	95		86		70-130	10		30
1,2-Dibromoethane	109		106		70-130	3		30
1,3-Dichloropropane	107		101		69-130	6		30
1,1,1,2-Tetrachloroethane	103		98		70-130	5		30
Bromobenzene	104		97		70-130	7		30
n-Butylbenzene	113		104		70-130	8		30
sec-Butylbenzene	111		103		70-130	7		30
tert-Butylbenzene	108		100		70-130	8		30
o-Chlorotoluene	108		101		70-130	7		30
p-Chlorotoluene	108		101		70-130	7		30
1,2-Dibromo-3-chloropropane	103		102		68-130	1		30
Hexachlorobutadiene	103		95		67-130	8		30
Isopropylbenzene	111		103		70-130	7		30
p-Isopropyltoluene	108		100		70-130	8		30
Naphthalene	104		100		70-130	4		30
Acrylonitrile	102		99		70-130	3		30
n-Propylbenzene	114		105		70-130	8		30
1,2,3-Trichlorobenzene	103		98		70-130	5		30
1,2,4-Trichlorobenzene	107		101		70-130	6		30
1,3,5-Trimethylbenzene	106		99		70-130	7		30
1,2,4-Trimethylbenzene	106		99		70-130	7		30
1,4-Dioxane	93		88		65-136	6		30
p-Diethylbenzene	111		103		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-05,08-09,11 Batch: WG1505774-3 WG1505774-4								
p-Ethyltoluene	110		103		70-130	7		30
1,2,4,5-Tetramethylbenzene	108		100		70-130	8		30
Ethyl ether	**138**	Q	**131**	Q	67-130	5		30
trans-1,4-Dichloro-2-butene	102		100		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	86		87		70-130
Toluene-d8	105		103		70-130
4-Bromofluorobenzene	101		102		70-130
Dibromofluoromethane	94		95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1505979-3 WG1505979-4								
Methylene chloride	102		97		70-130	5		30
1,1-Dichloroethane	112		106		70-130	6		30
Chloroform	96		92		70-130	4		30
Carbon tetrachloride	97		92		70-130	5		30
1,2-Dichloropropane	106		102		70-130	4		30
Dibromochloromethane	98		97		70-130	1		30
1,1,2-Trichloroethane	98		96		70-130	2		30
Tetrachloroethene	101		95		70-130	6		30
Chlorobenzene	96		92		70-130	4		30
Trichlorofluoromethane	108		99		70-139	9		30
1,2-Dichloroethane	100		98		70-130	2		30
1,1,1-Trichloroethane	101		94		70-130	7		30
Bromodichloromethane	98		96		70-130	2		30
trans-1,3-Dichloropropene	100		98		70-130	2		30
cis-1,3-Dichloropropene	99		97		70-130	2		30
1,1-Dichloropropene	109		102		70-130	7		30
Bromoform	93		92		70-130	1		30
1,1,2,2-Tetrachloroethane	98		97		70-130	1		30
Benzene	105		99		70-130	6		30
Toluene	101		96		70-130	5		30
Ethylbenzene	100		94		70-130	6		30
Chloromethane	115		105		52-130	9		30
Bromomethane	145		134		57-147	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1505979-3 WG1505979-4								
Vinyl chloride	128		117		67-130	9		30
Chloroethane	**160**	Q	**152**	Q	50-151	5		30
1,1-Dichloroethene	116		106		65-135	9		30
trans-1,2-Dichloroethene	109		103		70-130	6		30
Trichloroethene	101		96		70-130	5		30
1,2-Dichlorobenzene	92		90		70-130	2		30
1,3-Dichlorobenzene	98		92		70-130	6		30
1,4-Dichlorobenzene	94		90		70-130	4		30
Methyl tert butyl ether	93		91		66-130	2		30
p/m-Xylene	99		94		70-130	5		30
o-Xylene	96		93		70-130	3		30
cis-1,2-Dichloroethene	103		99		70-130	4		30
Dibromomethane	98		96		70-130	2		30
Styrene	96		94		70-130	2		30
Dichlorodifluoromethane	61		55		30-146	10		30
Acetone	114		111		54-140	3		30
Carbon disulfide	121		113		59-130	7		30
2-Butanone	113		114		70-130	1		30
Vinyl acetate	118		115		70-130	3		30
4-Methyl-2-pentanone	98		95		70-130	3		30
1,2,3-Trichloropropane	96		96		68-130	0		30
2-Hexanone	95		96		70-130	1		30
Bromochloromethane	104		101		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1505979-3 WG1505979-4								
2,2-Dichloropropane	99		93		70-130	6		30
1,2-Dibromoethane	101		100		70-130	1		30
1,3-Dichloropropane	100		98		69-130	2		30
1,1,1,2-Tetrachloroethane	96		93		70-130	3		30
Bromobenzene	96		93		70-130	3		30
n-Butylbenzene	104		97		70-130	7		30
sec-Butylbenzene	100		94		70-130	6		30
tert-Butylbenzene	97		92		70-130	5		30
o-Chlorotoluene	101		95		70-130	6		30
p-Chlorotoluene	100		95		70-130	5		30
1,2-Dibromo-3-chloropropane	78		79		68-130	1		30
Hexachlorobutadiene	88		83		67-130	6		30
Isopropylbenzene	99		93		70-130	6		30
p-Isopropyltoluene	99		94		70-130	5		30
Naphthalene	85		83		70-130	2		30
Acrylonitrile	116		114		70-130	2		30
n-Propylbenzene	102		96		70-130	6		30
1,2,3-Trichlorobenzene	85		82		70-130	4		30
1,2,4-Trichlorobenzene	88		84		70-130	5		30
1,3,5-Trimethylbenzene	97		92		70-130	5		30
1,2,4-Trimethylbenzene	98		92		70-130	6		30
1,4-Dioxane	128		131		65-136	2		30
p-Diethylbenzene	98		93		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1505979-3 WG1505979-4								
p-Ethyltoluene	100		94		70-130	6		30
1,2,4,5-Tetramethylbenzene	93		89		70-130	4		30
Ethyl ether	110		107		67-130	3		30
trans-1,4-Dichloro-2-butene	106		105		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	96		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 Batch: WG1506002-10 WG1506002-11								
Methylene chloride	87		89		70-130	2		30
1,1-Dichloroethane	90		90		70-130	0		30
Chloroform	90		87		70-130	3		30
Carbon tetrachloride	97		92		70-130	5		30
1,2-Dichloropropane	90		90		70-130	0		30
Dibromochloromethane	101		105		70-130	4		30
1,1,2-Trichloroethane	91		98		70-130	7		30
Tetrachloroethene	100		98		70-130	2		30
Chlorobenzene	95		94		70-130	1		30
Trichlorofluoromethane	95		86		70-139	10		30
1,2-Dichloroethane	91		91		70-130	0		30
1,1,1-Trichloroethane	98		92		70-130	6		30
Bromodichloromethane	95		94		70-130	1		30
trans-1,3-Dichloropropene	100		105		70-130	5		30
cis-1,3-Dichloropropene	98		97		70-130	1		30
1,1-Dichloropropene	94		91		70-130	3		30
Bromoform	107		109		70-130	2		30
1,1,2,2-Tetrachloroethane	101		100		70-130	1		30
Benzene	90		90		70-130	0		30
Toluene	88		88		70-130	0		30
Ethylbenzene	97		94		70-130	3		30
Chloromethane	84		75		52-130	11		30
Bromomethane	90		86		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 Batch: WG1506002-10 WG1506002-11								
Vinyl chloride	88		81		67-130	8		30
Chloroethane	94		88		50-151	7		30
1,1-Dichloroethene	95		89		65-135	7		30
trans-1,2-Dichloroethene	93		91		70-130	2		30
Trichloroethene	95		91		70-130	4		30
1,2-Dichlorobenzene	98		96		70-130	2		30
1,3-Dichlorobenzene	100		97		70-130	3		30
1,4-Dichlorobenzene	99		97		70-130	2		30
Methyl tert butyl ether	91		98		66-130	7		30
p/m-Xylene	98		96		70-130	2		30
o-Xylene	98		96		70-130	2		30
cis-1,2-Dichloroethene	91		91		70-130	0		30
Dibromomethane	92		94		70-130	2		30
Styrene	98		96		70-130	2		30
Dichlorodifluoromethane	80		70		30-146	13		30
Acetone	78		102		54-140	27		30
Carbon disulfide	87		83		59-130	5		30
2-Butanone	82		97		70-130	17		30
Vinyl acetate	90		100		70-130	11		30
4-Methyl-2-pentanone	84		98		70-130	15		30
1,2,3-Trichloropropane	97		96		68-130	1		30
2-Hexanone	85		97		70-130	13		30
Bromochloromethane	93		94		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 Batch: WG1506002-10 WG1506002-11								
2,2-Dichloropropane	98		92		70-130	6		30
1,2-Dibromoethane	102		105		70-130	3		30
1,3-Dichloropropane	95		99		69-130	4		30
1,1,1,2-Tetrachloroethane	103		102		70-130	1		30
Bromobenzene	101		94		70-130	7		30
n-Butylbenzene	103		97		70-130	6		30
sec-Butylbenzene	101		94		70-130	7		30
tert-Butylbenzene	103		94		70-130	9		30
o-Chlorotoluene	102		94		70-130	8		30
p-Chlorotoluene	102		95		70-130	7		30
1,2-Dibromo-3-chloropropane	101		107		68-130	6		30
Hexachlorobutadiene	101		94		67-130	7		30
Isopropylbenzene	105		96		70-130	9		30
p-Isopropyltoluene	100		96		70-130	4		30
Naphthalene	98		102		70-130	4		30
Acrylonitrile	89		103		70-130	15		30
n-Propylbenzene	105		93		70-130	12		30
1,2,3-Trichlorobenzene	102		100		70-130	2		30
1,2,4-Trichlorobenzene	105		102		70-130	3		30
1,3,5-Trimethylbenzene	102		93		70-130	9		30
1,2,4-Trimethylbenzene	102		96		70-130	6		30
1,4-Dioxane	80		87		65-136	8		30
p-Diethylbenzene	104		97		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 Batch: WG1506002-10 WG1506002-11								
p-Ethyltoluene	104		94		70-130	10		30
1,2,4,5-Tetramethylbenzene	105		100		70-130	5		30
Ethyl ether	100		101		67-130	1		30
trans-1,4-Dichloro-2-butene	102		105		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	99		101		70-130
4-Bromofluorobenzene	101		97		70-130
Dibromofluoromethane	100		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1506010-3 WG1506010-4								
Methylene chloride	94		94		70-130	0		30
1,1-Dichloroethane	102		100		70-130	2		30
Chloroform	100		100		70-130	0		30
Carbon tetrachloride	103		103		70-130	0		30
1,2-Dichloropropane	102		102		70-130	0		30
Dibromochloromethane	111		112		70-130	1		30
1,1,2-Trichloroethane	109		108		70-130	1		30
Tetrachloroethene	106		109		70-130	3		30
Chlorobenzene	101		104		70-130	3		30
Trichlorofluoromethane	104		103		70-139	1		30
1,2-Dichloroethane	96		94		70-130	2		30
1,1,1-Trichloroethane	100		99		70-130	1		30
Bromodichloromethane	106		105		70-130	1		30
trans-1,3-Dichloropropene	109		109		70-130	0		30
cis-1,3-Dichloropropene	110		110		70-130	0		30
1,1-Dichloropropene	106		106		70-130	0		30
Bromoform	109		110		70-130	1		30
1,1,2,2-Tetrachloroethane	110		107		70-130	3		30
Benzene	104		104		70-130	0		30
Toluene	107		107		70-130	0		30
Ethylbenzene	104		105		70-130	1		30
Chloromethane	105		99		52-130	6		30
Bromomethane	105		108		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1506010-3 WG1506010-4								
Vinyl chloride	114		110		67-130	4		30
Chloroethane	116		115		50-151	1		30
1,1-Dichloroethene	109		109		65-135	0		30
trans-1,2-Dichloroethene	108		108		70-130	0		30
Trichloroethene	104		106		70-130	2		30
1,2-Dichlorobenzene	106		106		70-130	0		30
1,3-Dichlorobenzene	105		105		70-130	0		30
1,4-Dichlorobenzene	102		103		70-130	1		30
Methyl tert butyl ether	102		100		66-130	2		30
p/m-Xylene	106		107		70-130	1		30
o-Xylene	105		106		70-130	1		30
cis-1,2-Dichloroethene	107		106		70-130	1		30
Dibromomethane	105		105		70-130	0		30
Styrene	109		111		70-130	2		30
Dichlorodifluoromethane	146		140		30-146	4		30
Acetone	82		81		54-140	1		30
Carbon disulfide	100		100		59-130	0		30
2-Butanone	79		76		70-130	4		30
Vinyl acetate	104		100		70-130	4		30
4-Methyl-2-pentanone	99		98		70-130	1		30
1,2,3-Trichloropropane	103		102		68-130	1		30
2-Hexanone	86		85		70-130	1		30
Bromochloromethane	108		110		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1506010-3 WG1506010-4								
2,2-Dichloropropane	103		102		70-130	1		30
1,2-Dibromoethane	100		101		70-130	1		30
1,3-Dichloropropane	103		106		69-130	3		30
1,1,1,2-Tetrachloroethane	107		108		70-130	1		30
Bromobenzene	108		107		70-130	1		30
n-Butylbenzene	106		105		70-130	1		30
sec-Butylbenzene	108		107		70-130	1		30
tert-Butylbenzene	110		108		70-130	2		30
o-Chlorotoluene	92		89		70-130	3		30
p-Chlorotoluene	106		104		70-130	2		30
1,2-Dibromo-3-chloropropane	93		90		68-130	3		30
Hexachlorobutadiene	104		104		67-130	0		30
Isopropylbenzene	111		109		70-130	2		30
p-Isopropyltoluene	109		107		70-130	2		30
Naphthalene	100		100		70-130	0		30
Acrylonitrile	86		85		70-130	1		30
n-Propylbenzene	108		106		70-130	2		30
1,2,3-Trichlorobenzene	100		100		70-130	0		30
1,2,4-Trichlorobenzene	105		104		70-130	1		30
1,3,5-Trimethylbenzene	109		106		70-130	3		30
1,2,4-Trimethylbenzene	107		105		70-130	2		30
1,4-Dioxane	99		98		65-136	1		30
p-Diethylbenzene	110		108		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1506010-3 WG1506010-4								
p-Ethyltoluene	109		106		70-130	3		30
1,2,4,5-Tetramethylbenzene	109		108		70-130	1		30
Ethyl ether	108		107		67-130	1		30
trans-1,4-Dichloro-2-butene	103		99		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		90		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	105		103		70-130
Dibromofluoromethane	97		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06,09 Batch: WG1506085-3 WG1506085-4								
Methylene chloride	87		89		70-130	2		30
1,1-Dichloroethane	90		90		70-130	0		30
Chloroform	90		87		70-130	3		30
Carbon tetrachloride	97		92		70-130	5		30
1,2-Dichloropropane	90		90		70-130	0		30
Dibromochloromethane	101		105		70-130	4		30
1,1,2-Trichloroethane	91		98		70-130	7		30
Tetrachloroethene	100		98		70-130	2		30
Chlorobenzene	95		94		70-130	1		30
Trichlorofluoromethane	95		86		70-139	10		30
1,2-Dichloroethane	91		91		70-130	0		30
1,1,1-Trichloroethane	98		92		70-130	6		30
Bromodichloromethane	95		94		70-130	1		30
trans-1,3-Dichloropropene	100		105		70-130	5		30
cis-1,3-Dichloropropene	98		97		70-130	1		30
1,1-Dichloropropene	94		91		70-130	3		30
Bromoform	107		109		70-130	2		30
1,1,2,2-Tetrachloroethane	101		100		70-130	1		30
Benzene	90		90		70-130	0		30
Toluene	88		88		70-130	0		30
Ethylbenzene	97		94		70-130	3		30
Chloromethane	84		75		52-130	11		30
Bromomethane	90		86		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06,09 Batch: WG1506085-3 WG1506085-4								
Vinyl chloride	88		81		67-130	8		30
Chloroethane	94		88		50-151	7		30
1,1-Dichloroethene	95		89		65-135	7		30
trans-1,2-Dichloroethene	93		91		70-130	2		30
Trichloroethene	95		91		70-130	4		30
1,2-Dichlorobenzene	98		96		70-130	2		30
1,3-Dichlorobenzene	100		97		70-130	3		30
1,4-Dichlorobenzene	99		97		70-130	2		30
Methyl tert butyl ether	91		98		66-130	7		30
p/m-Xylene	98		96		70-130	2		30
o-Xylene	98		96		70-130	2		30
cis-1,2-Dichloroethene	91		91		70-130	0		30
Dibromomethane	92		94		70-130	2		30
Styrene	98		96		70-130	2		30
Dichlorodifluoromethane	80		70		30-146	13		30
Acetone	78		102		54-140	27		30
Carbon disulfide	87		83		59-130	5		30
2-Butanone	82		97		70-130	17		30
Vinyl acetate	90		100		70-130	11		30
4-Methyl-2-pentanone	84		98		70-130	15		30
1,2,3-Trichloropropane	97		96		68-130	1		30
2-Hexanone	85		97		70-130	13		30
Bromochloromethane	93		94		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06,09 Batch: WG1506085-3 WG1506085-4								
2,2-Dichloropropane	98		92		70-130	6		30
1,2-Dibromoethane	102		105		70-130	3		30
1,3-Dichloropropane	95		99		69-130	4		30
1,1,1,2-Tetrachloroethane	103		102		70-130	1		30
Bromobenzene	101		94		70-130	7		30
n-Butylbenzene	103		97		70-130	6		30
sec-Butylbenzene	101		94		70-130	7		30
tert-Butylbenzene	103		94		70-130	9		30
o-Chlorotoluene	102		94		70-130	8		30
p-Chlorotoluene	102		95		70-130	7		30
1,2-Dibromo-3-chloropropane	101		107		68-130	6		30
Hexachlorobutadiene	101		94		67-130	7		30
Isopropylbenzene	105		96		70-130	9		30
p-Isopropyltoluene	100		96		70-130	4		30
Naphthalene	98		102		70-130	4		30
Acrylonitrile	89		103		70-130	15		30
n-Propylbenzene	105		93		70-130	12		30
1,2,3-Trichlorobenzene	102		100		70-130	2		30
1,2,4-Trichlorobenzene	105		102		70-130	3		30
1,3,5-Trimethylbenzene	102		93		70-130	9		30
1,2,4-Trimethylbenzene	102		96		70-130	6		30
1,4-Dioxane	80		87		65-136	8		30
p-Diethylbenzene	104		97		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06,09 Batch: WG1506085-3 WG1506085-4								
p-Ethyltoluene	104		94		70-130	10		30
1,2,4,5-Tetramethylbenzene	105		100		70-130	5		30
Ethyl ether	100		101		67-130	1		30
trans-1,4-Dichloro-2-butene	102		105		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	99		101		70-130
4-Bromofluorobenzene	101		97		70-130
Dibromofluoromethane	100		102		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 QC Batch ID: WG1506002-6 WG1506002-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
Methylene chloride	ND	106	52	**49**	Q	60	**57**	Q	70-130	13		30
1,1-Dichloroethane	0.12J	106	76	72		79	76		70-130	4		30
Chloroform	ND	106	71	**67**	Q	72	**69**	Q	70-130	1		30
Carbon tetrachloride	ND	106	87	82		89	85		70-130	2		30
1,2-Dichloropropane	ND	106	63	**59**	Q	63	**60**	Q	70-130	0		30
Dibromochloromethane	ND	106	57	**54**	Q	50	**48**	Q	70-130	14		30
1,1,2-Trichloroethane	ND	106	54	**50**	Q	53	**50**	Q	70-130	2		30
Tetrachloroethene	1.8	106	54	**49**	Q	54	**50**	Q	70-130	0		30
Chlorobenzene	ND	106	40	**37**	Q	33	**31**	Q	70-130	19		30
Trichlorofluoromethane	ND	106	110	100		110	109		70-139	7		30
1,2-Dichloroethane	ND	106	70	**66**	Q	65	**62**	Q	70-130	8		30
1,1,1-Trichloroethane	ND	106	91	86		96	92		70-130	5		30
Bromodichloromethane	ND	106	67	**63**	Q	61	**59**	Q	70-130	9		30
trans-1,3-Dichloropropene	ND	106	34	**32**	Q	24	**23**	Q	70-130	**33**	Q	30
cis-1,3-Dichloropropene	ND	106	46	**43**	Q	30	**28**	Q	70-130	**42**	Q	30
1,1-Dichloropropene	ND	106	63	**59**	Q	60	**58**	Q	70-130	5		30
Bromoform	ND	106	47	**44**	Q	38	**37**	Q	70-130	20		30
1,1,2,2-Tetrachloroethane	ND	106	41	**38**	Q	40	**38**	Q	70-130	1		30
Benzene	0.19J	106	63	**60**	Q	63	**60**	Q	70-130	1		30
Toluene	ND	106	51	**48**	Q	49	**46**	Q	70-130	6		30
Ethylbenzene	ND	106	46	**44**	Q	43	**42**	Q	70-130	6		30
Chloromethane	ND	106	73	68		87	83		52-130	18		30
Bromomethane	ND	106	58	**55**	Q	62	59		57-147	6		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 QC Batch ID: WG1506002-6 WG1506002-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
Vinyl chloride	ND	106	66	**62**	Q	87	83		67-130	27		30
Chloroethane	ND	106	76	72		88	84		50-151	14		30
1,1-Dichloroethene	ND	106	69	65		74	71		65-135	6		30
trans-1,2-Dichloroethene	0.38J	106	45	**42**	Q	53	**51**	Q	70-130	17		30
Trichloroethene	0.72	106	57	**53**	Q	53	**50**	Q	70-130	7		30
1,2-Dichlorobenzene	ND	106	21	**20**	Q	18	**17**	Q	70-130	17		30
1,3-Dichlorobenzene	ND	106	22	**21**	Q	16	**15**	Q	70-130	**33**	Q	30
1,4-Dichlorobenzene	ND	106	20	**18**	Q	13	**12**	Q	70-130	**40**	Q	30
Methyl tert butyl ether	ND	106	73	69		78	75		66-130	7		30
p/m-Xylene	ND	212	88	**42**	Q	83	**40**	Q	70-130	6		30
o-Xylene	ND	212	90	**42**	Q	91	**44**	Q	70-130	1		30
cis-1,2-Dichloroethene	0.94	106	52	**48**	Q	56	**52**	Q	70-130	7		30
Dibromomethane	ND	106	48	**45**	Q	45	**43**	Q	70-130	6		30
Styrene	ND	212	67	**32**	Q	39	**19**	Q	70-130	**53**	Q	30
Dichlorodifluoromethane	ND	106	90	85		100	97		30-146	11		30
Acetone	12	106	81	65		270	**247**	Q	54-140	**108**	Q	30
Carbon disulfide	ND	106	33	**31**	Q	47	**45**	Q	59-130	**34**	Q	30
2-Butanone	ND	106	69	**65**	Q	110	107		70-130	**47**	Q	30
Vinyl acetate	ND	106	21	**19**	Q	19	**18**	Q	70-130	7		30
4-Methyl-2-pentanone	ND	106	55	**52**	Q	59	**56**	Q	70-130	8		30
1,2,3-Trichloropropane	ND	106	46	**44**	Q	47	**45**	Q	68-130	1		30
2-Hexanone	ND	106	53	**50**	Q	55	**53**	Q	70-130	4		30
Bromochloromethane	ND	106	52	**49**	Q	55	**53**	Q	70-130	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 QC Batch ID: WG1506002-6 WG1506002-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
2,2-Dichloropropane	ND	106	91	86		98	93		70-130	7		30
1,2-Dibromoethane	ND	106	45	**43**	Q	36	**34**	Q	70-130	23		30
1,3-Dichloropropane	ND	106	52	**49**	Q	47	**45**	Q	69-130	10		30
1,1,1,2-Tetrachloroethane	ND	106	61	**57**	Q	60	**57**	Q	70-130	1		30
Bromobenzene	ND	106	30	**28**	Q	22	**21**	Q	70-130	28		30
n-Butylbenzene	ND	106	24	**23**	Q	23	**22**	Q	70-130	5		30
sec-Butylbenzene	ND	106	31	**30**	Q	34	**32**	Q	70-130	8		30
tert-Butylbenzene	ND	106	36	**34**	Q	39	**38**	Q	70-130	9		30
o-Chlorotoluene	ND	106	34	**32**	Q	33	**31**	Q	70-130	4		30
p-Chlorotoluene	ND	106	29	**27**	Q	21	**20**	Q	70-130	29		30
1,2-Dibromo-3-chloropropane	ND	106	37	**34**	Q	37	**35**	Q	68-130	1		30
Hexachlorobutadiene	ND	106	14	**14**	Q	15	**15**	Q	67-130	7		30
Isopropylbenzene	ND	106	43	**41**	Q	47	**45**	Q	70-130	8		30
p-Isopropyltoluene	ND	106	30	**28**	Q	32	**30**	Q	70-130	6		30
Naphthalene	ND	106	12	**11**	Q	10	**10**	Q	70-130	13		30
Acrylonitrile	ND	106	46	**44**	Q	54	**52**	Q	70-130	16		30
n-Propylbenzene	ND	106	36	**34**	Q	35	**33**	Q	70-130	3		30
1,2,3-Trichlorobenzene	ND	106	9.7	**9**	Q	8.6	**8**	Q	70-130	12		30
1,2,4-Trichlorobenzene	ND	106	10	**9**	Q	7.8	**8**	Q	70-130	25		30
1,3,5-Trimethylbenzene	ND	106	35	**33**	Q	37	**35**	Q	70-130	4		30
1,2,4-Trimethylbenzene	ND	106	33	**31**	Q	33	**31**	Q	70-130	1		30
1,4-Dioxane	ND	5300	4200	80		4500	85		65-136	5		30
p-Diethylbenzene	ND	106	26	**24**	Q	25	**24**	Q	70-130	4		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 QC Batch ID: WG1506002-6 WG1506002-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
p-Ethyltoluene	ND	106	35	**33**	Q	33	**31**	Q	70-130	6		30
1,2,4,5-Tetramethylbenzene	ND	106	20	**19**	Q	20	**19**	Q	70-130	0		30
Ethyl ether	ND	106	70	**66**	Q	74	71		67-130	5		30
trans-1,4-Dichloro-2-butene	ND	106	32	**30**	Q	13	**13**	Q	70-130	**83**	Q	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		122		70-130
4-Bromofluorobenzene	99		103		70-130
Dibromofluoromethane	111		111		70-130
Toluene-d8	100		103		70-130

SEMIVOLATILES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-02
Client ID: 10-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 08:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 19:13
Analyst: SZ
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 01:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	310		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	24	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-02 Date Collected: 05/19/21 08:00

Client ID: 10-B1 (8.5-9) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	160		ug/kg	120	22.	1
Benzo(a)pyrene	140	J	ug/kg	160	48.	1
Benzo(b)fluoranthene	150		ug/kg	120	33.	1
Benzo(k)fluoranthene	56	J	ug/kg	120	31.	1
Chrysene	150		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	41	J	ug/kg	120	38.	1
Benzo(ghi)perylene	64	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	150		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	70	J	ug/kg	160	27.	1
Pyrene	270		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-02 Date Collected: 05/19/21 08:00

Client ID: 10-B1 (8.5-9) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	103		25-120
Phenol-d6	99		10-120
Nitrobenzene-d5	111		23-120
2-Fluorobiphenyl	113		30-120
2,4,6-Tribromophenol	110		10-136
4-Terphenyl-d14	101		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-04
Client ID: DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 08:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/03/21 13:54
Analyst: SZ
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 01:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	110		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-04 Date Collected: 05/19/21 08:00

Client ID: DUP Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	71	J	ug/kg	110	21.	1
Benzo(a)pyrene	60	J	ug/kg	150	45.	1
Benzo(b)fluoranthene	70	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	58	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	33	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	76	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	35	J	ug/kg	150	26.	1
Pyrene	100	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-04 Date Collected: 05/19/21 08:00

Client ID: DUP Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	56		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05
Client ID: 7-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 09:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 18:51
Analyst: SZ
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 01:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	26.	1
Hexachlorobenzene	ND		ug/kg	140	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	31.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	43	J	ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	39.	1
1,4-Dichlorobenzene	ND		ug/kg	220	39.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	60.	1
2,4-Dinitrotoluene	ND		ug/kg	220	45.	1
2,6-Dinitrotoluene	ND		ug/kg	220	39.	1
Fluoranthene	320		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	23.	1
Hexachlorobutadiene	ND		ug/kg	220	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	650	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	ND		ug/kg	220	28.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	78.	1
Butyl benzyl phthalate	ND		ug/kg	220	57.	1
Di-n-butylphthalate	ND		ug/kg	220	43.	1
Di-n-octylphthalate	ND		ug/kg	220	77.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05 Date Collected: 05/19/21 09:45

Client ID: 7-B2 (6.5-7) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	21.	1
Dimethyl phthalate	ND		ug/kg	220	47.	1
Benzo(a)anthracene	180		ug/kg	140	25.	1
Benzo(a)pyrene	170	J	ug/kg	180	55.	1
Benzo(b)fluoranthene	180		ug/kg	140	38.	1
Benzo(k)fluoranthene	77	J	ug/kg	140	36.	1
Chrysene	170		ug/kg	140	23.	1
Acenaphthylene	ND		ug/kg	180	35.	1
Anthracene	52	J	ug/kg	140	44.	1
Benzo(ghi)perylene	82	J	ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	230		ug/kg	140	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	96	J	ug/kg	180	31.	1
Pyrene	310		ug/kg	140	22.	1
Biphenyl	ND		ug/kg	520	52.	1
4-Chloroaniline	ND		ug/kg	220	41.	1
2-Nitroaniline	ND		ug/kg	220	44.	1
3-Nitroaniline	ND		ug/kg	220	43.	1
4-Nitroaniline	ND		ug/kg	220	94.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	24.	1
Acetophenone	ND		ug/kg	220	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	43.	1
p-Chloro-m-cresol	ND		ug/kg	220	34.	1
2-Chlorophenol	ND		ug/kg	220	27.	1
2,4-Dichlorophenol	ND		ug/kg	200	36.	1
2,4-Dimethylphenol	ND		ug/kg	220	74.	1
2-Nitrophenol	ND		ug/kg	490	85.	1
4-Nitrophenol	ND		ug/kg	320	92.	1
2,4-Dinitrophenol	ND		ug/kg	1100	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	590	110	1
Pentachlorophenol	ND		ug/kg	180	50.	1
Phenol	ND		ug/kg	220	34.	1
2-Methylphenol	ND		ug/kg	220	35.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05 Date Collected: 05/19/21 09:45

Client ID: 7-B2 (6.5-7) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	43.	1
Benzoic Acid	ND		ug/kg	730	230	1
Benzyl Alcohol	ND		ug/kg	220	69.	1
Carbazole	ND		ug/kg	220	22.	1
1,4-Dioxane	ND		ug/kg	34	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	68		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05
Client ID: 7-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 09:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/29/21 17:53
Analyst: SG
Percent Solids: 73%

Extraction Method: ALPHA 23528
Extraction Date: 05/21/21 15:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.060	J	ng/g	0.614	0.028	1
Perfluoropentanoic Acid (PFPeA)	0.079	J	ng/g	0.614	0.057	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.307	0.048	1
Perfluorohexanoic Acid (PFHxA)	0.141	J	ng/g	0.614	0.065	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.307	0.055	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.307	0.074	1
Perfluorooctanoic Acid (PFOA)	0.082	J	ng/g	0.307	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.614	0.221	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.614	0.168	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.307	0.092	1
Perfluorooctanesulfonic Acid (PFOS)	0.552		ng/g	0.307	0.160	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.307	0.082	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.614	0.353	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.614	0.248	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.614	0.058	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.614	0.188	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.614	0.120	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.238	J	ng/g	0.614	0.104	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.614	0.086	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.614	0.251	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.614	0.066	1
PFOA/PFOS, Total	0.634	J	ng/g	0.307	0.052	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05 Date Collected: 05/19/21 09:45

Client ID: 7-B2 (6.5-7) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	75		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	86		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	83		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	79		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	79		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	81		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	78		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	40		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	79		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	76		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	51		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**27**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	56		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	38		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 08:13
Analyst: JG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 01:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	340		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	190	J	ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	46	J	ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	5500		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	200		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	98	J	ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	1600		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	66.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 Date Collected: 05/19/21 11:15

Client ID: 7-B1 (9-10) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	2800		ug/kg	120	22.	1
Benzo(a)pyrene	2900		ug/kg	160	48.	1
Benzo(b)fluoranthene	3300		ug/kg	120	33.	1
Benzo(k)fluoranthene	1300		ug/kg	120	31.	1
Chrysene	2700		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	1800		ug/kg	120	38.	1
Benzo(ghi)perylene	1700		ug/kg	160	23.	1
Fluorene	520		ug/kg	200	19.	1
Phenanthrene	3800		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	460		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	2000		ug/kg	160	27.	1
Pyrene	4100		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	240		ug/kg	200	18.	1
2-Methylnaphthalene	130	J	ug/kg	230	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	200	64.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 Date Collected: 05/19/21 11:15

Client ID: 7-B1 (9-10) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	120	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	49		30-120
2,4,6-Tribromophenol	51		10-136
4-Terphenyl-d14	42		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/29/21 18:09
Analyst: SG
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 05/21/21 15:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.558	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.558	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.279	0.044	1
Perfluorohexanoic Acid (PFHxA)	0.062	J	ng/g	0.558	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.279	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.279	0.068	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.279	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.558	0.200	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.558	0.152	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.279	0.084	1
Perfluorooctanesulfonic Acid (PFOS)	1.24		ng/g	0.279	0.145	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.279	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.558	0.320	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.558	0.225	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.558	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.558	0.171	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.558	0.109	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.82		ng/g	0.558	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.558	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.558	0.228	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.558	0.060	1
PFOA/PFOS, Total	1.24		ng/g	0.279	0.047	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 Date Collected: 05/19/21 11:15

Client ID: 7-B1 (9-10) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	115		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	104		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	110		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	112		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	131		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**28**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	56		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	35		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	116		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	87		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09
Client ID: 7-B3 (10.5-11.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 13:20
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 08:35
Analyst: JG
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 01:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09 Date Collected: 05/19/21 13:20

Client ID: 7-B3 (10.5-11.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09 Date Collected: 05/19/21 13:20

Client ID: 7-B3 (10.5-11.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	68		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10
Client ID: 3-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 14:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/02/21 14:37
Analyst: IM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 01:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	100	J	ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	26	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10 Date Collected: 05/19/21 14:00

Client ID: 3-B1 (7.5-8) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	50	J	ug/kg	110	22.	1
Benzo(a)pyrene	54	J	ug/kg	150	47.	1
Benzo(b)fluoranthene	63	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	31.	1
Chrysene	47	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	36	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	67	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	38	J	ug/kg	150	27.	1
Pyrene	94	J	ug/kg	110	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	41	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10 Date Collected: 05/19/21 14:00

Client ID: 3-B1 (7.5-8) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	67		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10
Client ID: 3-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 14:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/29/21 18:26
Analyst: SG
Percent Solids: 87%

Extraction Method: ALPHA 23528
Extraction Date: 05/21/21 15:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.518	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.518	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.259	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.518	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.259	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.259	0.063	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.259	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.518	0.186	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.518	0.142	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.259	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.259	0.135	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.259	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.518	0.298	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.518	0.209	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.518	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.518	0.159	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.518	0.102	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.518	0.088	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.518	0.073	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.518	0.212	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.518	0.056	1
PFOA/PFOS, Total	ND		ng/g	0.259	0.043	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10 Date Collected: 05/19/21 14:00

Client ID: 3-B1 (7.5-8) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	88		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	86		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	86		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	80		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	34		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	46		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	37		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	67		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/24/21 17:20
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/21/21 15:35

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05,07,10 Batch: WG1502082-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	0.055	J	ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/24/21 17:20
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/21/21 15:35

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05,07,10 Batch: WG1502082-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	108		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	102		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	74		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	74		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	35		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	69		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/30/21 13:10
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/21/21 15:35

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05,07,10 Batch: WG1502082-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	76		10-117

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/02/21 14:13
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04-05,07,09-10 Batch: WG1505612-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	68	J	ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/02/21 14:13
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04-05,07,09-10 Batch: WG1505612-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/02/21 14:13
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04-05,07,09-10 Batch: WG1505612-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		25-120
Phenol-d6	42		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	43		30-120
2,4,6-Tribromophenol	43		10-136
4-Terphenyl-d14	45		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 Batch: WG1502082-2								
Perfluorobutanoic Acid (PFBA)	97		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	97		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	98		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	98		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	98		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	100		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	97		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	107		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	101		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	96		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	96		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	97		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	105		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	90		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	98		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	99		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	112		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	105		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	105		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	96		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	102		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 Batch: WG1502082-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	101				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	104				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	84				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	92				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	85				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 Batch: WG1502082-2								
Perfluorooctanesulfonamide (FOSA)	94		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	76				10-117

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 Batch: WG1505612-2 WG1505612-3								
Acenaphthene	76		73		31-137	4		50
1,2,4-Trichlorobenzene	69		66		38-107	4		50
Hexachlorobenzene	76		72		40-140	5		50
Bis(2-chloroethyl)ether	72		71		40-140	1		50
2-Chloronaphthalene	78		74		40-140	5		50
1,2-Dichlorobenzene	70		67		40-140	4		50
1,3-Dichlorobenzene	70		66		40-140	6		50
1,4-Dichlorobenzene	69		66		28-104	4		50
3,3'-Dichlorobenzidine	68		64		40-140	6		50
2,4-Dinitrotoluene	84		80		40-132	5		50
2,6-Dinitrotoluene	89		86		40-140	3		50
Fluoranthene	84		78		40-140	7		50
4-Chlorophenyl phenyl ether	78		76		40-140	3		50
4-Bromophenyl phenyl ether	80		74		40-140	8		50
Bis(2-chloroisopropyl)ether	112		107		40-140	5		50
Bis(2-chloroethoxy)methane	75		70		40-117	7		50
Hexachlorobutadiene	77		72		40-140	7		50
Hexachlorocyclopentadiene	56		55		40-140	2		50
Hexachloroethane	75		71		40-140	5		50
Isophorone	74		69		40-140	7		50
Naphthalene	78		73		40-140	7		50
Nitrobenzene	84		80		40-140	5		50
NDPA/DPA	85		80		36-157	6		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 Batch: WG1505612-2 WG1505612-3								
n-Nitrosodi-n-propylamine	79		76		32-121	4		50
Bis(2-ethylhexyl)phthalate	102		97		40-140	5		50
Butyl benzyl phthalate	95		89		40-140	7		50
Di-n-butylphthalate	89		84		40-140	6		50
Di-n-octylphthalate	103		98		40-140	5		50
Diethyl phthalate	85		80		40-140	6		50
Dimethyl phthalate	78		74		40-140	5		50
Benzo(a)anthracene	82		78		40-140	5		50
Benzo(a)pyrene	92		84		40-140	9		50
Benzo(b)fluoranthene	87		84		40-140	4		50
Benzo(k)fluoranthene	87		78		40-140	11		50
Chrysene	83		77		40-140	8		50
Acenaphthylene	78		74		40-140	5		50
Anthracene	80		75		40-140	6		50
Benzo(ghi)perylene	87		82		40-140	6		50
Fluorene	84		79		40-140	6		50
Phenanthrene	79		74		40-140	7		50
Dibenzo(a,h)anthracene	84		79		40-140	6		50
Indeno(1,2,3-cd)pyrene	87		82		40-140	6		50
Pyrene	83		78		35-142	6		50
Biphenyl	76		72		37-127	5		50
4-Chloroaniline	76		72		40-140	5		50
2-Nitroaniline	94		88		47-134	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 Batch: WG1505612-2 WG1505612-3								
3-Nitroaniline	70		68		26-129	3		50
4-Nitroaniline	85		83		41-125	2		50
Dibenzofuran	82		79		40-140	4		50
2-Methylnaphthalene	80		76		40-140	5		50
1,2,4,5-Tetrachlorobenzene	74		69		40-117	7		50
Acetophenone	72		68		14-144	6		50
2,4,6-Trichlorophenol	86		81		30-130	6		50
p-Chloro-m-cresol	94		89		26-103	5		50
2-Chlorophenol	80		76		25-102	5		50
2,4-Dichlorophenol	81		78		30-130	4		50
2,4-Dimethylphenol	83		78		30-130	6		50
2-Nitrophenol	88		84		30-130	5		50
4-Nitrophenol	**115**	Q	108		11-114	6		50
2,4-Dinitrophenol	98		98		4-130	0		50
4,6-Dinitro-o-cresol	93		89		10-130	4		50
Pentachlorophenol	78		74		17-109	5		50
Phenol	81		77		26-90	5		50
2-Methylphenol	83		77		30-130.	8		50
3-Methylphenol/4-Methylphenol	81		79		30-130	3		50
2,4,5-Trichlorophenol	89		84		30-130	6		50
Benzoic Acid	94		90		10-110	4		50
Benzyl Alcohol	85		81		40-140	5		50
Carbazole	85		80		54-128	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 Batch: WG1505612-2 WG1505612-3								
1,4-Dioxane	64		60		40-140	6		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	92		87		25-120
Phenol-d6	87		79		10-120
Nitrobenzene-d5	88		84		23-120
2-Fluorobiphenyl	83		76		30-120
2,4,6-Tribromophenol	82		75		10-136
4-Terphenyl-d14	81		74		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1502082-3 WG1502082-4 QC Sample: L2126259-05 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	5.35	5.19	97		4.98	98		71-135	4		30
Perfluoropentanoic Acid (PFPeA)	ND	5.35	5.17	97		4.85	95		69-132	6		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.75	4.51	95		4.30	95		72-128	5		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5	4.99	100		4.80	101		62-145	4		30
Perfluorohexanoic Acid (PFHxA)	0.059J	5.35	5.28	98		5.03	98		70-132	5		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	5.03	4.89	97		4.34	91		73-123	12		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.35	5.19	97		5.01	98		71-131	4		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.89	4.87	100		4.25	91		67-130	14		30
Perfluorooctanoic Acid (PFOA)	0.053J	5.35	5.16	96		4.84	94		69-133	6		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.09	5.52	108		5.22	108		64-140	6		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.09	5.15	101		4.91	101		70-132	5		30
Perfluorononanoic Acid (PFNA)	ND	5.35	5.16	97		4.93	97		72-129	5		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.96	4.86	98		4.67	99		68-136	4		30
Perfluorodecanoic Acid (PFDA)	ND	5.35	5.23	98		5.01	98		69-133	4		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.13	5.97	116		5.08	104		65-137	16		30
Perfluorononanesulfonic Acid (PFNS)	ND	5.14	5.24	102		4.96	101		69-125	5		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.35	5.14	96		5.67	111		63-144	10		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.35	5.27	99		4.87	96		64-136	8		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.16	4.98	97		4.92	100		59-134	1		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.35	5.98	112		5.61	110		61-139	6		30
Perfluorododecanoic Acid (PFDoA)	ND	5.35	5.28	99		5.00	98		69-135	5		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.35	4.77	89		4.54	89		66-139	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1502082-3 WG1502082-4 QC Sample: L2126259-05 Client ID: MS Sample												
Perfluorotetradecanoic Acid (PFTA)	ND	5.35	5.62	105		5.52	108		69-133	2		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	84		102		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	75		79		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	88		93		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	64		64		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	71		62		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		95		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		92		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	95		96		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93		94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		103		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		91		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		77		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		93		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		105		58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		99		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		94		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		92		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		103		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1502082-3 WG1502082-4 QC Sample: L2126259-05 Client ID: MS Sample												
Perfluorooctanesulfonamide (FOSA)	ND	5.35	5.53F	103		4.47F	88		67-137	21		30

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	64		71		10-117

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1502082-5 WG1502082-6 QC Sample: L2126736-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	4.56	4.44	97		4.47	97		71-135	1		30
Perfluoropentanoic Acid (PFPeA)	ND	4.56	4.40	97		4.50	98		69-132	2		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.05	3.86	95		3.92	96		72-128	2		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.27	4.24	99		4.50	104		62-145	6		30
Perfluorohexanoic Acid (PFHxA)	ND	4.56	4.52	99		4.54	99		70-132	0		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.28	3.98	93		4.19	97		73-123	5		30
Perfluoroheptanoic Acid (PFHpA)	ND	4.56	4.43	97		4.53	98		71-131	2		30
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	ND	0.789	0.712	90		0.745	93		67-130	5		30
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	ND	3.37	3.22	95		3.36	99		67-130	4		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.17	3.93	94		4.11	98		67-130	4		30
Perfluorooctanoic Acid-Branched (br-PFOA)	ND	0.0000000912	ND	**0**	Q	ND	**0**	Q	69-133	NC		30
Perfluorooctanoic Acid-Linear (L-PFOA)	ND	4.56	4.35	95		4.46	97		69-133	2		30
Perfluorooctanoic Acid (PFOA)	ND	4.56	4.35	95		4.46	97		69-133	2		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.34	4.91	113		4.75	108		64-140	3		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.34	4.44	102		4.23	96		70-132	5		30
Perfluorononanoic Acid (PFNA)	ND	4.56	4.32	95		4.42	96		72-129	2		30
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	ND	0.892	0.863	97		0.862	96		68-136	0		30
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	ND	3.34	3.28	98		3.26	97		68-136	1		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.23	4.14	98		4.12	96		68-136	0		30
Perfluorodecanoic Acid (PFDA)	ND	4.56	4.31	95		4.46	97		69-133	3		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.38	4.76	109		4.44	100		65-137	7		30
Perfluorononanesulfonic Acid (PFNS)	ND	4.38	4.39	100		4.50	101		69-125	2		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1502082-5 WG1502082-6 QC Sample: L2126736-01 Client ID: MS Sample												
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NMeFOSAA)	ND	0.0000000912	ND	**0**	Q	ND	**0**	Q	63-144	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NMeFOSAA)	ND	4.56	9.50	**208**	Q	4.87	106		63-144	**64**	Q	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	4.56	9.50	**208**	Q	4.87	106		63-144	**64**	Q	30
Perfluoroundecanoic Acid (PFUnA)	ND	4.56	4.46	98		4.41	96		64-136	1		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.4	4.32	98		4.28	96		59-134	1		30
Perfluorooctanesulfonamide (FOSA)	ND	4.56	4.07	89		4.44	96		67-137	9		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NEtFOSAA)	ND	0.0000000912	ND	**0**	Q	ND	**0**	Q	61-139	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NEtFOSAA)	ND	4.56	10.8	**237**	Q	7.04	**153**	Q	61-139	**42**	Q	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	4.56	10.8	**237**	Q	7.04	**153**	Q	61-139	**42**	Q	30
Perfluorododecanoic Acid (PFDoA)	ND	4.56	4.45	98		4.73	103		69-135	6		30
Perfluorotridecanoic Acid (PFTrDA)	ND	4.56	4.37	96		4.38	95		66-139	0		30
Perfluorotetradecanoic Acid (PFTA)	ND	4.56	4.61	101		4.74	103		69-133	3		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	58		73		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	69		72		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	71		81		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**2**	Q	**4**	Q	34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**2**	Q	**5**	Q	31-134

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1502082-5 WG1502082-6 QC Sample: L2126736-01 Client ID: MS Sample												

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	65		69		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**62**	Q	**64**	Q	75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**62**	Q	**65**	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**65**	Q	**67**	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	**77**	Q	79		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	61		65		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	44		50		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	**58**	Q	62		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	65		69		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	47		39		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**74**	Q	80		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**62**	Q	**66**	Q	75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**60**	Q	**63**	Q	72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	77		82		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 QC Batch ID: WG1505612-6 WG1505612-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
Acenaphthene	ND	1570	1100	70		1600	100		31-137	37		50
1,2,4-Trichlorobenzene	ND	1570	1000	64		1500	97		38-107	40		50
Hexachlorobenzene	ND	1570	1000	64		1600	100		40-140	46		50
Bis(2-chloroethyl)ether	ND	1570	980	62		1400	90		40-140	35		50
2-Chloronaphthalene	ND	1570	1100	70		1600	100		40-140	37		50
1,2-Dichlorobenzene	ND	1570	990	63		1400	90		40-140	34		50
1,3-Dichlorobenzene	ND	1570	980	62		1400	90		40-140	35		50
1,4-Dichlorobenzene	ND	1570	980	62		1400	90		28-104	35		50
3,3'-Dichlorobenzidine	ND	1570	1100	70		1600	100		40-140	37		50
2,4-Dinitrotoluene	ND	1570	520	**33**	Q	940	61		40-132	**58**	Q	50
2,6-Dinitrotoluene	ND	1570	610	**39**	Q	1100	71		40-140	**57**	Q	50
Fluoranthene	310	1570	1200	57		1900	100		40-140	45		50
4-Chlorophenyl phenyl ether	ND	1570	1100	70		1700	110		40-140	43		50
4-Bromophenyl phenyl ether	ND	1570	1100	70		1700	110		40-140	43		50
Bis(2-chloroisopropyl)ether	ND	1570	1600	100		2200	140		40-140	32		50
Bis(2-chloroethoxy)methane	ND	1570	1000	64		1400	90		40-117	33		50
Hexachlorobutadiene	ND	1570	1100	70		1600	100		40-140	37		50
Hexachlorocyclopentadiene	ND	1570	ND	**0**	Q	210J	**14**	Q	40-140	NC		50
Hexachloroethane	ND	1570	670	43		1000	64		40-140	40		50
Isophorone	ND	1570	1000	64		1400	90		40-140	33		50
Naphthalene	24J	1570	1100	70		1600	100		40-140	37		50
Nitrobenzene	ND	1570	1200	76		1700	110		40-140	34		50
NDPA/DPA	ND	1570	1100	70		1700	110		36-157	43		50

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 QC Batch ID: WG1505612-6 WG1505612-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
n-Nitrosodi-n-propylamine	ND	1570	1100	70		1600	100		32-121	37		50
Bis(2-ethylhexyl)phthalate	ND	1570	1500	96		2100	140		40-140	33		50
Butyl benzyl phthalate	ND	1570	1200	76		1800	120		40-140	40		50
Di-n-butylphthalate	ND	1570	1200	76		1700	110		40-140	34		50
Di-n-octylphthalate	ND	1570	1400	89		2100	140		40-140	40		50
Diethyl phthalate	ND	1570	1100	70		1700	110		40-140	43		50
Dimethyl phthalate	ND	1570	1000	64		1500	97		40-140	40		50
Benzo(a)anthracene	160	1570	1200	66		1800	110		40-140	40		50
Benzo(a)pyrene	140J	1570	1200	76		1800	120		40-140	40		50
Benzo(b)fluoranthene	150	1570	1200	67		1800	110		40-140	40		50
Benzo(k)fluoranthene	56J	1570	1200	76		1800	120		40-140	40		50
Chrysene	150	1570	1200	67		1800	110		40-140	40		50
Acenaphthylene	ND	1570	1100	70		1600	100		40-140	37		50
Anthracene	41J	1570	1100	70		1600	100		40-140	37		50
Benzo(ghi)perylene	64J	1570	860	55		1200	77		40-140	33		50
Fluorene	ND	1570	1100	70		1700	110		40-140	43		50
Phenanthrene	150	1570	1100	60		1700	100		40-140	43		50
Dibenzo(a,h)anthracene	ND	1570	860	55		1300	84		40-140	41		50
Indeno(1,2,3-cd)pyrene	70J	1570	870	55		1400	90		40-140	47		50
Pyrene	270	1570	1200	59		1800	99		35-142	40		50
Biphenyl	ND	1570	1000	64		1500	97		37-127	40		50
4-Chloroaniline	ND	1570	1100	70		1200	77		40-140	9		50
2-Nitroaniline	ND	1570	1200	76		1900	120		47-134	45		50

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 QC Batch ID: WG1505612-6 WG1505612-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
3-Nitroaniline	ND	1570	1300	83		2000	**130**	Q	26-129	42		50
4-Nitroaniline	ND	1570	1300	83		1900	120		41-125	38		50
Dibenzofuran	ND	1570	1100	70		1700	110		40-140	43		50
2-Methylnaphthalene	ND	1570	1100	70		1600	100		40-140	37		50
1,2,4,5-Tetrachlorobenzene	ND	1570	1000	64		1600	100		40-117	46		50
Acetophenone	ND	1570	1000	64		1400	90		14-144	33		50
2,4,6-Trichlorophenol	ND	1570	1200	76		1800	120		30-130	40		50
p-Chloro-m-cresol	ND	1570	1200	76		1900	**120**	Q	26-103	45		50
2-Chlorophenol	ND	1570	1100	70		1600	100		25-102	37		50
2,4-Dichlorophenol	ND	1570	1200	76		1700	110		30-130	34		50
2,4-Dimethylphenol	ND	1570	1100	70		1600	100		30-130	37		50
2-Nitrophenol	ND	1570	360J	**23**	Q	740	48		30-130	**69**	Q	50
4-Nitrophenol	ND	1570	880	56		1500	97		11-114	**52**	Q	50
2,4-Dinitrophenol	ND	1570	ND	**0**	Q	ND	**0**	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1570	ND	**0**	Q	ND	**0**	Q	10-130	NC		50
Pentachlorophenol	ND	1570	920	59		1500	97		17-109	48		50
Phenol	ND	1570	1000	64		1500	**97**	Q	26-90	40		50
2-Methylphenol	ND	1570	1100	70		1600	100		30-130.	37		50
3-Methylphenol/4-Methylphenol	ND	1570	1100	70		1600	100		30-130	37		50
2,4,5-Trichlorophenol	ND	1570	1200	76		1800	120		30-130	40		50
Benzoic Acid	ND	1570	ND	**0**	Q	ND	**0**	Q	10-110	NC		50
Benzyl Alcohol	ND	1570	1100	70		1600	100		40-140	37		50
Carbazole	ND	1570	1100	70		1700	110		54-128	43		50

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 QC Batch ID: WG1505612-6 WG1505612-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
1,4-Dioxane	ND	1570	700	45		940	61		40-140	29		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	70		106		10-136
2-Fluorobiphenyl	70		98		30-120
2-Fluorophenol	75		109		25-120
4-Terphenyl-d14	63		88		18-120
Nitrobenzene-d5	74		107		23-120
Phenol-d6	68		100		10-120

PCBS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05
Client ID: 7-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 09:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/31/21 18:40
Analyst: JM
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:44
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	45.0	3.99	1	A
Aroclor 1221	ND		ug/kg	45.0	4.50	1	A
Aroclor 1232	ND		ug/kg	45.0	9.53	1	A
Aroclor 1242	ND		ug/kg	45.0	6.06	1	A
Aroclor 1248	ND		ug/kg	45.0	6.74	1	A
Aroclor 1254	ND		ug/kg	45.0	4.92	1	A
Aroclor 1260	ND		ug/kg	45.0	8.31	1	A
Aroclor 1262	ND		ug/kg	45.0	5.71	1	A
Aroclor 1268	ND		ug/kg	45.0	4.66	1	A
PCBs, Total	ND		ug/kg	45.0	3.99	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/31/21 18:25
Analyst: JM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:44
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.5	3.33	1	A
Aroclor 1221	ND		ug/kg	37.5	3.76	1	A
Aroclor 1232	ND		ug/kg	37.5	7.94	1	A
Aroclor 1242	ND		ug/kg	37.5	5.05	1	A
Aroclor 1248	ND		ug/kg	37.5	5.62	1	A
Aroclor 1254	ND		ug/kg	37.5	4.10	1	A
Aroclor 1260	ND		ug/kg	37.5	6.93	1	A
Aroclor 1262	ND		ug/kg	37.5	4.76	1	A
Aroclor 1268	ND		ug/kg	37.5	3.88	1	A
PCBs, Total	ND		ug/kg	37.5	3.33	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	125		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10
Client ID: 3-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 14:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/31/21 18:33
Analyst: JM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:44
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	3.28	1	A
Aroclor 1221	ND		ug/kg	37.0	3.70	1	A
Aroclor 1232	ND		ug/kg	37.0	7.84	1	A
Aroclor 1242	ND		ug/kg	37.0	4.98	1	A
Aroclor 1248	ND		ug/kg	37.0	5.55	1	A
Aroclor 1254	ND		ug/kg	37.0	4.04	1	A
Aroclor 1260	ND		ug/kg	37.0	6.83	1	A
Aroclor 1262	ND		ug/kg	37.0	4.70	1	A
Aroclor 1268	ND		ug/kg	37.0	3.83	1	A
PCBs, Total	ND		ug/kg	37.0	3.28	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/31/21 17:50
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:32
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 05,07,10 Batch: WG1505611-1						
Aroclor 1016	ND		ug/kg	31.9	2.83	A
Aroclor 1221	ND		ug/kg	31.9	3.20	A
Aroclor 1232	ND		ug/kg	31.9	6.76	A
Aroclor 1242	ND		ug/kg	31.9	4.30	A
Aroclor 1248	ND		ug/kg	31.9	4.79	A
Aroclor 1254	ND		ug/kg	31.9	3.49	A
Aroclor 1260	ND		ug/kg	31.9	5.90	A
Aroclor 1262	ND		ug/kg	31.9	4.05	A
Aroclor 1268	ND		ug/kg	31.9	3.30	A
PCBs, Total	ND		ug/kg	31.9	2.83	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	61		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 05,07,10 Batch: WG1505611-2 WG1505611-3									
Aroclor 1016	87		78		40-140	11		50	A
Aroclor 1260	71		66		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		72		30-150	A
Decachlorobiphenyl	61		56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		76		30-150	B
Decachlorobiphenyl	61		56		30-150	B

PESTICIDES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05
Client ID: 7-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 09:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/01/21 14:11
Analyst: AR
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/01/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.09	0.410	1	B
Lindane	ND		ug/kg	0.872	0.390	1	B
Alpha-BHC	ND		ug/kg	0.872	0.248	1	B
Beta-BHC	ND		ug/kg	2.09	0.793	1	B
Heptachlor	ND		ug/kg	1.05	0.469	1	B
Aldrin	ND		ug/kg	2.09	0.737	1	B
Heptachlor epoxide	ND		ug/kg	3.92	1.18	1	B
Endrin	ND		ug/kg	0.872	0.357	1	B
Endrin aldehyde	ND		ug/kg	2.62	0.915	1	B
Endrin ketone	ND		ug/kg	2.09	0.539	1	B
Dieldrin	ND		ug/kg	1.31	0.654	1	B
4,4'-DDE	ND		ug/kg	2.09	0.484	1	B
4,4'-DDD	ND		ug/kg	2.09	0.746	1	B
4,4'-DDT	4.76	P	ug/kg	3.92	1.68	1	B
Endosulfan I	ND		ug/kg	2.09	0.494	1	B
Endosulfan II	ND		ug/kg	2.09	0.699	1	B
Endosulfan sulfate	ND		ug/kg	0.872	0.415	1	B
Methoxychlor	ND		ug/kg	3.92	1.22	1	B
Toxaphene	ND		ug/kg	39.2	11.0	1	B
cis-Chlordane	ND		ug/kg	2.62	0.729	1	B
trans-Chlordane	ND		ug/kg	2.62	0.690	1	B
Chlordane	ND		ug/kg	17.4	6.93	1	B

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05 Date Collected: 05/19/21 09:45

Client ID: 7-B2 (6.5-7) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**20**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/01/21 14:00
Analyst: AR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/01/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.88	0.369	1	B
Lindane	ND		ug/kg	0.786	0.351	1	B
Alpha-BHC	ND		ug/kg	0.786	0.223	1	B
Beta-BHC	ND		ug/kg	1.88	0.715	1	B
Heptachlor	ND		ug/kg	0.943	0.423	1	B
Aldrin	ND		ug/kg	1.88	0.664	1	B
Heptachlor epoxide	ND		ug/kg	3.54	1.06	1	B
Endrin	ND		ug/kg	0.786	0.322	1	B
Endrin aldehyde	ND		ug/kg	2.36	0.825	1	B
Endrin ketone	ND		ug/kg	1.88	0.485	1	B
Dieldrin	4.49	P	ug/kg	1.18	0.589	1	B
4,4'-DDE	6.69	P	ug/kg	1.88	0.436	1	B
4,4'-DDD	8.24	P	ug/kg	1.88	0.672	1	B
4,4'-DDT	ND		ug/kg	3.54	1.52	1	B
Endosulfan I	ND		ug/kg	1.88	0.445	1	B
Endosulfan II	ND		ug/kg	1.88	0.630	1	B
Endosulfan sulfate	ND		ug/kg	0.786	0.374	1	B
Methoxychlor	ND		ug/kg	3.54	1.10	1	B
Toxaphene	ND		ug/kg	35.4	9.90	1	B
cis-Chlordane	ND		ug/kg	2.36	0.657	1	B
trans-Chlordane	ND		ug/kg	2.36	0.622	1	B
Chlordane	ND		ug/kg	15.7	6.24	1	B

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 Date Collected: 05/19/21 11:15

Client ID: 7-B1 (9-10) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**13**	Q	30-150	A
Decachlorobiphenyl	**1**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10
Client ID: 3-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 14:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/01/21 14:22
Analyst: AR
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/01/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.730	0.326	1	A
Alpha-BHC	ND		ug/kg	0.730	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.664	1	A
Heptachlor	ND		ug/kg	0.876	0.393	1	A
Aldrin	ND		ug/kg	1.75	0.617	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.986	1	A
Endrin	ND		ug/kg	0.730	0.299	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.767	1	A
Endrin ketone	ND		ug/kg	1.75	0.451	1	A
Dieldrin	ND		ug/kg	1.10	0.548	1	A
4,4'-DDE	ND		ug/kg	1.75	0.405	1	A
4,4'-DDD	ND		ug/kg	1.75	0.625	1	A
4,4'-DDT	ND		ug/kg	3.29	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.586	1	A
Endosulfan sulfate	ND		ug/kg	0.730	0.348	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.20	1	A
cis-Chlordane	ND		ug/kg	2.19	0.610	1	A
trans-Chlordane	ND		ug/kg	2.19	0.578	1	A
Chlordane	ND		ug/kg	14.6	5.80	1	A

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10 Date Collected: 05/19/21 14:00

Client ID: 3-B1 (7.5-8) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/01/21 11:07
Analyst: JMC

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/01/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05,07,10 Batch: WG1505609-1						
Delta-BHC	ND		ug/kg	1.50	0.295	A
Lindane	ND		ug/kg	0.627	0.280	A
Alpha-BHC	ND		ug/kg	0.627	0.178	A
Beta-BHC	ND		ug/kg	1.50	0.570	A
Heptachlor	ND		ug/kg	0.752	0.337	A
Aldrin	ND		ug/kg	1.50	0.530	A
Heptachlor epoxide	ND		ug/kg	2.82	0.846	A
Endrin	ND		ug/kg	0.627	0.257	A
Endrin aldehyde	ND		ug/kg	1.88	0.658	A
Endrin ketone	ND		ug/kg	1.50	0.387	A
Dieldrin	ND		ug/kg	0.940	0.470	A
4,4'-DDE	ND		ug/kg	1.50	0.348	A
4,4'-DDD	ND		ug/kg	1.50	0.537	A
4,4'-DDT	ND		ug/kg	2.82	1.21	A
Endosulfan I	ND		ug/kg	1.50	0.355	A
Endosulfan II	ND		ug/kg	1.50	0.503	A
Endosulfan sulfate	ND		ug/kg	0.627	0.298	A
Methoxychlor	ND		ug/kg	2.82	0.878	A
Toxaphene	ND		ug/kg	28.2	7.90	A
cis-Chlordane	ND		ug/kg	1.88	0.524	A
trans-Chlordane	ND		ug/kg	1.88	0.496	A
Chlordane	ND		ug/kg	12.5	4.98	A

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/01/21 11:07
Analyst: JMC

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/01/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05,07,10 Batch: WG1505609-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	70		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05,07,10 Batch: WG1505609-2 WG1505609-3									
Delta-BHC	87		105		30-150	19		30	A
Lindane	83		101		30-150	20		30	A
Alpha-BHC	87		106		30-150	20		30	A
Beta-BHC	88		97		30-150	10		30	A
Heptachlor	86		104		30-150	19		30	A
Aldrin	85		106		30-150	22		30	A
Heptachlor epoxide	80		100		30-150	22		30	A
Endrin	85		106		30-150	22		30	A
Endrin aldehyde	68		79		30-150	15		30	A
Endrin ketone	80		102		30-150	24		30	A
Dieldrin	89		112		30-150	23		30	A
4,4'-DDE	86		109		30-150	24		30	A
4,4'-DDD	92		115		30-150	22		30	A
4,4'-DDT	97		120		30-150	21		30	A
Endosulfan I	82		103		30-150	23		30	A
Endosulfan II	85		105		30-150	21		30	A
Endosulfan sulfate	68		82		30-150	19		30	A
Methoxychlor	94		112		30-150	17		30	A
cis-Chlordane	77		95		30-150	21		30	A
trans-Chlordane	80		99		30-150	21		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05,07,10 Batch: WG1505609-2 WG1505609-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		101		30-150	A
Decachlorobiphenyl	79		90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		91		30-150	B
Decachlorobiphenyl	71		82		30-150	B

METALS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05
Client ID: 7-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 09:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Total Metals - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	4510		mg/kg	10.4	2.81	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	5.20	0.395	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Arsenic, Total	3.48		mg/kg	1.04	0.216	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Barium, Total	52.5		mg/kg	1.04	0.181	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Beryllium, Total	0.270	J	mg/kg	0.520	0.034	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Cadmium, Total	0.375	J	mg/kg	1.04	0.102	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Calcium, Total	76000		mg/kg	10.4	3.64	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Chromium, Total	31.6		mg/kg	1.04	0.100	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Cobalt, Total	5.64		mg/kg	2.08	0.173	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Copper, Total	25.8		mg/kg	1.04	0.268	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Iron, Total	12300		mg/kg	5.20	0.940	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Lead, Total	30.1		mg/kg	5.20	0.279	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Magnesium, Total	17400		mg/kg	10.4	1.60	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Manganese, Total	177		mg/kg	1.04	0.165	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Mercury, Total	0.190		mg/kg	0.086	0.056	1	05/29/21 08:55	06/01/21 19:46	EPA 7471B	1,7471B	OU
Nickel, Total	9.86		mg/kg	2.60	0.252	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Potassium, Total	905		mg/kg	260	15.0	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Selenium, Total	1.16	J	mg/kg	2.08	0.268	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	1.04	0.294	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Sodium, Total	464		mg/kg	208	3.28	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	2.08	0.328	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Vanadium, Total	31.7		mg/kg	1.04	0.211	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Zinc, Total	60.3		mg/kg	5.20	0.305	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8940		mg/kg	9.37	2.53	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Antimony, Total	3.87	J	mg/kg	4.68	0.356	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Arsenic, Total	2.58		mg/kg	0.937	0.195	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Barium, Total	52.3		mg/kg	0.937	0.163	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Beryllium, Total	0.534		mg/kg	0.468	0.031	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Cadmium, Total	0.450	J	mg/kg	0.937	0.092	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Calcium, Total	2380		mg/kg	9.37	3.28	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Chromium, Total	35.8		mg/kg	0.937	0.090	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Cobalt, Total	7.21		mg/kg	1.87	0.155	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Copper, Total	53.3		mg/kg	0.937	0.242	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Iron, Total	16400		mg/kg	4.68	0.846	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Lead, Total	59.9		mg/kg	4.68	0.251	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Magnesium, Total	1950		mg/kg	9.37	1.44	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Manganese, Total	387		mg/kg	0.937	0.149	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Mercury, Total	0.984		mg/kg	0.075	0.049	1	05/29/21 08:55	06/01/21 19:49	EPA 7471B	1,7471B	OU
Nickel, Total	16.2		mg/kg	2.34	0.227	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Potassium, Total	2760		mg/kg	234	13.5	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Selenium, Total	0.852	J	mg/kg	1.87	0.242	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.937	0.265	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Sodium, Total	634		mg/kg	187	2.95	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.87	0.295	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Vanadium, Total	17.4		mg/kg	0.937	0.190	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Zinc, Total	248		mg/kg	4.68	0.274	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10
Client ID: 3-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 14:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6170		mg/kg	8.93	2.41	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Antimony, Total	0.357	J	mg/kg	4.47	0.339	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Arsenic, Total	3.19		mg/kg	0.893	0.186	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Barium, Total	60.3		mg/kg	0.893	0.155	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Beryllium, Total	0.330	J	mg/kg	0.447	0.030	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Cadmium, Total	0.268	J	mg/kg	0.893	0.088	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Calcium, Total	1060		mg/kg	8.93	3.13	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Chromium, Total	19.7		mg/kg	0.893	0.086	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Cobalt, Total	5.53		mg/kg	1.79	0.148	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Copper, Total	15.0		mg/kg	0.893	0.230	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Iron, Total	12600		mg/kg	4.47	0.807	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Lead, Total	78.2		mg/kg	4.47	0.239	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Magnesium, Total	1890		mg/kg	8.93	1.38	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Manganese, Total	122		mg/kg	0.893	0.142	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Mercury, Total	0.522		mg/kg	0.072	0.047	1	05/29/21 08:55	06/01/21 19:52	EPA 7471B	1,7471B	OU
Nickel, Total	10.6		mg/kg	2.23	0.216	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Potassium, Total	547		mg/kg	223	12.9	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Selenium, Total	0.474	J	mg/kg	1.79	0.230	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.893	0.253	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Sodium, Total	63.9	J	mg/kg	179	2.81	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.79	0.281	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Vanadium, Total	20.3		mg/kg	0.893	0.181	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Zinc, Total	38.4		mg/kg	4.47	0.262	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05,07,10 Batch: WG1505095-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Barium, Total	ND		mg/kg	0.400	0.070	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Copper, Total	ND		mg/kg	0.400	0.103	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Iron, Total	1.03	J	mg/kg	2.00	0.361	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Lead, Total	ND		mg/kg	2.00	0.107	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Manganese, Total	0.080	J	mg/kg	0.400	0.064	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Potassium, Total	ND		mg/kg	100	5.76	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Silver, Total	ND		mg/kg	0.400	0.113	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Sodium, Total	1.36	J	mg/kg	80.0	1.26	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05,07,10 Batch: WG1505096-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/29/21 08:55	06/01/21 19:19	1,7471B	OU

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,07,10 Batch: WG1505095-2 SRM Lot Number: D109-540								
Aluminum, Total	77		-		50-150	-		
Antimony, Total	141		-		19-250	-		
Arsenic, Total	117		-		70-130	-		
Barium, Total	105		-		75-125	-		
Beryllium, Total	112		-		75-125	-		
Cadmium, Total	117		-		75-125	-		
Calcium, Total	108		-		73-128	-		
Chromium, Total	112		-		70-130	-		
Cobalt, Total	114		-		75-125	-		
Copper, Total	116		-		75-125	-		
Iron, Total	103		-		35-165	-		
Lead, Total	112		-		72-128	-		
Magnesium, Total	98		-		62-138	-		
Manganese, Total	117		-		74-126	-		
Nickel, Total	115		-		70-130	-		
Potassium, Total	96		-		59-141	-		
Selenium, Total	118		-		68-132	-		
Silver, Total	115		-		68-131	-		
Sodium, Total	106		-		35-165	-		
Thallium, Total	118		-		68-131	-		
Vanadium, Total	109		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,07,10 Batch: WG1505095-2 SRM Lot Number: D109-540					
Zinc, Total	113	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 05,07,10 Batch: WG1505096-2 SRM Lot Number: D109-540					
Mercury, Total	104	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1505095-3 WG1505095-4 QC Sample: L2126802-04 Client ID: MS Sample												
Aluminum, Total	7590	176	10800	**1830**	Q	9870	**1350**	Q	75-125	9		20
Antimony, Total	ND	43.9	34.8	79		31.2	**74**	Q	75-125	11		20
Arsenic, Total	5.52	10.5	18.4	122		16.6	109		75-125	10		20
Barium, Total	499	176	623	**70**	Q	532	**20**	Q	75-125	16		20
Beryllium, Total	0.319J	4.39	5.52	**126**	Q	5.06	120		75-125	9		20
Cadmium, Total	1.01	4.48	5.80	107		5.31	100		75-125	9		20
Calcium, Total	17400	878	13800	**0**	Q	14500	**0**	Q	75-125	5		20
Chromium, Total	20.9	17.6	46.4	**145**	Q	43.4	**133**	Q	75-125	7		20
Cobalt, Total	5.82	43.9	52.7	107		48.1	100		75-125	9		20
Copper, Total	32.7	22	68.6	**163**	Q	67.0	**162**	Q	75-125	2		20
Iron, Total	13800	87.8	17400	**4100**	Q	16000	**2610**	Q	75-125	8		20
Lead, Total	741	44.8	761	**45**	Q	710	**0**	Q	75-125	7		20
Magnesium, Total	2510	878	4130	**184**	Q	3880	**162**	Q	75-125	6		20
Manganese, Total	274	43.9	419	**330**	Q	335	**144**	Q	75-125	**22**	Q	20
Nickel, Total	13.4	43.9	60.8	108		55.6	100		75-125	9		20
Potassium, Total	498	878	1630	**129**	Q	1490	118		75-125	9		20
Selenium, Total	1.04J	10.5	12.0	114		10.8	107		75-125	11		20
Silver, Total	ND	26.4	32.0	121		30.4	120		75-125	5		20
Sodium, Total	731	878	1820	124		1690	114		75-125	7		20
Thallium, Total	ND	10.5	9.64	91		9.22	91		75-125	4		20
Vanadium, Total	22.7	43.9	77.3	124		71.4	115		75-125	8		20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1505095-3 WG1505095-4 QC Sample: L2126802-04 Client ID: MS Sample										
Zinc, Total	410	43.9	492	**187**	Q	442	76	75-125	11	20
Total Metals - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1505096-3 WG1505096-4 QC Sample: L2126802-04 Client ID: MS Sample										
Mercury, Total	0.694	0.142	0.818	87		0.851	112	80-120	4	20

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1505095-6 QC Sample: L2126802-04 Client ID: DUP Sample						
Aluminum, Total	7590	8160	mg/kg	8		20
Barium, Total	499	531	mg/kg	6		20
Calcium, Total	17400	19000	mg/kg	9		20
Copper, Total	32.7	35.7	mg/kg	9		20
Iron, Total	13800	15200	mg/kg	10		20
Lead, Total	741	827	mg/kg	12		20
Magnesium, Total	2510	2880	mg/kg	15		20
Manganese, Total	274	304	mg/kg	11		20
Vanadium, Total	22.7	24.5	mg/kg	8		20
Zinc, Total	410	458	mg/kg	12		20

INORGANICS
&
MISCELLANEOUS

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-02
Client ID: 10-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 08:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.7		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-03
Client ID: 10-B1 (22-22.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 08:40
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-04
Client ID: DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 08:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05
Client ID: 7-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/19/21 09:45
Date Received: 05/20/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.3		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-06
Client ID: 7-B2 (14-14.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/19/21 10:00
Date Received: 05/20/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	46.1		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-08
Client ID: 7-B1 (27-27.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/19/21 11:50
Date Received: 05/20/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.1		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09
Client ID: 7-B3 (10.5-11.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 13:20
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10
Client ID: 3-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 14:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.5		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-11
Client ID: 3-B1 (17.5-18)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 14:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	30.7		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-11 QC Batch ID: WG1501908-1 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)						
Solids, Total	83.7	84.0	%	0		20

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126605-01A	Plastic 250ml unpreserved	B	NA		5.2	Y	Absent		CANCELLED()
L2126605-02A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02A1	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02A2	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02B1	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02B2	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02C1	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02C2	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-02D1	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-02D2	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-02E	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L2126605-02E1	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L2126605-02E2	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L2126605-02X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02X1	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02X2	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-02Y1	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-02Y2	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126605-02Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-02Z1	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-02Z2	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-03A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-03B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-03C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-03D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-03X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-03Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-03Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-04A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-04B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-04C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-04D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-04E	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L2126605-04X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-04Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-04Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-05A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-05B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-05C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-05D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-05D1	Plastic 2oz unpreserved for TS	B	NA		5.2	Y	Absent		TS(7)
L2126605-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2126605-05F	Plastic 8oz unpreserved	B	NA		5.2	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126605-05G	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2126605-05X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-05Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-05Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-06A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-06B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-06C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-06D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-06X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-06Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-06Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-07A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-07B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-07C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-07D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-07D1	Plastic 2oz unpreserved for TS	B	NA		5.2	Y	Absent		TS(7)
L2126605-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2126605-07F	Plastic 8oz unpreserved	B	NA		5.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2126605-07G	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2126605-07X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-07Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-07Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-08A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-08B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-08C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126605-08D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-08X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-08Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-08Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-09A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2126605-09B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2126605-09C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2126605-09D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-09E	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L2126605-09X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2126605-09Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2126605-09Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2126605-10A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-10B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-10C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-10D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-10D1	Plastic 2oz unpreserved for TS	B	NA		5.2	Y	Absent		TS(7)
L2126605-10E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2126605-10F	Plastic 8oz unpreserved	B	NA		5.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2126605-10G	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2126605-10X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-10Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-10Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-11A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-11B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126605-11C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-11D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-11X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-11Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-11Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	AVANT GARDNER	**Lab Number:**	L2126605
Project Number:	17244793	**Report Date:**	06/11/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2126605
Project Number:	17244793	**Report Date:**	06/11/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2126605
Project Number:	17244793	**Report Date:**	06/11/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Project Name:	AVANT GARDNER	**Lab Number:**	L2126605
Project Number:	17244793	**Report Date:**	06/11/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 5/21/21

ALPHA Job #: L2126605

Client Information
Client: PSG (partnersinc.com)
Address: 611 Industrial Way West
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLENTE partnersinc.com

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project #: 17243313
(Use Project name as Project #) [X]
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables
- [ ] ASP-A
- [ ] ASP-B
- [X] EQuIS (1 File)
- [X] EQuIS (4 File)
- [ ] Other

Regulatory Requirement
- [X] NY TOGS
- [ ] NY Part 375
- [X] AWQ Standards
- [X] NY CP-51
- [X] NY Restricted Use
- [ ] Other
- [X] NY Unrestricted Use
- [ ] NYC Sewer Discharge

Billing Information
- [X] Same as Client Info

PO # 17243313

Disposal Site Information
Please identify below location of applicable disposal facilities.

Disposal Facility:
- [ ] NJ
- [ ] NY
- [ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL. TAL

ANALYSIS

Sample Filtration
- [ ] Done
- [ ] Lab to do

Preservation
- [ ] Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs (8260)	SVOCs (8270)	TAL metals	PCBs	pesticides	PFAs	1,4 Dioxane	Total Bottle	Sample Specific Comments
26605-01	Field Blank	5-19-21	1400	-	AH						X	-		
-02	10-B1 (8.5-9)		800	S	AH	X	X							
-03	10-B1 (22-22.5)		840	S	AH	X								
-04	DUP		800	S	AH	X	X							
-02	MS		800	S	AH	X	X							
↓	MSD		800	S	AH	X	X							
-05	7-B2 (6.5-7)		945	S	AH	X	X	X	X	X	X	X		
-06	7-B2 (14-14.5)		1000	S	AH	X								
-07	7-B1 (9-10)		1115	S	AH	X	X	X	X	X	X	X		
-08	7-B1 (27-27.5)	↓	1150	S	AH	X								

Container Type: E | A | A | A | A | P | A
Preservative: A | A | A | A | A | A | A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5-19-21 1500		
	5/19/21 1735		5/20/21 1210
	5/21/21 0850		5/21/21 0850

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 5/21/21

ALPHA Job #: L2126605

Client Information

Client: PSG (partner)
Address: 611 Industrial Way W
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLENTE@partnereng.com

Project Information

Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project #: 1724-3313
(Use Project name as Project #): ☑
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☒ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO # 1724 3313

Regulatory Requirement

☒ NY TOGS ☐ NY Part 375
☒ AWQ Standards ☒ NY CP-51
☒ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL. TAL Metals.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs (8260)	SVOCs (8270)	TAL Metals	PCBs	Pesticides	PFAs	1,4-Dioxane	Total Bottle	Sample Specific Comments
26605-09	7-B3 (10.5-11.5)	5-19-21	1320	S	AH	X	X							
-10	3-B1 (7.5-8)	5-19-21	1400	S	AH	X	X	X	X	X	X	X		
-11	3-B1 (17.5-18)	5-19-21	1445	S	AH	X								

Container Type: E A A A A P A
Preservative: A A A B A A B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5-19 1500		5/20/21 12:16
	5/21/21 0053		5/21/21 00:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTITUTIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2126901
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER
Project Number:	17244793
Report Date:	06/28/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2126901-01	2-B1 (7.5-8)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 07:00	05/21/21
L2126901-02	2-B1 (24.5-25)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 07:35	05/21/21
L2126901-03	1-B1 (7.5-8.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 08:40	05/21/21
L2126901-04	1-B1 (24.5-25)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 09:15	05/21/21
L2126901-05	4-B1 (6.5-7)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 10:30	05/21/21
L2126901-06	4-B1 (24-24.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 11:00	05/21/21
L2126901-07	10-B2 (8.5-9)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 12:15	05/21/21
L2126901-08	10-B2 (34.5-35)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 13:00	05/21/21
L2126901-09	9-B1 (6-7)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 07:30	05/21/21
L2126901-10	9-B1 (8.5-9)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 07:45	05/21/21

Project Name:	AVANT GARDNER	**Lab Number:**	L2126901
Project Number:	17244793	**Report Date:**	06/28/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	AVANT GARDNER	**Lab Number:**	L2126901
Project Number:	17244793	**Report Date:**	06/28/21

Case Narrative (continued)

Report Revision

June 28, 2021: All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

June 07, 2021: The project number has been amended.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2126901-07: The sample identified as "10-B2" on the chain of custody was identified as "10-B2 (8.5-9)" on the container label. At the client's request, the sample is reported as "10-B2 (8.5-9)".

Volatile Organics

L2126901-04: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (35%) and the surrogate recovery for 4-bromofluorobenzene (132%) were outside the acceptance criteria; however, re-analysis achieved a similar result: 1,4-dichlorobenzene-d4 (42%). The results of both analyses are reported.

L2126901-06: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (29%) and the surrogate recovery for 4-bromofluorobenzene (132%) were outside the acceptance criteria; however, re-analysis achieved similar results: 1,4-dichlorobenzene-d4 (26%) and 4-bromofluorobenzene (139%). The results of both analyses are reported.

Perfluorinated Alkyl Acids by Isotope Dilution

L2126901-05 and WG1502698-2: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2126901-05: The MeOH fraction of the extraction is reported for Perfluorooctanesulfonamide (FOSA) due to better extraction efficiency of the M8FOSA Surrogate (Extracted Internal Standard).

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Case Narrative (continued)

Total Metals

L2126901-03, -05, -07, and -09: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1504105-1 Method Blank, associated with L2126901-03, -05, -07, and -09, has concentrations above the reporting limits for calcium and iron. Since the associated sample concentrations are greater than 10x the blank concentrations for these analytes, no corrective action is required.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 06/28/21

ORGANICS

VOLATILES

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-01
Client ID: 2-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:00
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/25/21 19:23
Analyst: JC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.97	0.53	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	1.9	0.57	1
Vinyl chloride	ND		ug/kg	0.97	0.33	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-01 Date Collected: 05/20/21 07:00

Client ID: 2-B1 (7.5-8) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.89	1
Acetone	15		ug/kg	9.7	4.7	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	2.8	J	ug/kg	9.7	2.2	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.2	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.12	1
o-Chlorotoluene	ND		ug/kg	1.9	0.19	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.97	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.11	1
Naphthalene	ND		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-01 Date Collected: 05/20/21 07:00

Client ID: 2-B1 (7.5-8) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.97	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	78	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	0.21	J	ug/kg	1.9	0.19	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-02
Client ID: 2-B1 (24.5-25)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/20/21 07:35
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/25/21 20:02
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	0.22	J	ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-02 Date Collected: 05/20/21 07:35

Client ID: 2-B1 (24.5-25) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	1.8	J	ug/kg	2.2	0.61	1
o-Xylene	1.7		ug/kg	1.1	0.32	1
Xylenes, Total	3.5	J	ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	27		ug/kg	11	5.2	1
Carbon disulfide	4.9	J	ug/kg	11	4.9	1
2-Butanone	6.6	J	ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	0.36	J	ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	120		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-02 Date Collected: 05/20/21 07:35

Client ID: 2-B1 (24.5-25) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	0.46	J	ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	1.1	J	ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	0.28	J	ug/kg	2.2	0.19	1
p-Ethyltoluene	0.55	J	ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	0.54	J	ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03
Client ID: 1-B1 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 08:40
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/26/21 04:36
Analyst: JC
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.89	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	2.8		ug/kg	0.64	0.21	1
Toluene	1.1	J	ug/kg	1.3	0.70	1
Ethylbenzene	0.87	J	ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.6	0.74	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03 Date Collected: 05/20/21 08:40

Client ID: 1-B1 (7.5-8.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.64	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	3.9		ug/kg	2.6	0.72	1
o-Xylene	1.0	J	ug/kg	1.3	0.37	1
Xylenes, Total	4.9	J	ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	42		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	12	J	ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	6.2		ug/kg	1.3	0.21	1
sec-Butylbenzene	3.5		ug/kg	1.3	0.19	1
tert-Butylbenzene	10		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.24	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.22	1
Isopropylbenzene	3.7		ug/kg	1.3	0.14	1
p-Isopropyltoluene	5.7		ug/kg	1.3	0.14	1
Naphthalene	100		ug/kg	5.1	0.83	1
Acrylonitrile	ND		ug/kg	5.1	1.5	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03 Date Collected: 05/20/21 08:40

Client ID: 1-B1 (7.5-8.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	5.1		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	3.4		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	1.3	J	ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	27		ug/kg	2.6	0.23	1
p-Ethyltoluene	3.0		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	140		ug/kg	2.6	0.24	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	99		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-04
Client ID: 1-B1 (24.5-25)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/20/21 09:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/25/21 20:42
Analyst: JC
Percent Solids: 43%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	19	8.7	1
1,1-Dichloroethane	ND		ug/kg	3.8	0.55	1
Chloroform	ND		ug/kg	5.7	0.53	1
Carbon tetrachloride	ND		ug/kg	3.8	0.87	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.47	1
Dibromochloromethane	ND		ug/kg	3.8	0.53	1
1,1,2-Trichloroethane	ND		ug/kg	3.8	1.0	1
Tetrachloroethene	ND		ug/kg	1.9	0.74	1
Chlorobenzene	ND		ug/kg	1.9	0.48	1
Trichlorofluoromethane	ND		ug/kg	15	2.6	1
1,2-Dichloroethane	ND		ug/kg	3.8	0.97	1
1,1,1-Trichloroethane	ND		ug/kg	1.9	0.63	1
Bromodichloromethane	ND		ug/kg	1.9	0.41	1
trans-1,3-Dichloropropene	ND		ug/kg	3.8	1.0	1
cis-1,3-Dichloropropene	ND		ug/kg	1.9	0.60	1
1,3-Dichloropropene, Total	ND		ug/kg	1.9	0.60	1
1,1-Dichloropropene	ND		ug/kg	1.9	0.60	1
Bromoform	ND		ug/kg	15	0.93	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.9	0.63	1
Benzene	ND		ug/kg	1.9	0.63	1
Toluene	2.2	J	ug/kg	3.8	2.0	1
Ethylbenzene	1.3	J	ug/kg	3.8	0.53	1
Chloromethane	ND		ug/kg	15	3.5	1
Bromomethane	ND		ug/kg	7.6	2.2	1
Vinyl chloride	ND		ug/kg	3.8	1.3	1
Chloroethane	ND		ug/kg	7.6	1.7	1
1,1-Dichloroethene	ND		ug/kg	3.8	0.90	1
trans-1,2-Dichloroethene	ND		ug/kg	5.7	0.52	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-04 Date Collected: 05/20/21 09:15

Client ID: 1-B1 (24.5-25) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.9	0.52	1
1,2-Dichlorobenzene	ND		ug/kg	7.6	0.54	1
1,3-Dichlorobenzene	ND		ug/kg	7.6	0.56	1
1,4-Dichlorobenzene	ND		ug/kg	7.6	0.65	1
Methyl tert butyl ether	ND		ug/kg	7.6	0.76	1
p/m-Xylene	ND		ug/kg	7.6	2.1	1
o-Xylene	ND		ug/kg	3.8	1.1	1
Xylenes, Total	ND		ug/kg	3.8	1.1	1
cis-1,2-Dichloroethene	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethene, Total	ND		ug/kg	3.8	0.52	1
Dibromomethane	ND		ug/kg	7.6	0.90	1
Styrene	ND		ug/kg	3.8	0.74	1
Dichlorodifluoromethane	ND		ug/kg	38	3.5	1
Acetone	160		ug/kg	38	18.	1
Carbon disulfide	ND		ug/kg	38	17.	1
2-Butanone	35	J	ug/kg	38	8.4	1
Vinyl acetate	ND		ug/kg	38	8.1	1
4-Methyl-2-pentanone	ND		ug/kg	38	4.8	1
1,2,3-Trichloropropane	ND		ug/kg	7.6	0.48	1
2-Hexanone	ND		ug/kg	38	4.5	1
Bromochloromethane	ND		ug/kg	7.6	0.78	1
2,2-Dichloropropane	ND		ug/kg	7.6	0.76	1
1,2-Dibromoethane	ND		ug/kg	3.8	1.0	1
1,3-Dichloropropane	ND		ug/kg	7.6	0.63	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.9	0.50	1
Bromobenzene	ND		ug/kg	7.6	0.55	1
n-Butylbenzene	ND		ug/kg	3.8	0.63	1
sec-Butylbenzene	ND		ug/kg	3.8	0.55	1
tert-Butylbenzene	ND		ug/kg	7.6	0.45	1
o-Chlorotoluene	ND		ug/kg	7.6	0.72	1
p-Chlorotoluene	ND		ug/kg	7.6	0.41	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	11	3.8	1
Hexachlorobutadiene	ND		ug/kg	15	0.64	1
Isopropylbenzene	ND		ug/kg	3.8	0.41	1
p-Isopropyltoluene	ND		ug/kg	3.8	0.41	1
Naphthalene	14	J	ug/kg	15	2.5	1
Acrylonitrile	ND		ug/kg	15	4.4	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-04 Date Collected: 05/20/21 09:15

Client ID: 1-B1 (24.5-25) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	3.8	0.65	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.6	1.2	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.6	1.0	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.6	0.73	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.6	1.3	1
1,4-Dioxane	ND		ug/kg	300	130	1
p-Diethylbenzene	ND		ug/kg	7.6	0.67	1
p-Ethyltoluene	ND		ug/kg	7.6	1.4	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	7.6	0.72	1
Ethyl ether	ND		ug/kg	7.6	1.3	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	19	5.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	120		70-130
4-Bromofluorobenzene	**132**	Q	70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-04 R
Client ID: 1-B1 (24.5-25)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 09:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/26/21 16:32
Analyst: KJD
Percent Solids: 43%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	20	9.0	1
1,1-Dichloroethane	ND		ug/kg	4.0	0.57	1
Chloroform	ND		ug/kg	5.9	0.55	1
Carbon tetrachloride	ND		ug/kg	4.0	0.91	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.49	1
Dibromochloromethane	ND		ug/kg	4.0	0.55	1
1,1,2-Trichloroethane	ND		ug/kg	4.0	1.0	1
Tetrachloroethene	ND		ug/kg	2.0	0.78	1
Chlorobenzene	ND		ug/kg	2.0	0.50	1
Trichlorofluoromethane	ND		ug/kg	16	2.7	1
1,2-Dichloroethane	ND		ug/kg	4.0	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	2.0	0.66	1
Bromodichloromethane	ND		ug/kg	2.0	0.43	1
trans-1,3-Dichloropropene	ND		ug/kg	4.0	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	2.0	0.62	1
1,3-Dichloropropene, Total	ND		ug/kg	2.0	0.62	1
1,1-Dichloropropene	ND		ug/kg	2.0	0.63	1
Bromoform	ND		ug/kg	16	0.97	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.0	0.66	1
Benzene	ND		ug/kg	2.0	0.66	1
Toluene	ND		ug/kg	4.0	2.1	1
Ethylbenzene	0.84	J	ug/kg	4.0	0.56	1
Chloromethane	ND		ug/kg	16	3.7	1
Bromomethane	ND		ug/kg	7.9	2.3	1
Vinyl chloride	ND		ug/kg	4.0	1.3	1
Chloroethane	ND		ug/kg	7.9	1.8	1
1,1-Dichloroethene	ND		ug/kg	4.0	0.94	1
trans-1,2-Dichloroethene	ND		ug/kg	5.9	0.54	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-04 R
Client ID: 1-B1 (24.5-25)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 09:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	2.0	0.54	1
1,2-Dichlorobenzene	ND		ug/kg	7.9	0.57	1
1,3-Dichlorobenzene	ND		ug/kg	7.9	0.58	1
1,4-Dichlorobenzene	ND		ug/kg	7.9	0.68	1
Methyl tert butyl ether	ND		ug/kg	7.9	0.79	1
p/m-Xylene	ND		ug/kg	7.9	2.2	1
o-Xylene	ND		ug/kg	4.0	1.2	1
Xylenes, Total	ND		ug/kg	4.0	1.2	1
cis-1,2-Dichloroethene	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethene, Total	ND		ug/kg	4.0	0.54	1
Dibromomethane	ND		ug/kg	7.9	0.94	1
Styrene	ND		ug/kg	4.0	0.78	1
Dichlorodifluoromethane	ND		ug/kg	40	3.6	1
Acetone	300		ug/kg	40	19.	1
Carbon disulfide	ND		ug/kg	40	18.	1
2-Butanone	68		ug/kg	40	8.8	1
Vinyl acetate	ND		ug/kg	40	8.5	1
4-Methyl-2-pentanone	ND		ug/kg	40	5.1	1
1,2,3-Trichloropropane	ND		ug/kg	7.9	0.50	1
2-Hexanone	ND		ug/kg	40	4.7	1
Bromochloromethane	ND		ug/kg	7.9	0.81	1
2,2-Dichloropropane	ND		ug/kg	7.9	0.80	1
1,2-Dibromoethane	ND		ug/kg	4.0	1.1	1
1,3-Dichloropropane	ND		ug/kg	7.9	0.66	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.0	0.52	1
Bromobenzene	ND		ug/kg	7.9	0.57	1
n-Butylbenzene	ND		ug/kg	4.0	0.66	1
sec-Butylbenzene	ND		ug/kg	4.0	0.58	1
tert-Butylbenzene	ND		ug/kg	7.9	0.47	1
o-Chlorotoluene	ND		ug/kg	7.9	0.76	1
p-Chlorotoluene	ND		ug/kg	7.9	0.43	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	12	3.9	1
Hexachlorobutadiene	ND		ug/kg	16	0.67	1
Isopropylbenzene	ND		ug/kg	4.0	0.43	1
p-Isopropyltoluene	ND		ug/kg	4.0	0.43	1
Naphthalene	ND		ug/kg	16	2.6	1
Acrylonitrile	ND		ug/kg	16	4.5	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-04 R Date Collected: 05/20/21 09:15

Client ID: 1-B1 (24.5-25) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	4.0	0.68	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.9	1.3	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.9	1.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.9	0.76	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.9	1.3	1
1,4-Dioxane	ND		ug/kg	320	140	1
p-Diethylbenzene	ND		ug/kg	7.9	0.70	1
p-Ethyltoluene	ND		ug/kg	7.9	1.5	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	7.9	0.76	1
Ethyl ether	ND		ug/kg	7.9	1.3	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	20	5.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	123		70-130
Dibromofluoromethane	104		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05 Date Collected: 05/20/21 10:30
Client ID: 4-B1 (6.5-7) Date Received: 05/21/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/25/21 21:21
Analyst: JC
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05 Date Collected: 05/20/21 10:30

Client ID: 4-B1 (6.5-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	26		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	5.0	J	ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	4.2		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05 Date Collected: 05/20/21 10:30

Client ID: 4-B1 (6.5-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-06 Date Collected: 05/20/21 11:00

Client ID: 4-B1 (24-24.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 05/25/21 22:01

Analyst: JC

Percent Solids: 50%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	16	7.5	1
1,1-Dichloroethane	ND		ug/kg	3.3	0.48	1
Chloroform	ND		ug/kg	4.9	0.46	1
Carbon tetrachloride	ND		ug/kg	3.3	0.76	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.41	1
Dibromochloromethane	ND		ug/kg	3.3	0.46	1
1,1,2-Trichloroethane	ND		ug/kg	3.3	0.88	1
Tetrachloroethene	ND		ug/kg	1.6	0.64	1
Chlorobenzene	ND		ug/kg	1.6	0.42	1
Trichlorofluoromethane	ND		ug/kg	13	2.3	1
1,2-Dichloroethane	ND		ug/kg	3.3	0.85	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	0.55	1
Bromodichloromethane	ND		ug/kg	1.6	0.36	1
trans-1,3-Dichloropropene	ND		ug/kg	3.3	0.90	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	0.52	1
1,3-Dichloropropene, Total	ND		ug/kg	1.6	0.52	1
1,1-Dichloropropene	ND		ug/kg	1.6	0.52	1
Bromoform	ND		ug/kg	13	0.81	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	0.55	1
Benzene	2.0		ug/kg	1.6	0.55	1
Toluene	ND		ug/kg	3.3	1.8	1
Ethylbenzene	ND		ug/kg	3.3	0.46	1
Chloromethane	ND		ug/kg	13	3.1	1
Bromomethane	ND		ug/kg	6.6	1.9	1
Vinyl chloride	ND		ug/kg	3.3	1.1	1
Chloroethane	ND		ug/kg	6.6	1.5	1
1,1-Dichloroethene	ND		ug/kg	3.3	0.78	1
trans-1,2-Dichloroethene	ND		ug/kg	4.9	0.45	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-06 Date Collected: 05/20/21 11:00

Client ID: 4-B1 (24-24.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.6	0.45	1
1,2-Dichlorobenzene	ND		ug/kg	6.6	0.47	1
1,3-Dichlorobenzene	ND		ug/kg	6.6	0.49	1
1,4-Dichlorobenzene	ND		ug/kg	6.6	0.56	1
Methyl tert butyl ether	ND		ug/kg	6.6	0.66	1
p/m-Xylene	ND		ug/kg	6.6	1.8	1
o-Xylene	ND		ug/kg	3.3	0.96	1
Xylenes, Total	ND		ug/kg	3.3	0.96	1
cis-1,2-Dichloroethene	ND		ug/kg	3.3	0.58	1
1,2-Dichloroethene, Total	ND		ug/kg	3.3	0.45	1
Dibromomethane	ND		ug/kg	6.6	0.78	1
Styrene	ND		ug/kg	3.3	0.64	1
Dichlorodifluoromethane	ND		ug/kg	33	3.0	1
Acetone	120		ug/kg	33	16.	1
Carbon disulfide	ND		ug/kg	33	15.	1
2-Butanone	26	J	ug/kg	33	7.3	1
Vinyl acetate	ND		ug/kg	33	7.1	1
4-Methyl-2-pentanone	ND		ug/kg	33	4.2	1
1,2,3-Trichloropropane	ND		ug/kg	6.6	0.42	1
2-Hexanone	ND		ug/kg	33	3.9	1
Bromochloromethane	ND		ug/kg	6.6	0.68	1
2,2-Dichloropropane	ND		ug/kg	6.6	0.66	1
1,2-Dibromoethane	ND		ug/kg	3.3	0.92	1
1,3-Dichloropropane	ND		ug/kg	6.6	0.55	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.6	0.43	1
Bromobenzene	ND		ug/kg	6.6	0.48	1
n-Butylbenzene	ND		ug/kg	3.3	0.55	1
sec-Butylbenzene	ND		ug/kg	3.3	0.48	1
tert-Butylbenzene	ND		ug/kg	6.6	0.39	1
o-Chlorotoluene	ND		ug/kg	6.6	0.63	1
p-Chlorotoluene	ND		ug/kg	6.6	0.36	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.9	3.3	1
Hexachlorobutadiene	ND		ug/kg	13	0.56	1
Isopropylbenzene	ND		ug/kg	3.3	0.36	1
p-Isopropyltoluene	ND		ug/kg	3.3	0.36	1
Naphthalene	ND		ug/kg	13	2.1	1
Acrylonitrile	ND		ug/kg	13	3.8	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-06 Date Collected: 05/20/21 11:00

Client ID: 4-B1 (24-24.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	3.3	0.56	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.6	1.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.6	0.90	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.6	0.64	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.6	1.1	1
1,4-Dioxane	ND		ug/kg	260	120	1
p-Diethylbenzene	ND		ug/kg	6.6	0.58	1
p-Ethyltoluene	ND		ug/kg	6.6	1.3	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.6	0.63	1
Ethyl ether	ND		ug/kg	6.6	1.1	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	16	4.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	128		70-130
4-Bromofluorobenzene	**132**	Q	70-130
Dibromofluoromethane	107		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-06 R
Client ID: 4-B1 (24-24.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 11:00
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/26/21 17:12
Analyst: KJD
Percent Solids: 50%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	16	7.5	1
1,1-Dichloroethane	ND		ug/kg	3.3	0.48	1
Chloroform	ND		ug/kg	4.9	0.46	1
Carbon tetrachloride	ND		ug/kg	3.3	0.76	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.41	1
Dibromochloromethane	ND		ug/kg	3.3	0.46	1
1,1,2-Trichloroethane	ND		ug/kg	3.3	0.88	1
Tetrachloroethene	ND		ug/kg	1.6	0.64	1
Chlorobenzene	ND		ug/kg	1.6	0.42	1
Trichlorofluoromethane	ND		ug/kg	13	2.3	1
1,2-Dichloroethane	ND		ug/kg	3.3	0.84	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	0.55	1
Bromodichloromethane	ND		ug/kg	1.6	0.36	1
trans-1,3-Dichloropropene	ND		ug/kg	3.3	0.90	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	0.52	1
1,3-Dichloropropene, Total	ND		ug/kg	1.6	0.52	1
1,1-Dichloropropene	ND		ug/kg	1.6	0.52	1
Bromoform	ND		ug/kg	13	0.81	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	0.54	1
Benzene	2.3		ug/kg	1.6	0.54	1
Toluene	ND		ug/kg	3.3	1.8	1
Ethylbenzene	ND		ug/kg	3.3	0.46	1
Chloromethane	ND		ug/kg	13	3.1	1
Bromomethane	ND		ug/kg	6.6	1.9	1
Vinyl chloride	ND		ug/kg	3.3	1.1	1
Chloroethane	ND		ug/kg	6.6	1.5	1
1,1-Dichloroethene	ND		ug/kg	3.3	0.78	1
trans-1,2-Dichloroethene	ND		ug/kg	4.9	0.45	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-06 R
Client ID: 4-B1 (24-24.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 11:00
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.6	0.45	1
1,2-Dichlorobenzene	ND		ug/kg	6.6	0.47	1
1,3-Dichlorobenzene	ND		ug/kg	6.6	0.48	1
1,4-Dichlorobenzene	ND		ug/kg	6.6	0.56	1
Methyl tert butyl ether	ND		ug/kg	6.6	0.66	1
p/m-Xylene	ND		ug/kg	6.6	1.8	1
o-Xylene	ND		ug/kg	3.3	0.96	1
Xylenes, Total	ND		ug/kg	3.3	0.96	1
cis-1,2-Dichloroethene	ND		ug/kg	3.3	0.57	1
1,2-Dichloroethene, Total	ND		ug/kg	3.3	0.45	1
Dibromomethane	ND		ug/kg	6.6	0.78	1
Styrene	ND		ug/kg	3.3	0.64	1
Dichlorodifluoromethane	ND		ug/kg	33	3.0	1
Acetone	220		ug/kg	33	16.	1
Carbon disulfide	ND		ug/kg	33	15.	1
2-Butanone	50		ug/kg	33	7.3	1
Vinyl acetate	ND		ug/kg	33	7.0	1
4-Methyl-2-pentanone	ND		ug/kg	33	4.2	1
1,2,3-Trichloropropane	ND		ug/kg	6.6	0.42	1
2-Hexanone	ND		ug/kg	33	3.9	1
Bromochloromethane	ND		ug/kg	6.6	0.67	1
2,2-Dichloropropane	ND		ug/kg	6.6	0.66	1
1,2-Dibromoethane	ND		ug/kg	3.3	0.92	1
1,3-Dichloropropane	ND		ug/kg	6.6	0.55	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.6	0.43	1
Bromobenzene	ND		ug/kg	6.6	0.48	1
n-Butylbenzene	ND		ug/kg	3.3	0.55	1
sec-Butylbenzene	ND		ug/kg	3.3	0.48	1
tert-Butylbenzene	ND		ug/kg	6.6	0.39	1
o-Chlorotoluene	ND		ug/kg	6.6	0.63	1
p-Chlorotoluene	ND		ug/kg	6.6	0.35	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.8	3.3	1
Hexachlorobutadiene	ND		ug/kg	13	0.55	1
Isopropylbenzene	ND		ug/kg	3.3	0.36	1
p-Isopropyltoluene	ND		ug/kg	3.3	0.36	1
Naphthalene	22		ug/kg	13	2.1	1
Acrylonitrile	ND		ug/kg	13	3.8	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-06 R Date Collected: 05/20/21 11:00

Client ID: 4-B1 (24-24.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	3.3	0.56	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.6	1.0	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.6	0.89	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.6	0.63	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.6	1.1	1
1,4-Dioxane	ND		ug/kg	260	120	1
p-Diethylbenzene	ND		ug/kg	6.6	0.58	1
p-Ethyltoluene	ND		ug/kg	6.6	1.3	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.6	0.63	1
Ethyl ether	ND		ug/kg	6.6	1.1	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	16	4.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	130		70-130
4-Bromofluorobenzene	**139**	Q	70-130
Dibromofluoromethane	108		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07 Date Collected: 05/20/21 12:15
Client ID: 10-B2 (8.5-9) Date Received: 05/21/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/25/21 22:41
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.26	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	0.16	J	ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07 Date Collected: 05/20/21 12:15

Client ID: 10-B2 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.91	1
Acetone	32		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.5	1
2-Butanone	6.3	J	ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.14	1
tert-Butylbenzene	0.39	J	ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	0.29	J	ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07 Date Collected: 05/20/21 12:15

Client ID: 10-B2 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	80	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	0.29	J	ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	101		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-08
Client ID: 10-B2 (34.5-35)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 13:00
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/25/21 23:20
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.81	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.3	0.68	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-08 Date Collected: 05/20/21 13:00

Client ID: 10-B2 (34.5-35) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	0.68	J	ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.65	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	7.3	J	ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.76	1
Acrylonitrile	ND		ug/kg	4.7	1.3	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-08 Date Collected: 05/20/21 13:00

Client ID: 10-B2 (34.5-35) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	93	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.21	1
p-Ethyltoluene	ND		ug/kg	2.3	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09 Date Collected: 05/20/21 07:30

Client ID: 9-B1 (6-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 05/26/21 00:00

Analyst: JC

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.4	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.97	0.53	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.97	0.32	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09 Date Collected: 05/20/21 07:30

Client ID: 9-B1 (6-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.89	1
Acetone	ND		ug/kg	9.7	4.7	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.2	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.97	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.11	1
Naphthalene	1.0	J	ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09 Date Collected: 05/20/21 07:30

Client ID: 9-B1 (6-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.97	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	0.43	J	ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	78	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	101		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-10
Client ID: 9-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:45
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/26/21 00:40
Analyst: JC
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.9	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.16	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.86	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.20	1
Benzene	ND		ug/kg	0.62	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-10 Date Collected: 05/20/21 07:45

Client ID: 9-B1 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	150		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	38		ug/kg	12	2.8	1
Vinyl acetate	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.35	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	5.8		ug/kg	1.2	0.14	1
Naphthalene	14		ug/kg	5.0	0.81	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-10 Date Collected: 05/20/21 07:45

Client ID: 9-B1 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	0.24	J	ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.41	1
1,4-Dioxane	ND		ug/kg	99	44.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/26/21 08:40
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04,06 Batch: WG1503995-10					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/26/21 08:40
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04,06 Batch: WG1503995-10					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/26/21 08:40
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04,06 Batch: WG1503995-10					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/25/21 18:44
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-10 Batch: WG1503995-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/25/21 18:44
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-10 Batch: WG1503995-5					
1,2-Dichlorobenzene	0.15	J	ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	0.31	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/25/21 18:44
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-10 Batch: WG1503995-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	0.23	J	ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	0.65	J	ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.50	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	0.39	J	ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1503995-3 WG1503995-4								
Methylene chloride	106		106		70-130	0		30
1,1-Dichloroethane	112		112		70-130	0		30
Chloroform	104		105		70-130	1		30
Carbon tetrachloride	114		118		70-130	3		30
1,2-Dichloropropane	111		111		70-130	0		30
Dibromochloromethane	121		122		70-130	1		30
1,1,2-Trichloroethane	113		112		70-130	1		30
Tetrachloroethene	110		110		70-130	0		30
Chlorobenzene	108		107		70-130	1		30
Trichlorofluoromethane	114		115		70-139	1		30
1,2-Dichloroethane	113		112		70-130	1		30
1,1,1-Trichloroethane	114		117		70-130	3		30
Bromodichloromethane	113		116		70-130	3		30
trans-1,3-Dichloropropene	117		118		70-130	1		30
cis-1,3-Dichloropropene	116		117		70-130	1		30
1,1-Dichloropropene	116		115		70-130	1		30
Bromoform	121		124		70-130	2		30
1,1,2,2-Tetrachloroethane	117		114		70-130	3		30
Benzene	110		109		70-130	1		30
Toluene	104		104		70-130	0		30
Ethylbenzene	112		111		70-130	1		30
Chloromethane	103		101		52-130	2		30
Bromomethane	98		112		57-147	13		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1503995-3 WG1503995-4								
Vinyl chloride	114		115		67-130	1		30
Chloroethane	112		110		50-151	2		30
1,1-Dichloroethene	111		110		65-135	1		30
trans-1,2-Dichloroethene	109		109		70-130	0		30
Trichloroethene	109		110		70-130	1		30
1,2-Dichlorobenzene	111		112		70-130	1		30
1,3-Dichlorobenzene	111		112		70-130	1		30
1,4-Dichlorobenzene	111		112		70-130	1		30
Methyl tert butyl ether	113		113		66-130	0		30
p/m-Xylene	110		110		70-130	0		30
o-Xylene	111		111		70-130	0		30
cis-1,2-Dichloroethene	108		108		70-130	0		30
Dibromomethane	112		112		70-130	0		30
Styrene	113		113		70-130	0		30
Dichlorodifluoromethane	107		107		30-146	0		30
Acetone	121		111		54-140	9		30
Carbon disulfide	108		110		59-130	2		30
2-Butanone	121		118		70-130	3		30
Vinyl acetate	120		123		70-130	2		30
4-Methyl-2-pentanone	123		117		70-130	5		30
1,2,3-Trichloropropane	113		111		68-130	2		30
2-Hexanone	126		122		70-130	3		30
Bromochloromethane	112		111		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1503995-3 WG1503995-4								
2,2-Dichloropropane	111		114		70-130	3		30
1,2-Dibromoethane	115		114		70-130	1		30
1,3-Dichloropropane	114		112		69-130	2		30
1,1,1,2-Tetrachloroethane	117		119		70-130	2		30
Bromobenzene	110		110		70-130	0		30
n-Butylbenzene	114		114		70-130	0		30
sec-Butylbenzene	113		113		70-130	0		30
tert-Butylbenzene	114		114		70-130	0		30
o-Chlorotoluene	109		109		70-130	0		30
p-Chlorotoluene	110		110		70-130	0		30
1,2-Dibromo-3-chloropropane	121		124		68-130	2		30
Hexachlorobutadiene	116		115		67-130	1		30
Isopropylbenzene	113		113		70-130	0		30
p-Isopropyltoluene	115		116		70-130	1		30
Naphthalene	119		116		70-130	3		30
Acrylonitrile	120		117		70-130	3		30
n-Propylbenzene	114		113		70-130	1		30
1,2,3-Trichlorobenzene	115		112		70-130	3		30
1,2,4-Trichlorobenzene	117		113		70-130	3		30
1,3,5-Trimethylbenzene	113		113		70-130	0		30
1,2,4-Trimethylbenzene	113		113		70-130	0		30
1,4-Dioxane	91		81		65-136	12		30
p-Diethylbenzene	115		116		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1503995-3 WG1503995-4								
p-Ethyltoluene	112		112		70-130	0		30
1,2,4,5-Tetramethylbenzene	118		118		70-130	0		30
Ethyl ether	112		111		67-130	1		30
trans-1,4-Dichloro-2-butene	120		119		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04,06 Batch: WG1503995-8 WG1503995-9								
Methylene chloride	95		94		70-130	1		30
1,1-Dichloroethane	91		92		70-130	1		30
Chloroform	87		88		70-130	1		30
Carbon tetrachloride	91		97		70-130	6		30
1,2-Dichloropropane	93		94		70-130	1		30
Dibromochloromethane	103		108		70-130	5		30
1,1,2-Trichloroethane	96		98		70-130	2		30
Tetrachloroethene	90		89		70-130	1		30
Chlorobenzene	90		89		70-130	1		30
Trichlorofluoromethane	92		93		70-139	1		30
1,2-Dichloroethane	94		99		70-130	5		30
1,1,1-Trichloroethane	92		94		70-130	2		30
Bromodichloromethane	96		99		70-130	3		30
trans-1,3-Dichloropropene	100		103		70-130	3		30
cis-1,3-Dichloropropene	98		101		70-130	3		30
1,1-Dichloropropene	93		94		70-130	1		30
Bromoform	101		110		70-130	9		30
1,1,2,2-Tetrachloroethane	100		106		70-130	6		30
Benzene	91		91		70-130	0		30
Toluene	87		86		70-130	1		30
Ethylbenzene	92		91		70-130	1		30
Chloromethane	87		85		52-130	2		30
Bromomethane	85		86		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04,06 Batch: WG1503995-8 WG1503995-9								
Vinyl chloride	90		88		67-130	2		30
Chloroethane	93		91		50-151	2		30
1,1-Dichloroethene	90		90		65-135	0		30
trans-1,2-Dichloroethene	91		90		70-130	1		30
Trichloroethene	90		91		70-130	1		30
1,2-Dichlorobenzene	94		94		70-130	0		30
1,3-Dichlorobenzene	94		93		70-130	1		30
1,4-Dichlorobenzene	94		93		70-130	1		30
Methyl tert butyl ether	99		104		66-130	5		30
p/m-Xylene	91		90		70-130	1		30
o-Xylene	93		92		70-130	1		30
cis-1,2-Dichloroethene	90		90		70-130	0		30
Dibromomethane	95		99		70-130	4		30
Styrene	94		93		70-130	1		30
Dichlorodifluoromethane	92		90		30-146	2		30
Acetone	116		127		54-140	9		30
Carbon disulfide	88		89		59-130	1		30
2-Butanone	106		117		70-130	10		30
Vinyl acetate	105		113		70-130	7		30
4-Methyl-2-pentanone	107		114		70-130	6		30
1,2,3-Trichloropropane	98		103		68-130	5		30
2-Hexanone	108		118		70-130	9		30
Bromochloromethane	93		95		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04,06 Batch: WG1503995-8 WG1503995-9								
2,2-Dichloropropane	92		95		70-130	3		30
1,2-Dibromoethane	100		102		70-130	2		30
1,3-Dichloropropane	97		99		69-130	2		30
1,1,1,2-Tetrachloroethane	99		101		70-130	2		30
Bromobenzene	92		93		70-130	1		30
n-Butylbenzene	95		93		70-130	2		30
sec-Butylbenzene	94		94		70-130	0		30
tert-Butylbenzene	94		93		70-130	1		30
o-Chlorotoluene	92		91		70-130	1		30
p-Chlorotoluene	92		92		70-130	0		30
1,2-Dibromo-3-chloropropane	107		119		68-130	11		30
Hexachlorobutadiene	95		95		67-130	0		30
Isopropylbenzene	93		93		70-130	0		30
p-Isopropyltoluene	96		94		70-130	2		30
Naphthalene	105		110		70-130	5		30
Acrylonitrile	103		112		70-130	8		30
n-Propylbenzene	94		93		70-130	1		30
1,2,3-Trichlorobenzene	100		101		70-130	1		30
1,2,4-Trichlorobenzene	100		100		70-130	0		30
1,3,5-Trimethylbenzene	94		93		70-130	1		30
1,2,4-Trimethylbenzene	95		93		70-130	2		30
1,4-Dioxane	116		122		65-136	5		30
p-Diethylbenzene	96		94		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04,06 Batch: WG1503995-8 WG1503995-9								
p-Ethyltoluene	94		93		70-130	1		30
1,2,4,5-Tetramethylbenzene	101		99		70-130	2		30
Ethyl ether	97		100		67-130	3		30
trans-1,4-Dichloro-2-butene	101		110		70-130	9		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		105		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	99		101		70-130
Dibromofluoromethane	101		102		70-130

SEMIVOLATILES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-01
Client ID: 2-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:00
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/03/21 05:26
Analyst: ALS
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 08:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	160		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	1200		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	120	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-01 Date Collected: 05/20/21 07:00

Client ID: 2-B1 (7.5-8) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	1000		ug/kg	120	22.	1
Benzo(a)pyrene	1100		ug/kg	160	48.	1
Benzo(b)fluoranthene	960		ug/kg	120	33.	1
Benzo(k)fluoranthene	360		ug/kg	120	32.	1
Chrysene	1000		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	260		ug/kg	120	39.	1
Benzo(ghi)perylene	670		ug/kg	160	23.	1
Fluorene	99	J	ug/kg	200	19.	1
Phenanthrene	920		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	170		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	580		ug/kg	160	28.	1
Pyrene	1600		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	40	J	ug/kg	200	19.	1
2-Methylnaphthalene	31	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-01 Date Collected: 05/20/21 07:00

Client ID: 2-B1 (7.5-8) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	77	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	74		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03
Client ID: 1-B1 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 08:40
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/03/21 13:08
Analyst: SZ
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 00:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	220		ug/kg	170	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	4000		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	780		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	76.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03 Date Collected: 05/20/21 08:40

Client ID: 1-B1 (7.5-8.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	2200		ug/kg	130	25.	1
Benzo(a)pyrene	2500		ug/kg	170	53.	1
Benzo(b)fluoranthene	3200		ug/kg	130	37.	1
Benzo(k)fluoranthene	1100		ug/kg	130	35.	1
Chrysene	2600		ug/kg	130	23.	1
Acenaphthylene	130	J	ug/kg	170	34.	1
Anthracene	520		ug/kg	130	43.	1
Benzo(ghi)perylene	1600		ug/kg	170	26.	1
Fluorene	340		ug/kg	220	21.	1
Phenanthrene	2600		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	420		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	1700		ug/kg	170	30.	1
Pyrene	3700		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	51.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	120	J	ug/kg	220	21.	1
2-Methylnaphthalene	410		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03 Date Collected: 05/20/21 08:40

Client ID: 1-B1 (7.5-8.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	710	220	1
Benzyl Alcohol	ND		ug/kg	220	67.	1
Carbazole	210	J	ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	95		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	103		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03
Client ID: 1-B1 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 08:40
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/27/21 22:00
Analyst: HT
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.631	0.029	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.631	0.058	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.316	0.049	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.631	0.066	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.316	0.057	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.316	0.076	1
Perfluorooctanoic Acid (PFOA)	0.071	J	ng/g	0.316	0.053	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.631	0.227	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.631	0.172	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.316	0.095	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.316	0.164	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.316	0.085	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.631	0.362	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.631	0.254	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.631	0.059	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.631	0.193	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.631	0.124	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.631	0.107	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.631	0.088	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.631	0.258	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.631	0.068	1
PFOA/PFOS, Total	0.071	J	ng/g	0.316	0.053	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03 Date Collected: 05/20/21 08:40

Client ID: 1-B1 (7.5-8.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	112		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	125		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	120		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	111		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	111		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	119		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	111		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	133		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	108		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	118		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	108		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	124		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	69		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	115		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	88		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	70		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	90		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05
Client ID: 4-B1 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 10:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/03/21 13:29
Analyst: SZ
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 00:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	150	J	ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	1700		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	160	J	ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05 Date Collected: 05/20/21 10:30

Client ID: 4-B1 (6.5-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	780		ug/kg	120	24.	1
Benzo(a)pyrene	790		ug/kg	170	51.	1
Benzo(b)fluoranthene	950		ug/kg	120	35.	1
Benzo(k)fluoranthene	270		ug/kg	120	34.	1
Chrysene	780		ug/kg	120	22.	1
Acenaphthylene	87	J	ug/kg	170	32.	1
Anthracene	340		ug/kg	120	41.	1
Benzo(ghi)perylene	480		ug/kg	170	25.	1
Fluorene	170	J	ug/kg	210	20.	1
Phenanthrene	1400		ug/kg	120	26.	1
Dibenzo(a,h)anthracene	110	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	500		ug/kg	170	29.	1
Pyrene	1500		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	100	J	ug/kg	210	20.	1
2-Methylnaphthalene	59	J	ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	79.	1
4-Nitrophenol	ND		ug/kg	290	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	86	J	ug/kg	300	33.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05 Date Collected: 05/20/21 10:30

Client ID: 4-B1 (6.5-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	120	J	ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	64		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05
Client ID: 4-B1 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 10:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/27/21 22:16
Analyst: HT
Percent Solids: 79%

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.574	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.574	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.287	0.045	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.574	0.060	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.287	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.287	0.069	1
Perfluorooctanoic Acid (PFOA)	0.120	J	ng/g	0.287	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.574	0.206	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.574	0.157	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.287	0.086	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.287	0.149	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.287	0.077	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.574	0.329	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.574	0.231	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.574	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.574	0.176	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.574	0.097	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.574	0.080	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.574	0.235	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.574	0.062	1
PFOA/PFOS, Total	0.120	J	ng/g	0.287	0.048	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05 Date Collected: 05/20/21 10:30

Client ID: 4-B1 (6.5-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	108		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	119		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	121		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	106		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	107		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	111		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	108		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	126		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	102		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	116		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	121		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**11**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**14**	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	83		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05
Client ID: 4-B1 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 10:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/30/21 12:52
Analyst: SG
Percent Solids: 79%

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.574	0.112	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	55		10-117

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07
Client ID: 10-B2 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 12:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/03/21 13:51
Analyst: SZ
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 00:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	810		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	63	J	ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	5900		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	300		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07 Date Collected: 05/20/21 12:15

Client ID: 10-B2 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	3400		ug/kg	120	22.	1
Benzo(a)pyrene	2900		ug/kg	150	47.	1
Benzo(b)fluoranthene	3600		ug/kg	120	32.	1
Benzo(k)fluoranthene	950		ug/kg	120	31.	1
Chrysene	3200		ug/kg	120	20.	1
Acenaphthylene	350		ug/kg	150	30.	1
Anthracene	2200		ug/kg	120	38.	1
Benzo(ghi)perylene	1700		ug/kg	150	23.	1
Fluorene	1100		ug/kg	190	19.	1
Phenanthrene	6100		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	470		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	1800		ug/kg	150	27.	1
Pyrene	5600		ug/kg	120	19.	1
Biphenyl	76	J	ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	580		ug/kg	190	18.	1
2-Methylnaphthalene	210	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	72.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	920	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	64	J	ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	88	J	ug/kg	280	30.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07 Date Collected: 05/20/21 12:15

Client ID: 10-B2 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	560		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	76		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07
Client ID: 10-B2 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 12:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/27/21 22:33
Analyst: HT
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.545	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.545	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.272	0.043	1
Perfluorohexanoic Acid (PFHxA)	0.070	J	ng/g	0.545	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.272	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.272	0.066	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.272	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.545	0.196	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.545	0.149	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.272	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.272	0.142	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.272	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.545	0.313	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.545	0.219	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.545	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.545	0.167	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.545	0.107	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.545	0.092	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.545	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.545	0.223	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.545	0.059	1
PFOA/PFOS, Total	ND		ng/g	0.272	0.046	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07 Date Collected: 05/20/21 12:15

Client ID: 10-B2 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	116		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	129		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	121		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	113		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	113		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	124		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	117		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	130		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	111		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	120		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	112		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	129		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	86		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	119		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	97		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	97		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	110		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09
Client ID: 9-B1 (6-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/04/21 02:17
Analyst: SZ
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 00:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	44	J	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	26	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09 Date Collected: 05/20/21 07:30

Client ID: 9-B1 (6-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	120		ug/kg	120	22.	1
Benzo(a)pyrene	150	J	ug/kg	160	48.	1
Benzo(b)fluoranthene	140		ug/kg	120	33.	1
Benzo(k)fluoranthene	44	J	ug/kg	120	31.	1
Chrysene	110	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	96	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	30	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	160	27.	1
Pyrene	76	J	ug/kg	120	19.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09 Date Collected: 05/20/21 07:30

Client ID: 9-B1 (6-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	48		30-120
2,4,6-Tribromophenol	39		10-136
4-Terphenyl-d14	33		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09
Client ID: 9-B1 (6-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/27/21 22:49
Analyst: HT
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.042	J	ng/g	0.544	0.025	1
Perfluoropentanoic Acid (PFPeA)	0.088	J	ng/g	0.544	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	0.170	J	ng/g	0.272	0.042	1
Perfluorohexanoic Acid (PFHxA)	0.212	J	ng/g	0.544	0.057	1
Perfluoroheptanoic Acid (PFHpA)	0.161	J	ng/g	0.272	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	1.00		ng/g	0.272	0.066	1
Perfluorooctanoic Acid (PFOA)	1.83		ng/g	0.272	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.544	0.195	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.544	0.148	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.272	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	1.53		ng/g	0.272	0.141	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.272	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.544	0.312	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.544	0.219	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.544	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.544	0.166	1
Perfluorooctanesulfonamide (FOSA)	0.161	JF	ng/g	0.544	0.106	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	25.4		ng/g	0.544	0.092	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.544	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.544	0.222	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.544	0.059	1
PFOA/PFOS, Total	3.36		ng/g	0.272	0.046	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09 Date Collected: 05/20/21 07:30

Client ID: 9-B1 (6-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	119		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	104		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	108		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	139		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	107		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	125		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	82		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	83		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	104		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	111		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-10
Client ID: 9-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:45
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/03/21 05:04
Analyst: ALS
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 08:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	240		ug/kg	180	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	26.	1
Hexachlorobenzene	ND		ug/kg	140	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	31.	1
2-Chloronaphthalene	ND		ug/kg	230	22.	1
1,2-Dichlorobenzene	ND		ug/kg	230	41.	1
1,3-Dichlorobenzene	ND		ug/kg	230	39.	1
1,4-Dichlorobenzene	ND		ug/kg	230	40.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	60.	1
2,4-Dinitrotoluene	ND		ug/kg	230	45.	1
2,6-Dinitrotoluene	ND		ug/kg	230	39.	1
Fluoranthene	1700		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	35.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	39.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	23.	1
Hexachlorobutadiene	ND		ug/kg	230	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	650	200	1
Hexachloroethane	ND		ug/kg	180	37.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	370		ug/kg	230	28.	1
Nitrobenzene	ND		ug/kg	200	34.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	79.	1
Butyl benzyl phthalate	ND		ug/kg	230	57.	1
Di-n-butylphthalate	ND		ug/kg	230	43.	1
Di-n-octylphthalate	ND		ug/kg	230	77.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-10 Date Collected: 05/20/21 07:45

Client ID: 9-B1 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	230	21.	1
Dimethyl phthalate	ND		ug/kg	230	48.	1
Benzo(a)anthracene	800		ug/kg	140	26.	1
Benzo(a)pyrene	790		ug/kg	180	55.	1
Benzo(b)fluoranthene	900		ug/kg	140	38.	1
Benzo(k)fluoranthene	260		ug/kg	140	36.	1
Chrysene	780		ug/kg	140	24.	1
Acenaphthylene	39	J	ug/kg	180	35.	1
Anthracene	390		ug/kg	140	44.	1
Benzo(ghi)perylene	500		ug/kg	180	27.	1
Fluorene	230		ug/kg	230	22.	1
Phenanthrene	1400		ug/kg	140	28.	1
Dibenzo(a,h)anthracene	120	J	ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	520		ug/kg	180	32.	1
Pyrene	1600		ug/kg	140	22.	1
Biphenyl	ND		ug/kg	520	53.	1
4-Chloroaniline	ND		ug/kg	230	41.	1
2-Nitroaniline	ND		ug/kg	230	44.	1
3-Nitroaniline	ND		ug/kg	230	43.	1
4-Nitroaniline	ND		ug/kg	230	94.	1
Dibenzofuran	130	J	ug/kg	230	21.	1
2-Methylnaphthalene	97	J	ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	24.	1
Acetophenone	ND		ug/kg	230	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	43.	1
p-Chloro-m-cresol	ND		ug/kg	230	34.	1
2-Chlorophenol	ND		ug/kg	230	27.	1
2,4-Dichlorophenol	ND		ug/kg	200	36.	1
2,4-Dimethylphenol	ND		ug/kg	230	75.	1
2-Nitrophenol	ND		ug/kg	490	85.	1
4-Nitrophenol	ND		ug/kg	320	93.	1
2,4-Dinitrophenol	ND		ug/kg	1100	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	590	110	1
Pentachlorophenol	ND		ug/kg	180	50.	1
Phenol	110	J	ug/kg	230	34.	1
2-Methylphenol	ND		ug/kg	230	35.	1
3-Methylphenol/4-Methylphenol	1600		ug/kg	330	36.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-10 Date Collected: 05/20/21 07:45

Client ID: 9-B1 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	230	44.	1
Benzoic Acid	ND		ug/kg	740	230	1
Benzyl Alcohol	ND		ug/kg	230	70.	1
Carbazole	120	J	ug/kg	230	22.	1
1,4-Dioxane	ND		ug/kg	34	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	77		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/26/21 02:08
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 03,05,07,09 Batch: WG1502698-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/26/21 02:08
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 03,05,07,09 Batch: WG1502698-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	107		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	110		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	120		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	120		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	96		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	116		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	114		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	95		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	116		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	40		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	123		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	122		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	108		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/30/21 12:01
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 03,05,07,09 Batch: WG1502698-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	74		10-117

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/03/21 09:54
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 06/02/21 00:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,05,07,09 Batch: WG1506300-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/03/21 09:54
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 06/02/21 00:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,05,07,09 Batch: WG1506300-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/03/21 09:54
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 06/02/21 00:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,05,07,09 Batch: WG1506300-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	96		10-136
4-Terphenyl-d14	77		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/02/21 21:21
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 06/02/21 08:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,10 Batch: WG1506442-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/02/21 21:21
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 06/02/21 08:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,10 Batch: WG1506442-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/02/21 21:21
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 06/02/21 08:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,10 Batch: WG1506442-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	91		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 Batch: WG1502698-2								
Perfluorobutanoic Acid (PFBA)	97		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	104		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	91		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	103		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	99		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	96		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	99		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	118		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	106		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	124		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	109		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	101		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	112		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	121		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	106		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	102		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	96		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	93		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	101		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	131		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	105		-		69-133	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 Batch: WG1502698-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	105				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	107				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	121				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	101				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	110				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	99				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	114				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	120				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	102				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	126				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	27				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**144**	Q			34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	129				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	142				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 Batch: WG1502698-2								
Perfluorooctanesulfonamide (FOSA)	87		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	76				10-117

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1506300-2 WG1506300-3								
Acenaphthene	80		90		31-137	12		50
1,2,4-Trichlorobenzene	79		86		38-107	8		50
Hexachlorobenzene	78		88		40-140	12		50
Bis(2-chloroethyl)ether	79		85		40-140	7		50
2-Chloronaphthalene	85		96		40-140	12		50
1,2-Dichlorobenzene	71		77		40-140	8		50
1,3-Dichlorobenzene	68		74		40-140	8		50
1,4-Dichlorobenzene	70		75		28-104	7		50
3,3'-Dichlorobenzidine	70		80		40-140	13		50
2,4-Dinitrotoluene	77		88		40-132	13		50
2,6-Dinitrotoluene	92		105		40-140	13		50
Fluoranthene	81		94		40-140	15		50
4-Chlorophenyl phenyl ether	80		90		40-140	12		50
4-Bromophenyl phenyl ether	78		89		40-140	13		50
Bis(2-chloroisopropyl)ether	104		113		40-140	8		50
Bis(2-chloroethoxy)methane	82		89		40-117	8		50
Hexachlorobutadiene	85		94		40-140	10		50
Hexachlorocyclopentadiene	74		84		40-140	13		50
Hexachloroethane	83		92		40-140	10		50
Isophorone	86		94		40-140	9		50
Naphthalene	78		85		40-140	9		50
Nitrobenzene	89		96		40-140	8		50
NDPA/DPA	80		92		36-157	14		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1506300-2 WG1506300-3								
n-Nitrosodi-n-propylamine	91		98		32-121	7		50
Bis(2-ethylhexyl)phthalate	101		115		40-140	13		50
Butyl benzyl phthalate	90		104		40-140	14		50
Di-n-butylphthalate	94		110		40-140	16		50
Di-n-octylphthalate	97		111		40-140	13		50
Diethyl phthalate	86		97		40-140	12		50
Dimethyl phthalate	85		98		40-140	14		50
Benzo(a)anthracene	83		94		40-140	12		50
Benzo(a)pyrene	78		89		40-140	13		50
Benzo(b)fluoranthene	79		86		40-140	8		50
Benzo(k)fluoranthene	74		87		40-140	16		50
Chrysene	80		91		40-140	13		50
Acenaphthylene	79		89		40-140	12		50
Anthracene	83		97		40-140	16		50
Benzo(ghi)perylene	82		97		40-140	17		50
Fluorene	81		93		40-140	14		50
Phenanthrene	83		97		40-140	16		50
Dibenzo(a,h)anthracene	82		95		40-140	15		50
Indeno(1,2,3-cd)pyrene	81		96		40-140	17		50
Pyrene	79		94		35-142	17		50
Biphenyl	79		87		37-127	10		50
4-Chloroaniline	92		104		40-140	12		50
2-Nitroaniline	92		104		47-134	12		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1506300-2 WG1506300-3								
3-Nitroaniline	79		90		26-129	13		50
4-Nitroaniline	81		92		41-125	13		50
Dibenzofuran	79		90		40-140	13		50
2-Methylnaphthalene	80		88		40-140	10		50
1,2,4,5-Tetrachlorobenzene	83		91		40-117	9		50
Acetophenone	78		86		14-144	10		50
2,4,6-Trichlorophenol	94		106		30-130	12		50
p-Chloro-m-cresol	92		103		26-103	11		50
2-Chlorophenol	81		87		25-102	7		50
2,4-Dichlorophenol	91		100		30-130	9		50
2,4-Dimethylphenol	81		91		30-130	12		50
2-Nitrophenol	91		99		30-130	8		50
4-Nitrophenol	105		**120**	Q	11-114	13		50
2,4-Dinitrophenol	91		106		4-130	15		50
4,6-Dinitro-o-cresol	88		100		10-130	13		50
Pentachlorophenol	80		95		17-109	17		50
Phenol	81		87		26-90	7		50
2-Methylphenol	86		94		30-130.	9		50
3-Methylphenol/4-Methylphenol	95		105		30-130	10		50
2,4,5-Trichlorophenol	95		107		30-130	12		50
Benzoic Acid	57		77		10-110	30		50
Benzyl Alcohol	91		100		40-140	9		50
Carbazole	82		98		54-128	18		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1506300-2 WG1506300-3								
1,4-Dioxane	57		63		40-140	10		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	85		92		25-120
Phenol-d6	87		95		10-120
Nitrobenzene-d5	91		99		23-120
2-Fluorobiphenyl	79		87		30-120
2,4,6-Tribromophenol	94		107		10-136
4-Terphenyl-d14	71		83		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,10 Batch: WG1506442-2 WG1506442-3								
Acenaphthene	80		80		31-137	0		50
1,2,4-Trichlorobenzene	75		71		38-107	5		50
Hexachlorobenzene	80		83		40-140	4		50
Bis(2-chloroethyl)ether	73		70		40-140	4		50
2-Chloronaphthalene	81		82		40-140	1		50
1,2-Dichlorobenzene	70		68		40-140	3		50
1,3-Dichlorobenzene	69		66		40-140	4		50
1,4-Dichlorobenzene	69		67		28-104	3		50
3,3'-Dichlorobenzidine	62		63		40-140	2		50
2,4-Dinitrotoluene	84		86		40-132	2		50
2,6-Dinitrotoluene	90		91		40-140	1		50
Fluoranthene	87		88		40-140	1		50
4-Chlorophenyl phenyl ether	81		81		40-140	0		50
4-Bromophenyl phenyl ether	82		83		40-140	1		50
Bis(2-chloroisopropyl)ether	66		63		40-140	5		50
Bis(2-chloroethoxy)methane	77		74		40-117	4		50
Hexachlorobutadiene	73		73		40-140	0		50
Hexachlorocyclopentadiene	80		80		40-140	0		50
Hexachloroethane	71		68		40-140	4		50
Isophorone	78		76		40-140	3		50
Naphthalene	75		75		40-140	0		50
Nitrobenzene	82		80		40-140	2		50
NDPA/DPA	84		85		36-157	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,10 Batch: WG1506442-2 WG1506442-3								
n-Nitrosodi-n-propylamine	80		78		32-121	3		50
Bis(2-ethylhexyl)phthalate	94		94		40-140	0		50
Butyl benzyl phthalate	97		97		40-140	0		50
Di-n-butylphthalate	92		93		40-140	1		50
Di-n-octylphthalate	96		94		40-140	2		50
Diethyl phthalate	83		84		40-140	1		50
Dimethyl phthalate	90		91		40-140	1		50
Benzo(a)anthracene	80		83		40-140	4		50
Benzo(a)pyrene	87		90		40-140	3		50
Benzo(b)fluoranthene	89		84		40-140	6		50
Benzo(k)fluoranthene	83		95		40-140	13		50
Chrysene	83		84		40-140	1		50
Acenaphthylene	81		82		40-140	1		50
Anthracene	84		85		40-140	1		50
Benzo(ghi)perylene	82		85		40-140	4		50
Fluorene	82		81		40-140	1		50
Phenanthrene	81		82		40-140	1		50
Dibenzo(a,h)anthracene	88		90		40-140	2		50
Indeno(1,2,3-cd)pyrene	84		90		40-140	7		50
Pyrene	85		86		35-142	1		50
Biphenyl	78		81		37-127	4		50
4-Chloroaniline	59		54		40-140	9		50
2-Nitroaniline	87		89		47-134	2		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,10 Batch: WG1506442-2 WG1506442-3								
3-Nitroaniline	67		62		26-129	8		50
4-Nitroaniline	75		74		41-125	1		50
Dibenzofuran	79		81		40-140	3		50
2-Methylnaphthalene	80		80		40-140	0		50
1,2,4,5-Tetrachlorobenzene	78		76		40-117	3		50
Acetophenone	73		70		14-144	4		50
2,4,6-Trichlorophenol	85		85		30-130	0		50
p-Chloro-m-cresol	86		90		26-103	5		50
2-Chlorophenol	75		74		25-102	1		50
2,4-Dichlorophenol	87		84		30-130	4		50
2,4-Dimethylphenol	86		84		30-130	2		50
2-Nitrophenol	83		79		30-130	5		50
4-Nitrophenol	72		73		11-114	1		50
2,4-Dinitrophenol	64		78		4-130	20		50
4,6-Dinitro-o-cresol	84		89		10-130	6		50
Pentachlorophenol	72		78		17-109	8		50
Phenol	82		80		26-90	2		50
2-Methylphenol	81		79		30-130.	3		50
3-Methylphenol/4-Methylphenol	88		86		30-130	2		50
2,4,5-Trichlorophenol	89		91		30-130	2		50
Benzoic Acid	47		63		10-110	29		50
Benzyl Alcohol	81		76		40-140	6		50
Carbazole	82		82		54-128	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,10 Batch: WG1506442-2 WG1506442-3								
1,4-Dioxane	51		50		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	76		72		25-120
Phenol-d6	73		70		10-120
Nitrobenzene-d5	76		76		23-120
2-Fluorobiphenyl	83		82		30-120
2,4,6-Tribromophenol	79		80		10-136
4-Terphenyl-d14	93		92		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1502698-3 WG1502698-4 QC Sample: L2127150-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	5.22	4.99	96		5.01	96		71-135	0		30
Perfluoropentanoic Acid (PFPeA)	ND	5.22	5.41	104		5.31	102		69-132	2		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.64	4.13	89		4.06	88		72-128	2		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.89	5.61	115		5.45	112		62-145	3		30
Perfluorohexanoic Acid (PFHxA)	0.056J	5.22	5.21	99		5.14	98		70-132	1		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.91	4.34	88		4.39	90		73-123	1		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.22	5.18	99		5.07	97		71-131	2		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.77	4.48	94		4.38	92		67-130	2		30
Perfluorooctanoic Acid (PFOA)	ND	5.22	5.32	102		5.04	97		69-133	5		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.97	5.65	114		5.78	117		64-140	2		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.97	5.25	106		4.94	100		70-132	6		30
Perfluorononanoic Acid (PFNA)	ND	5.22	6.22	119		5.84	112		72-129	6		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.85	5.22	108		4.95	102		68-136	5		30
Perfluorodecanoic Acid (PFDA)	ND	5.22	5.40	103		5.59	107		69-133	3		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.01	5.61	112		5.27	105		65-137	6		30
Perfluorononanesulfonic Acid (PFNS)	ND	5.02	4.96	99		4.87	97		69-125	2		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.22	5.75	110		5.31	102		63-144	8		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.22	5.48	105		5.76	111		64-136	5		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.03	5.26	104		4.99	99		59-134	5		30
Perfluorooctanesulfonamide (FOSA)	ND	5.22	5.00	96		4.87	94		67-137	3		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.22	5.62	108		4.84	93		61-139	15		30
Perfluorododecanoic Acid (PFDoA)	ND	5.22	5.50	105		5.34	102		69-135	3		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1502698-3 WG1502698-4 QC Sample: L2127150-01 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	5.22	6.78	130		6.23	120		66-139	8		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.22	6.40	123		6.44	124		69-133	1		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	117		114		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	74		79		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	94		96		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	114		129		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	98		101		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110		109		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		103		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91		94		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	106		112		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	115		119		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	104		108		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		102		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		102		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	94		99		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		105		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		103		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	84		87		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111		115		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1502698-5 WG1502698-6 QC Sample: L2125836-02 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	5.33	5.22	98		5.63	97		71-135	8		30
Perfluoropentanoic Acid (PFPeA)	ND	5.33	5.21	98		5.67	98		69-132	8		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.73	4.44	94		4.87	95		72-128	9		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.99	5.20	104		5.56	103		62-145	7		30
Perfluorohexanoic Acid (PFHxA)	0.065J	5.33	5.28	98		5.69	97		70-132	7		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	5.01	4.60	92		5.55	102		73-123	19		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.33	5.23	98		5.59	97		71-131	7		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.87	4.68	96		5.41	102		67-130	14		30
Perfluorooctanoic Acid (PFOA)	0.131J	5.33	5.28	97		5.74	97		69-133	8		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.07	5.36	106		5.93	108		64-140	10		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.07	5.15	102		5.08	92		70-132	1		30
Perfluorononanoic Acid (PFNA)	0.163J	5.33	5.29	96		5.82	98		72-129	10		30
Perfluorooctanesulfonic Acid (PFOS)	0.430	4.94	5.14	95		5.75	99		68-136	11		30
Perfluorodecanoic Acid (PFDA)	ND	5.33	5.27	99		5.68	98		69-133	7		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.12	5.55	108		6.10	110		65-137	9		30
Perfluorononanesulfonic Acid (PFNS)	ND	5.13	5.31	104		5.60	101		69-125	5		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.33	5.40	101		6.56	114		63-144	19		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.33	5.24	98		5.54	96		64-136	6		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.14	5.08	99		5.34	96		59-134	5		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.33	5.68	107		6.40	111		61-139	12		30
Perfluorododecanoic Acid (PFDoA)	ND	5.33	5.33	100		5.43	94		69-135	2		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.33	4.91	92		5.17	90		66-139	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1502698-5 WG1502698-6 QC Sample: L2125836-02 Client ID: MS Sample												
Perfluorotetradecanoic Acid (PFTA)	ND	5.33	5.66	106		6.16	107		69-133	8		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	108		111		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	103		102		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	132		129		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	68		65		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	72		63		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110		107		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	109		106		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	111		109		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	110		109		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	114		103		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	102		99		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		81		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	110		107		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	121		119		58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	115		111		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	110		107		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	107		103		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	117		113		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1502698-5 WG1502698-6 QC Sample: L2125836-02 Client ID: MS Sample												
Perfluorooctanesulfonamide (FOSA)	ND	5.33	5.13	96		5.08F	88		67-137	1		30

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	51		52		10-117

PCBS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03
Client ID: 1-B1 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 08:40
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/03/21 09:55
Analyst: JAW
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 03:35
Cleanup Method: EPA 3665A
Cleanup Date: 06/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.9	3.90	1	A
Aroclor 1221	ND		ug/kg	43.9	4.40	1	A
Aroclor 1232	ND		ug/kg	43.9	9.30	1	A
Aroclor 1242	ND		ug/kg	43.9	5.92	1	A
Aroclor 1248	ND		ug/kg	43.9	6.58	1	A
Aroclor 1254	ND		ug/kg	43.9	4.80	1	A
Aroclor 1260	ND		ug/kg	43.9	8.11	1	A
Aroclor 1262	ND		ug/kg	43.9	5.57	1	A
Aroclor 1268	ND		ug/kg	43.9	4.55	1	A
PCBs, Total	ND		ug/kg	43.9	3.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	41		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	40		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05
Client ID: 4-B1 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 10:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/03/21 10:03
Analyst: JAW
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 03:35
Cleanup Method: EPA 3665A
Cleanup Date: 06/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.1	3.65	1	A
Aroclor 1221	ND		ug/kg	41.1	4.12	1	A
Aroclor 1232	ND		ug/kg	41.1	8.71	1	A
Aroclor 1242	ND		ug/kg	41.1	5.54	1	A
Aroclor 1248	ND		ug/kg	41.1	6.16	1	A
Aroclor 1254	ND		ug/kg	41.1	4.50	1	A
Aroclor 1260	ND		ug/kg	41.1	7.59	1	A
Aroclor 1262	ND		ug/kg	41.1	5.22	1	A
Aroclor 1268	ND		ug/kg	41.1	4.26	1	A
PCBs, Total	ND		ug/kg	41.1	3.65	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07
Client ID: 10-B2 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 12:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/03/21 10:11
Analyst: JAW
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 03:35
Cleanup Method: EPA 3665A
Cleanup Date: 06/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	3.37	1	A
Aroclor 1221	ND		ug/kg	38.0	3.80	1	A
Aroclor 1232	ND		ug/kg	38.0	8.04	1	A
Aroclor 1242	ND		ug/kg	38.0	5.12	1	A
Aroclor 1248	ND		ug/kg	38.0	5.69	1	A
Aroclor 1254	553		ug/kg	38.0	4.15	1	B
Aroclor 1260	69.0		ug/kg	38.0	7.01	1	B
Aroclor 1262	ND		ug/kg	38.0	4.82	1	A
Aroclor 1268	ND		ug/kg	38.0	3.93	1	A
PCBs, Total	622		ug/kg	38.0	3.37	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	47		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09
Client ID: 9-B1 (6-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/03/21 10:19
Analyst: JAW
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 03:35
Cleanup Method: EPA 3665A
Cleanup Date: 06/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.7	3.44	1	A
Aroclor 1221	ND		ug/kg	38.7	3.88	1	A
Aroclor 1232	ND		ug/kg	38.7	8.21	1	A
Aroclor 1242	ND		ug/kg	38.7	5.22	1	A
Aroclor 1248	ND		ug/kg	38.7	5.81	1	A
Aroclor 1254	ND		ug/kg	38.7	4.23	1	A
Aroclor 1260	ND		ug/kg	38.7	7.15	1	A
Aroclor 1262	ND		ug/kg	38.7	4.92	1	A
Aroclor 1268	ND		ug/kg	38.7	4.01	1	A
PCBs, Total	ND		ug/kg	38.7	3.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	35		30-150	A
Decachlorobiphenyl	32		30-150	A
2,4,5,6-Tetrachloro-m-xylene	35		30-150	B
Decachlorobiphenyl	35		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/03/21 08:49
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 06/02/21 03:35
Cleanup Method: EPA 3665A
Cleanup Date: 06/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03,05,07,09 Batch: WG1506322-1						
Aroclor 1016	ND		ug/kg	31.9	2.84	A
Aroclor 1221	ND		ug/kg	31.9	3.20	A
Aroclor 1232	ND		ug/kg	31.9	6.77	A
Aroclor 1242	ND		ug/kg	31.9	4.31	A
Aroclor 1248	ND		ug/kg	31.9	4.79	A
Aroclor 1254	ND		ug/kg	31.9	3.50	A
Aroclor 1262	ND		ug/kg	31.9	4.06	A
Aroclor 1268	ND		ug/kg	31.9	3.31	A
Aroclor 1260	12.5	J	ug/kg	31.9	5.90	B
PCBs, Total	12.5	J	ug/kg	31.9	2.84	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	67		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1506322-2 WG1506322-3									
Aroclor 1016	64		66		40-140	3		50	A
Aroclor 1260	65		65		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		64		30-150	A
Decachlorobiphenyl	67		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		66		30-150	B
Decachlorobiphenyl	65		66		30-150	B

PESTICIDES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03
Client ID: 1-B1 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 08:40
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/02/21 16:39
Analyst: AR
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 02:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.03	0.397	1	A
Lindane	ND		ug/kg	0.845	0.378	1	A
Alpha-BHC	ND		ug/kg	0.845	0.240	1	A
Beta-BHC	ND		ug/kg	2.03	0.769	1	A
Heptachlor	ND		ug/kg	1.01	0.455	1	A
Aldrin	ND		ug/kg	2.03	0.714	1	A
Heptachlor epoxide	ND		ug/kg	3.80	1.14	1	A
Endrin	ND		ug/kg	0.845	0.346	1	A
Endrin aldehyde	ND		ug/kg	2.54	0.887	1	A
Endrin ketone	ND		ug/kg	2.03	0.522	1	A
Dieldrin	ND		ug/kg	1.27	0.634	1	A
4,4'-DDE	ND		ug/kg	2.03	0.469	1	A
4,4'-DDD	ND		ug/kg	2.03	0.723	1	A
4,4'-DDT	ND		ug/kg	3.80	1.63	1	A
Endosulfan I	ND		ug/kg	2.03	0.479	1	A
Endosulfan II	ND		ug/kg	2.03	0.678	1	A
Endosulfan sulfate	ND		ug/kg	0.845	0.402	1	A
Methoxychlor	ND		ug/kg	3.80	1.18	1	A
Toxaphene	ND		ug/kg	38.0	10.6	1	A
cis-Chlordane	ND		ug/kg	2.54	0.706	1	A
trans-Chlordane	ND		ug/kg	2.54	0.669	1	A
Chlordane	ND		ug/kg	16.9	6.72	1	A

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03 Date Collected: 05/20/21 08:40

Client ID: 1-B1 (7.5-8.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**151**	Q	30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05
Client ID: 4-B1 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 10:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/02/21 16:51
Analyst: AR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 02:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.02	0.395	1	A
Lindane	ND		ug/kg	0.840	0.375	1	A
Alpha-BHC	ND		ug/kg	0.840	0.238	1	A
Beta-BHC	ND		ug/kg	2.02	0.764	1	A
Heptachlor	ND		ug/kg	1.01	0.452	1	A
Aldrin	ND		ug/kg	2.02	0.710	1	A
Heptachlor epoxide	ND		ug/kg	3.78	1.13	1	A
Endrin	ND		ug/kg	0.840	0.344	1	A
Endrin aldehyde	ND		ug/kg	2.52	0.882	1	A
Endrin ketone	ND		ug/kg	2.02	0.519	1	A
Dieldrin	ND		ug/kg	1.26	0.630	1	A
4,4'-DDE	ND		ug/kg	2.02	0.466	1	A
4,4'-DDD	ND		ug/kg	2.02	0.719	1	A
4,4'-DDT	ND		ug/kg	3.78	1.62	1	A
Endosulfan I	ND		ug/kg	2.02	0.476	1	A
Endosulfan II	ND		ug/kg	2.02	0.673	1	A
Endosulfan sulfate	ND		ug/kg	0.840	0.400	1	A
Methoxychlor	ND		ug/kg	3.78	1.18	1	A
Toxaphene	ND		ug/kg	37.8	10.6	1	A
cis-Chlordane	ND		ug/kg	2.52	0.702	1	A
trans-Chlordane	ND		ug/kg	2.52	0.665	1	A
Chlordane	ND		ug/kg	16.8	6.68	1	A

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05 Date Collected: 05/20/21 10:30

Client ID: 4-B1 (6.5-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07
Client ID: 10-B2 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 12:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/02/21 17:04
Analyst: AR
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 02:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.79	0.350	1	A
Lindane	ND		ug/kg	0.746	0.333	1	A
Alpha-BHC	ND		ug/kg	0.746	0.212	1	A
Beta-BHC	ND		ug/kg	1.79	0.678	1	A
Heptachlor	ND		ug/kg	0.895	0.401	1	A
Aldrin	ND		ug/kg	1.79	0.630	1	A
Heptachlor epoxide	ND		ug/kg	3.35	1.01	1	A
Endrin	ND		ug/kg	0.746	0.306	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.783	1	A
Endrin ketone	ND		ug/kg	1.79	0.461	1	A
Dieldrin	ND		ug/kg	1.12	0.559	1	A
4,4'-DDE	ND		ug/kg	1.79	0.414	1	A
4,4'-DDD	ND		ug/kg	1.79	0.638	1	A
4,4'-DDT	ND		ug/kg	3.35	1.44	1	A
Endosulfan I	ND		ug/kg	1.79	0.423	1	A
Endosulfan II	ND		ug/kg	1.79	0.598	1	A
Endosulfan sulfate	ND		ug/kg	0.746	0.355	1	A
Methoxychlor	ND		ug/kg	3.35	1.04	1	A
Toxaphene	ND		ug/kg	33.5	9.39	1	A
cis-Chlordane	ND		ug/kg	2.24	0.623	1	A
trans-Chlordane	ND		ug/kg	2.24	0.590	1	A
Chlordane	ND		ug/kg	14.9	5.93	1	A

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07 Date Collected: 05/20/21 12:15

Client ID: 10-B2 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**213**	Q	30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	129		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09
Client ID: 9-B1 (6-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/02/21 13:18
Analyst: AR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 02:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	0.365	1	A
Lindane	ND		ug/kg	0.776	0.347	1	A
Alpha-BHC	ND		ug/kg	0.776	0.220	1	A
Beta-BHC	ND		ug/kg	1.86	0.706	1	A
Heptachlor	ND		ug/kg	0.931	0.418	1	A
Aldrin	ND		ug/kg	1.86	0.656	1	A
Heptachlor epoxide	ND		ug/kg	3.49	1.05	1	A
Endrin	ND		ug/kg	0.776	0.318	1	A
Endrin aldehyde	ND		ug/kg	2.33	0.815	1	A
Endrin ketone	ND		ug/kg	1.86	0.480	1	A
Dieldrin	ND		ug/kg	1.16	0.582	1	A
4,4'-DDE	ND		ug/kg	1.86	0.431	1	A
4,4'-DDD	ND		ug/kg	1.86	0.664	1	A
4,4'-DDT	ND		ug/kg	3.49	1.50	1	A
Endosulfan I	ND		ug/kg	1.86	0.440	1	A
Endosulfan II	ND		ug/kg	1.86	0.622	1	A
Endosulfan sulfate	ND		ug/kg	0.776	0.369	1	A
Methoxychlor	ND		ug/kg	3.49	1.09	1	A
Toxaphene	ND		ug/kg	34.9	9.78	1	A
cis-Chlordane	ND		ug/kg	2.33	0.649	1	A
trans-Chlordane	ND		ug/kg	2.33	0.615	1	A
Chlordane	ND		ug/kg	15.5	6.17	1	A

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09 Date Collected: 05/20/21 07:30

Client ID: 9-B1 (6-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/02/21 14:09
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 06/02/21 02:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03,05,07,09 Batch: WG1506308-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.638	0.285	A
Alpha-BHC	ND		ug/kg	0.638	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.581	A
Heptachlor	ND		ug/kg	0.766	0.344	A
Aldrin	ND		ug/kg	1.53	0.540	A
Heptachlor epoxide	ND		ug/kg	2.87	0.862	A
Endrin	ND		ug/kg	0.638	0.262	A
Endrin aldehyde	ND		ug/kg	1.92	0.670	A
Endrin ketone	ND		ug/kg	1.53	0.395	A
Dieldrin	ND		ug/kg	0.958	0.479	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.547	A
4,4'-DDT	ND		ug/kg	2.87	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.512	A
Endosulfan sulfate	ND		ug/kg	0.638	0.304	A
Methoxychlor	ND		ug/kg	2.87	0.894	A
Toxaphene	ND		ug/kg	28.7	8.04	A
cis-Chlordane	ND		ug/kg	1.92	0.534	A
trans-Chlordane	ND		ug/kg	1.92	0.506	A
Chlordane	ND		ug/kg	12.8	5.08	A

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/02/21 14:09
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 06/02/21 02:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03,05,07,09 Batch: WG1506308-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	85		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1506308-2 WG1506308-3									
Delta-BHC	80		83		30-150	4		30	A
Lindane	81		85		30-150	5		30	A
Alpha-BHC	86		91		30-150	6		30	A
Beta-BHC	70		73		30-150	4		30	A
Heptachlor	80		88		30-150	10		30	A
Aldrin	81		86		30-150	6		30	A
Heptachlor epoxide	74		78		30-150	5		30	A
Endrin	81		86		30-150	6		30	A
Endrin aldehyde	46		51		30-150	10		30	A
Endrin ketone	64		66		30-150	3		30	A
Dieldrin	85		89		30-150	5		30	A
4,4'-DDE	82		86		30-150	5		30	A
4,4'-DDD	81		85		30-150	5		30	A
4,4'-DDT	79		82		30-150	4		30	A
Endosulfan I	76		80		30-150	5		30	A
Endosulfan II	75		78		30-150	4		30	A
Endosulfan sulfate	50		51		30-150	2		30	A
Methoxychlor	62		69		30-150	11		30	A
cis-Chlordane	67		70		30-150	4		30	A
trans-Chlordane	83		87		30-150	5		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1506308-2 WG1506308-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		83		30-150	A
Decachlorobiphenyl	83		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		79		30-150	B
Decachlorobiphenyl	91		95		30-150	B

METALS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03
Client ID: 1-B1 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/20/21 08:40
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5750		mg/kg	9.90	2.67	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Antimony, Total	2.64	J	mg/kg	4.95	0.376	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Arsenic, Total	18.0		mg/kg	0.990	0.206	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Barium, Total	144		mg/kg	0.990	0.172	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Beryllium, Total	0.356	J	mg/kg	0.495	0.033	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Cadmium, Total	1.13		mg/kg	0.990	0.097	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Calcium, Total	7150		mg/kg	9.90	3.47	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Chromium, Total	17.0		mg/kg	0.990	0.095	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Cobalt, Total	12.1		mg/kg	1.98	0.164	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Copper, Total	76.9		mg/kg	0.990	0.256	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Iron, Total	29600		mg/kg	4.95	0.894	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Lead, Total	917		mg/kg	4.95	0.265	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Magnesium, Total	2380		mg/kg	9.90	1.52	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Manganese, Total	311		mg/kg	0.990	0.157	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Mercury, Total	1.87		mg/kg	0.083	0.054	1	05/27/21 11:20	05/31/21 14:45	EPA 7471B	1,7471B	OU
Nickel, Total	16.3		mg/kg	2.48	0.240	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Potassium, Total	525		mg/kg	248	14.3	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Selenium, Total	0.812	J	mg/kg	1.98	0.256	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.990	0.280	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Sodium, Total	143	J	mg/kg	198	3.12	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.98	0.312	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Vanadium, Total	20.1		mg/kg	0.990	0.201	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Zinc, Total	228		mg/kg	4.95	0.290	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05
Client ID: 4-B1 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/20/21 10:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2890		mg/kg	9.94	2.68	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Antimony, Total	6.19		mg/kg	4.97	0.378	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Arsenic, Total	10.3		mg/kg	0.994	0.207	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Barium, Total	95.5		mg/kg	0.994	0.173	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Beryllium, Total	0.139	J	mg/kg	0.497	0.033	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Cadmium, Total	0.795	J	mg/kg	0.994	0.097	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Calcium, Total	3860		mg/kg	9.94	3.48	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Chromium, Total	12.5		mg/kg	0.994	0.095	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Cobalt, Total	3.84		mg/kg	1.99	0.165	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Copper, Total	156		mg/kg	0.994	0.256	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Iron, Total	27200		mg/kg	4.97	0.897	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Lead, Total	372		mg/kg	4.97	0.266	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Magnesium, Total	1490		mg/kg	9.94	1.53	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Manganese, Total	194		mg/kg	0.994	0.158	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Mercury, Total	1.86		mg/kg	0.080	0.052	1	05/27/21 11:20	05/31/21 14:48	EPA 7471B	1,7471B	OU
Nickel, Total	18.4		mg/kg	2.48	0.240	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Potassium, Total	631		mg/kg	248	14.3	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Selenium, Total	1.04	J	mg/kg	1.99	0.256	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.994	0.281	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Sodium, Total	164	J	mg/kg	199	3.13	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.99	0.313	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Vanadium, Total	12.1		mg/kg	0.994	0.202	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Zinc, Total	203		mg/kg	4.97	0.291	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07
Client ID: 10-B2 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/20/21 12:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4960		mg/kg	9.25	2.50	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Antimony, Total	0.906	J	mg/kg	4.62	0.351	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Arsenic, Total	28.8		mg/kg	0.925	0.192	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Barium, Total	255		mg/kg	0.925	0.161	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Beryllium, Total	0.324	J	mg/kg	0.462	0.031	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Cadmium, Total	1.06		mg/kg	0.925	0.091	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Calcium, Total	4820		mg/kg	9.25	3.24	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Chromium, Total	58.1		mg/kg	0.925	0.089	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Cobalt, Total	4.22		mg/kg	1.85	0.154	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Copper, Total	102		mg/kg	0.925	0.239	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Iron, Total	13800		mg/kg	4.62	0.835	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Lead, Total	1250		mg/kg	4.62	0.248	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Magnesium, Total	1390		mg/kg	9.25	1.42	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Manganese, Total	254		mg/kg	0.925	0.147	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Mercury, Total	1.62		mg/kg	0.074	0.048	1	05/27/21 11:20	05/31/21 14:51	EPA 7471B	1,7471B	OU
Nickel, Total	8.90		mg/kg	2.31	0.224	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Potassium, Total	516		mg/kg	231	13.3	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Selenium, Total	0.518	J	mg/kg	1.85	0.239	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.925	0.262	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Sodium, Total	243		mg/kg	185	2.91	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.85	0.291	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Vanadium, Total	14.8		mg/kg	0.925	0.188	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Zinc, Total	302		mg/kg	4.62	0.271	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09
Client ID: 9-B1 (6-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/20/21 07:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6720		mg/kg	9.05	2.44	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Antimony, Total	0.344	J	mg/kg	4.52	0.344	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Arsenic, Total	3.38		mg/kg	0.905	0.188	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Barium, Total	63.6		mg/kg	0.905	0.157	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Beryllium, Total	0.416	J	mg/kg	0.452	0.030	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Cadmium, Total	0.434	J	mg/kg	0.905	0.089	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Calcium, Total	8840		mg/kg	9.05	3.17	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Chromium, Total	17.3		mg/kg	0.905	0.087	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Cobalt, Total	8.92		mg/kg	1.81	0.150	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Copper, Total	37.8		mg/kg	0.905	0.233	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Iron, Total	19400		mg/kg	4.52	0.817	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Lead, Total	73.6		mg/kg	4.52	0.242	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Magnesium, Total	2780		mg/kg	9.05	1.39	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Manganese, Total	716		mg/kg	0.905	0.144	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Mercury, Total	0.304		mg/kg	0.075	0.049	1	05/27/21 11:20	05/31/21 14:55	EPA 7471B	1,7471B	OU
Nickel, Total	14.3		mg/kg	2.26	0.219	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Potassium, Total	3150		mg/kg	226	13.0	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Selenium, Total	0.353	J	mg/kg	1.81	0.233	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.905	0.256	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Sodium, Total	187		mg/kg	181	2.85	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.81	0.285	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Vanadium, Total	35.2		mg/kg	0.905	0.184	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Zinc, Total	65.3		mg/kg	4.52	0.265	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03,05,07,09 Batch: WG1504105-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Barium, Total	ND		mg/kg	0.400	0.070	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Calcium, Total	6.04		mg/kg	4.00	1.40	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Copper, Total	ND		mg/kg	0.400	0.103	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Iron, Total	3.04		mg/kg	2.00	0.361	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Lead, Total	ND		mg/kg	2.00	0.107	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Manganese, Total	0.124	J	mg/kg	0.400	0.064	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Potassium, Total	ND		mg/kg	100	5.76	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Silver, Total	ND		mg/kg	0.400	0.113	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Sodium, Total	ND		mg/kg	80.0	1.26	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03,05,07,09 Batch: WG1504106-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/27/21 11:20	05/31/21 14:19	1,7471B	OU

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 Batch: WG1504105-2 SRM Lot Number: D109-540								
Aluminum, Total	61		-		50-150	-		
Antimony, Total	178		-		19-250	-		
Arsenic, Total	115		-		70-130	-		
Barium, Total	100		-		75-125	-		
Beryllium, Total	108		-		75-125	-		
Cadmium, Total	106		-		75-125	-		
Calcium, Total	102		-		73-128	-		
Chromium, Total	105		-		70-130	-		
Cobalt, Total	105		-		75-125	-		
Copper, Total	105		-		75-125	-		
Iron, Total	89		-		35-165	-		
Lead, Total	108		-		72-128	-		
Magnesium, Total	88		-		62-138	-		
Manganese, Total	103		-		74-126	-		
Nickel, Total	106		-		70-130	-		
Potassium, Total	83		-		59-141	-		
Selenium, Total	118		-		68-132	-		
Silver, Total	110		-		68-131	-		
Sodium, Total	108		-		35-165	-		
Thallium, Total	107		-		68-131	-		
Vanadium, Total	102		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 Batch: WG1504105-2 SRM Lot Number: D109-540					
Zinc, Total	108	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 Batch: WG1504106-2 SRM Lot Number: D109-540					
Mercury, Total	93	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504105-3 QC Sample: L2127504-01 Client ID: MS Sample												
Aluminum, Total	7200	157	6940	**0**	Q	-	-		75-125	-		20
Antimony, Total	ND	39.2	34.3	87		-	-		75-125	-		20
Arsenic, Total	2.44	9.41	12.5	107		-	-		75-125	-		20
Barium, Total	102	157	225	78		-	-		75-125	-		20
Beryllium, Total	0.384J	3.92	4.38	112		-	-		75-125	-		20
Cadmium, Total	0.431J	4	3.87	97		-	-		75-125	-		20
Calcium, Total	93800B	784	86600	**0**	Q	-	-		75-125	-		20
Chromium, Total	10.5	15.7	23.5	83		-	-		75-125	-		20
Cobalt, Total	7.80	39.2	41.6	86		-	-		75-125	-		20
Copper, Total	14.3	19.6	32.5	93		-	-		75-125	-		20
Iron, Total	13300B	78.4	11900	**0**	Q	-	-		75-125	-		20
Lead, Total	13.2	40	45.8	82		-	-		75-125	-		20
Magnesium, Total	14400	784	18100	**472**	Q	-	-		75-125	-		20
Manganese, Total	248	39.2	300	**133**	Q	-	-		75-125	-		20
Nickel, Total	6.21	39.2	38.9	83		-	-		75-125	-		20
Potassium, Total	2020	784	2500	**61**	Q	-	-		75-125	-		20
Selenium, Total	0.525J	9.41	10.4	110		-	-		75-125	-		20
Silver, Total	2.48	23.5	26.6	102		-	-		75-125	-		20
Sodium, Total	1000	784	1650	83		-	-		75-125	-		20
Thallium, Total	ND	9.41	6.85	**73**	Q	-	-		75-125	-		20
Vanadium, Total	14.2	39.2	50.9	94		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504105-3 QC Sample: L2127504-01 Client ID: MS Sample										
Zinc, Total	39.9	39.2	68.4	**73**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504106-3 QC Sample: L2127090-01 Client ID: MS Sample										
Mercury, Total	0.086	0.135	0.270	**136**	Q	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504105-4 QC Sample: L2127504-01 Client ID: DUP Sample						
Aluminum, Total	7200	6500	mg/kg	10		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	2.44	2.12	mg/kg	14		20
Barium, Total	102	117	mg/kg	14		20
Beryllium, Total	0.384J	0.341J	mg/kg	NC		20
Cadmium, Total	0.431J	0.256J	mg/kg	NC		20
Chromium, Total	10.5	8.67	mg/kg	19		20
Cobalt, Total	7.80	6.90	mg/kg	12		20
Copper, Total	14.3	12.0	mg/kg	17		20
Iron, Total	13300B	12400	mg/kg	7		20
Lead, Total	13.2	9.28	mg/kg	**35**	Q	20
Magnesium, Total	14400	18600	mg/kg	**25**	Q	20
Manganese, Total	248	232	mg/kg	7		20
Nickel, Total	6.21	5.65	mg/kg	9		20
Potassium, Total	2020	1820	mg/kg	10		20
Selenium, Total	0.525J	0.489J	mg/kg	NC		20
Silver, Total	2.48	0.566J	mg/kg	NC		20
Sodium, Total	1000	890	mg/kg	12		20
Thallium, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504105-4 QC Sample: L2127504-01 Client ID: DUP Sample						
Vanadium, Total	14.2	13.4	mg/kg	6		20
Zinc, Total	39.9	29.9	mg/kg	**29**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504105-4 QC Sample: L2127504-01 Client ID: DUP Sample						
Calcium, Total	93800B	95200	mg/kg	1		20
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504106-4 QC Sample: L2127090-01 Client ID: DUP Sample						
Mercury, Total	0.086	0.086	mg/kg	1		20

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2126901
Report Date: 06/28/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504105-6 QC Sample: L2127504-01 Client ID: DUP Sample						
Aluminum, Total	7200	7860	mg/kg	9		20
Barium, Total	102	114	mg/kg	12		20
Iron, Total	13300B	15300	mg/kg	15		20
Magnesium, Total	14400	17500	mg/kg	**22**	Q	20
Manganese, Total	248	287	mg/kg	16		20
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504105-6 QC Sample: L2127504-01 Client ID: DUP Sample						
Calcium, Total	93800B	97000	mg/kg	3		20

INORGANICS
&
MISCELLANEOUS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-01
Client ID: 2-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/20/21 07:00
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-02
Client ID: 2-B1 (24.5-25)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:35
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.3		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03
Client ID: 1-B1 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/20/21 08:40
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.8		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-04
Client ID: 1-B1 (24.5-25)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/20/21 09:15
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	43.0		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05
Client ID: 4-B1 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/20/21 10:30
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.5		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-06
Client ID: 4-B1 (24-24.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/20/21 11:00
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	49.6		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07
Client ID: 10-B2 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 12:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-08
Client ID: 10-B2 (34.5-35)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/20/21 13:00
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09
Client ID: 9-B1 (6-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/20/21 07:30
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.6		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-10
Client ID: 9-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/20/21 07:45
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.7		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1502359-1 QC Sample: L2126678-01 Client ID: DUP Sample						
Solids, Total	92.3	92.5	%	0		20

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126901-01A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-01B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-01C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-01D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L2126901-01E	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14)
L2126901-01X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-01Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-01Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-02A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-02B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-02C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-02D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-02X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-02Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-02Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-03A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-03B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-03C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-03D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-03E	Plastic 120ml unpreserved	B	NA		3.9	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126901-03F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),HG-T(28),FE-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2126901-03G	Plastic 8oz unpreserved	B	NA		3.9	Y	Absent		A2-NY-537-ISOTOPE(14)
L2126901-03H	Glass 250ml/8oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2126901-03X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-03Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-03Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-04A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-04B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-04C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-04D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-04X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-04Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-04Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-05A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-05B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-05C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-05D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-05E	Plastic 120ml unpreserved	B	NA		3.9	Y	Absent		TS(7)
L2126901-05F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),FE-TI(180),MG-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2126901-05G	Plastic 8oz unpreserved	B	NA		3.9	Y	Absent		A2-NY-537-ISOTOPE(14)
L2126901-05H	Glass 250ml/8oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2126901-05X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-05Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126901-05Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-06A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-06B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-06C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-06D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-06X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-06Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-06Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-07A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-07B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-07C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-07D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-07E	Plastic 120ml unpreserved	B	NA		3.9	Y	Absent		TS(7)
L2126901-07F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2126901-07G	Plastic 8oz unpreserved	B	NA		3.9	Y	Absent		A2-NY-537-ISOTOPE(14)
L2126901-07H	Glass 250ml/8oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2126901-07X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-07Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-07Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-08A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-08B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-08C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-08D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-08X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-08Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126901-08Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-09A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-09B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-09C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-09D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-09E	Plastic 120ml unpreserved	B	NA		3.9	Y	Absent		TS(7)
L2126901-09F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2126901-09G	Plastic 8oz unpreserved	B	NA		3.9	Y	Absent		A2-NY-537-ISOTOPE(14)
L2126901-09H	Glass 250ml/8oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2126901-09X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-09Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-09Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-10A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-10B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-10C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-10D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L2126901-10E	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14)
L2126901-10X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-10Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-10Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	AVANT GARDNER	**Lab Number:**	L2126901
Project Number:	17244793	**Report Date:**	06/28/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2126901
Project Number:	17244793	**Report Date:**	06/28/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2126901
Project Number:	17244793	**Report Date:**	06/28/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Project Name:	AVANT GARDNER	**Lab Number:**	L2126901
Project Number:	17244793	**Report Date:**	06/28/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 5/21/21

ALPHA Job #: L2126901

Client Information

Client: PSG (Partner)
Address: 611 Industrial Way W
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLen te partnereserv.com

Project Information

Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project # 172433 13
(Use Project name as Project #) [X]
Project Manager: David Lent.
ALPHAQuote #:

Turn-Around Time

Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL. TAL Metals

Deliverables

- [ ] ASP-A
- [ ] ASP-B
- [X] EQuIS (1 File)
- [X] EQuIS (4 File)
- [ ] Other

Regulatory Requirement

- [X] NY TOGS
- [ ] NY Part 375
- [X] AWQ Standards
- [X] NY CP-51
- [X] NY Restricted Use
- [ ] Other
- [X] NY Unrestricted Use
- [ ] NYC Sewer Discharge

Billing Information

- [X] Same as Client Info

PO # 17243313

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
- [ ] NJ
- [ ] NY
- [ ] Other:

ANALYSIS

Sample Filtration
- [ ] Done
- [ ] Lab to do

Preservation
- [ ] Lab to do

(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs (8260)	SVOCs (8270)	TAL Metals	PCBs	Pesticides	PFAs	1,4 Dioxane	Sample Specific Comments
26901-01	2-B1 (7.5-8)	5-20	700	AH	S	X	X						
-02	2-B1 (24.5-25)	5-20	735	AH	S	X							
-03	1-B1 (7.5-8.5)	5-20	840	AH	S	X	X	X	X	X	X	X	
-04	1-B1 (24-24.5)	5-20	915	AH	S	X							
-05	4-B1 (6.5-7)	5-20	1030	AH	S	X	X	X	X	X	X	X	
-06	4-B1 (24-24.5)	5-20	1100	AH	S	X							
-07	10-B2	5-20	1215	AH	S	X	X	X	X	X	X	X	
-08	10-B2 (34.5-35)	5-20	1300	AH	S	X							
-09	9-B1 (6-7)	5-21	730	AH	S	X	X	X	X	X	X	X	
-10	9-B1 (8.5-9)	5-21	745	AH	S	X	X						
	Container Type					E	A	A	A	A	P	A	
	Preservative					A	A	A	A	A	A	A	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/21/21 1900		
	5/21/21 12:10	Alpha	5/21/21 08:40

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 5/21/21

ALPHA Job #: L2126901

Client Information
Client: PSG (Partner)
Address: 611 Industrial Way W
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLent@partnereseiam

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project # 17243313
(Use Project name as Project #) [X]
Project Manager: David Lent.
ALPHAQuote #:

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables
- [ ] ASP-A
- [ ] ASP-B
- [X] EQuIS (1 File)
- [X] EQuIS (4 File)
- [ ] Other

Regulatory Requirement
- [X] NY TOGS
- [X] AWQ Standards
- [X] NY Restricted Use
- [X] NY Unrestricted Use
- [ ] NYC Sewer Discharge
- [ ] NY Part 375
- [X] NY CP-51
- [ ] Other

Billing Information
- [X] Same as Client Info

PO # 17243313

Disposal Site Information
Please identify below location of applicable disposal facilities.

Disposal Facility:
- [ ] NJ
- [ ] NY
- [ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL. TAL Metals

ANALYSIS

Sample Filtration
- [ ] Done
- [ ] Lab to do

Preservation
- [ ] Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs (8260)	SVOCs (8270)	TAL Metals	PCBs	Pesticides	PFAs	1,4 Dioxane	Total Bottle	Sample Specific Comments
26901-01	2-B1 (7.5-8)	5-20	700	AH	S	X	X							
-02	2-B1 (24.5-25)	5-20	735	AH	S	X								
-03	1-B1 (7.5-8.5)	5-20	840	AH	S	X	X	X	X	X	X	X		
-04	1-B1 (24-24.5)	5-20	915	AH	S	X								
-05	4-B1 (6.5-7)	5-20	1030	AH	S	X	X	X	X	X	X	X		
-06	4-B1 (24-24.5)	5-20	1100	AH	S	X								
-07	10-B2	5-20	1215	AH	S	X	X	Y	V	V	X	X		
-08	10-B2 (34.5-35)	5-20	1300	AH	S	X								
-09	9-B1 (6-7)	5-21	730	AH	S	X	X	X	X	X	X	X		
-10	9-B1 (8.5-9)	5-21	745	AH	S	X	X							
	Container Type					E	A	A	A	A	P	A		
	Preservative					A	A	A	A	A	A	A		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

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	5/21/21 12:10	Alpha	5/21/21 18:40

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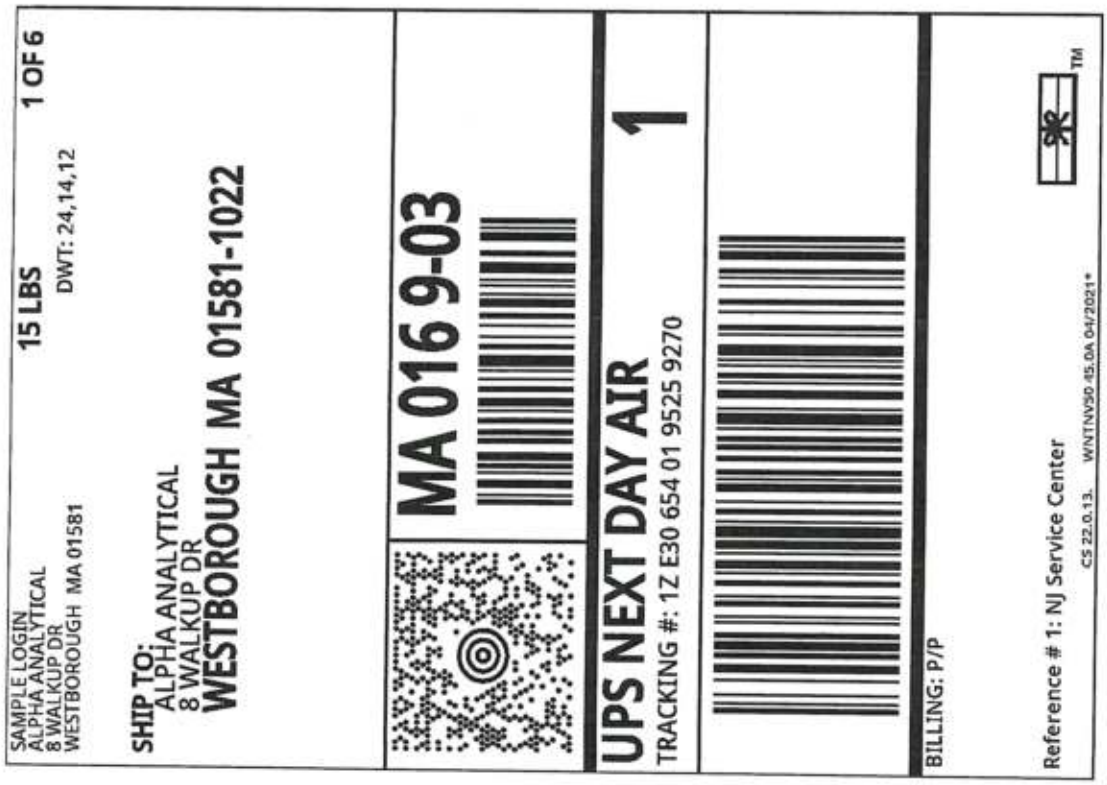

ANALYTICAL REPORT

Lab Number:	L2335541
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER
Project Number:	ES22-387153
Report Date:	07/19/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2335541-01	8B-1N-GW	WATER	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:00	06/21/23
L2335541-02	8B-1NN-GW	WATER	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:00	06/21/23
L2335541-03	8B-1E-GW	WATER	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:00	06/21/23
L2335541-04	8B-1S-GW	WATER	140 STEWART AVE., BROOKLYN, NY	06/20/23 11:00	06/21/23
L2335541-05	8B-1SS-GW	WATER	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:00	06/21/23
L2335541-06	8B-1W-GW	WATER	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:15	06/21/23
L2335541-07	8B-1WW-GW	WATER	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:30	06/21/23
L2335541-08	8B-1N (5.0-5.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 11:15	06/21/23
L2335541-09	8B-1NN (1.5-2.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:30	06/21/23
L2335541-10	8B-1NN (4.5-5.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:35	06/21/23
L2335541-11	8B-1NN (6.0-6.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:40	06/21/23
L2335541-12	8B-1E (6.0-6.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:50	06/21/23
L2335541-13	8B-1S (1.5-2.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:55	06/21/23
L2335541-14	8B-1S (4.5-5.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:00	06/21/23
L2335541-15	8B-1S (6.5-7.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:05	06/21/23
L2335541-16	8B-1SS (1.5-2.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:20	06/21/23
L2335541-17	8B-1SS (4.5-5.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:25	06/21/23
L2335541-18	8B-1SS (6.5-7.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:30	06/21/23
L2335541-19	8B-1W (1.5-2.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:35	06/21/23
L2335541-20	8B-1W (4.5-5.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:40	06/21/23
L2335541-21	8B-1W (6.5-7.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:45	06/21/23
L2335541-22	8B-1W (6.5-7.0) DUP	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:45	06/21/23
L2335541-23	8B-1WW (1.0-1.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 11:45	06/21/23
L2335541-24	8B-1WW (4.5-5.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 11:50	06/21/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2335541-25	8B-1WW (6.0-6.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:00	06/21/23
L2335541-26	7-B1W (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 08:50	06/21/23
L2335541-27	7-B1W (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 08:55	06/21/23
L2335541-28	7-B1W (6.5-7)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:00	06/21/23
L2335541-29	7-B1WW (1-1.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 08:30	06/21/23
L2335541-30	7-B1WW (4-4.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 08:35	06/21/23
L2335541-31	7-B1WW (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 08:40	06/21/23
L2335541-32	7-B1E (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:15	06/21/23
L2335541-33	7-B1E (4-4.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:20	06/21/23
L2335541-34	7-B1E (5.5-6)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:25	06/21/23
L2335541-35	7-B1N (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:30	06/21/23
L2335541-36	7-B1N (4-4.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:35	06/21/23
L2335541-37	7-B1NN (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:00	06/21/23
L2335541-38	7-B1NN (4-4.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:05	06/21/23
L2335541-39	7-B1NN (5.5-6)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:10	06/21/23
L2335541-40	7-B1S (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:20	06/21/23
L2335541-41	7-B1S (4-4.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:25	06/21/23
L2335541-42	7-B1S (5.5-6)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:30	06/21/23
L2335541-43	7-B1SS (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 11:35	06/21/23
L2335541-44	7-B1SS (5-5.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 11:40	06/21/23
L2335541-45	10-B6W (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:00	06/21/23
L2335541-46	10-B6W (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:05	06/21/23
L2335541-47	10-B6W (7.5-8)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:10	06/21/23
L2335541-48	10-B6WW (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:00	06/21/23
L2335541-49	10-B6WW (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:05	06/21/23
L2335541-50	10-B6WW (9.5-10)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:10	06/21/23
L2335541-51	10-B6N (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:30	06/21/23
L2335541-52	10-B6N (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:35	06/21/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2335541-53	10-B6N (9.5-10)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:40	06/21/23
L2335541-54	10-B6E (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:20	06/21/23
L2335541-55	10-B6E (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:25	06/21/23
L2335541-56	10-B6E (9.5-10)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:30	06/21/23
L2335541-57	10-B6EE (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:00	06/21/23
L2335541-58	10-B6EE (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:05	06/21/23
L2335541-59	10-B6EE (5-5.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:10	06/21/23
L2335541-60	10-B6S (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:40	06/21/23
L2335541-61	10-B6S (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:45	06/21/23
L2335541-62	10-B6S (9.5-10)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:50	06/21/23
L2335541-63	10-B6SS (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 15:00	06/21/23
L2335541-64	10-B6SS (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 15:05	06/21/23
L2335541-65	10-B6SS (9.5-10)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 15:10	06/21/23

Project Name:	AVANT GARDNER	**Lab Number:**	L2335541
Project Number:	ES22-387153	**Report Date:**	07/19/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: AVANT GARDNER **Lab Number:** L2335541
Project Number: ES22-387153 **Report Date:** 07/19/23

Case Narrative (continued)

Report Submission
July 19, 2023: This final report includes the results of all requested analyses.
July 10, 2023: This is a preliminary report.
June 30, 2023: This is a preliminary report.
June 28, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt
L2335541-45: The sample identified as "10-B6W (1.5-2)" on the chain of custody was identified as "10-B6W (1.2-2)" on the container label. At the client's request, the sample is reported as "10-B6W (1.5-2)".

Volatile Organics
L2335541-26: The sample was analyzed as a High Level Methanol in order to quantitate results within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to vial discrepancies.
L2335541-26: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (23%) and the surrogate recovery for 4-bromofluorobenzene (148%) were outside the acceptance criteria; however, re-analysis achieved the following results: chlorobenzene-d5 (42%), and 1,4-dichlorobenzene-d4 (16%), toluene-d8 (135%) and 4-bromofluorobenzene (157%). The results of both analyses are reported.
L2335541-34: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (138%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.
L2335541-42: The surrogate recoveries were outside the acceptance criteria for 1,2-dichloroethane-d4 (132%); however, re-analysis achieved similar results: 1,2-dichloroethane-d4 (140%) and

Project Name:	AVANT GARDNER	**Lab Number:**	L2335541
Project Number:	ES22-387153	**Report Date:**	07/19/23

Case Narrative (continued)

dibromofluoromethane (134%). The results of both analyses are reported.
L2335541-51: The sample was analyzed as a High Level Methanol in order to quantitate results within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the Volatile Organics by EPA Method 5035/8260 High and Low Level analyses which have been attributed to vial discrepancies.
The WG1799631-5 Method Blank, associated with L2335541-50 and -59, has a concentration above the reporting limit for bromomethane. Since the associated sample concentrations are non-detect to the RL for this target analyte, no corrective action is required.

Total Metals
L2335541-02, -08 through -25: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.
The WG1796177-3/-4 MS/MSD recoveries for iron (21300%/20700%), performed on L2335541-21, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG1796177-3/-4 MS/MSD recoveries, performed on L2335541-21, are outside the acceptance criteria for antimony (MS 133%), arsenic (140%/138%), barium (MSD 72%) and chromium (MS 48%). A post digestion spike was performed and was within acceptance criteria.
The WG1796177-3/-4 MS/MSD recoveries for aluminum (805%/358%), calcium (213%/171%), copper (MS 72%), lead (0%/0%), manganese (269%/0%) and zinc (0%/0%), performed on L2335541-21, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG1796178-3/-4 MS/MSD recoveries for mercury (277%/24%), performed on L2335541-21, do not apply because the sample concentration is greater than four times the spike amount added. The MS/MSD RPD, is above the acceptance criteria for mercury (35%).
The WG1796177-3/-4 MS/MSD RPDs for antimony (28%) and manganese (30%), performed on L2335541-21, are above the acceptance criteria.
The WG1800889-3 MS recovery, performed on L2335541-09, is outside the acceptance criteria for mercury

Project Name:	AVANT GARDNER	**Lab Number:**	L2335541
Project Number:	ES22-387153	**Report Date:**	07/19/23

Case Narrative (continued)

(178%). A post digestion spike was performed and was within acceptance criteria.

Dissolved Metals

The WG1801416-4 Laboratory Duplicate RPD for mercury (77%), performed on L2335541-02, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

TCLP Metals

The WG1801962-1 Method Blank, associated with L2335541-20, has a concentration above the reporting limit for mercury. Since the associated sample concentration is non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 07/19/23

ORGANICS

VOLATILES

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26
Client ID: 7-B1W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 08:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 11:01
Analyst: LAC
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	0.93	J	ug/kg	1.1	0.16	1
Chloroform	26		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	2800	E	ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	5.9		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	0.31	J	ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	2.2		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	4.4		ug/kg	1.7	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26 Date Collected: 06/20/23 08:50

Client ID: 7-B1W (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	200		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	0.24	J	ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	0.31	J	ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	0.22	J	ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	360	E	ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	79		ug/kg	1.7	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	11		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	2.8	J	ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26 Date Collected: 06/20/23 08:50

Client ID: 7-B1W (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	88	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	**148**	Q	70-130
Dibromofluoromethane	98		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26
Client ID: 7-B1W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/27/23 21:19
Analyst: MKS
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	300	140	1
1,1-Dichloroethane	ND		ug/kg	61	8.8	1
Chloroform	ND		ug/kg	91	8.5	1
Carbon tetrachloride	ND		ug/kg	61	14.	1
1,2-Dichloropropane	ND		ug/kg	61	7.6	1
Dibromochloromethane	ND		ug/kg	61	8.5	1
1,1,2-Trichloroethane	ND		ug/kg	61	16.	1
Tetrachloroethene	550		ug/kg	30	12.	1
Chlorobenzene	ND		ug/kg	30	7.7	1
Trichlorofluoromethane	ND		ug/kg	240	42.	1
1,2-Dichloroethane	ND		ug/kg	61	16.	1
1,1,1-Trichloroethane	ND		ug/kg	30	10.	1
Bromodichloromethane	ND		ug/kg	30	6.6	1
trans-1,3-Dichloropropene	ND		ug/kg	61	17.	1
cis-1,3-Dichloropropene	ND		ug/kg	30	9.6	1
1,3-Dichloropropene, Total	ND		ug/kg	30	9.6	1
1,1-Dichloropropene	ND		ug/kg	30	9.7	1
Bromoform	ND		ug/kg	240	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	30	10.	1
Benzene	ND		ug/kg	30	10.	1
Toluene	ND		ug/kg	61	33.	1
Ethylbenzene	ND		ug/kg	61	8.6	1
Chloromethane	ND		ug/kg	240	57.	1
Bromomethane	ND		ug/kg	120	35.	1
Vinyl chloride	ND		ug/kg	61	20.	1
Chloroethane	ND		ug/kg	120	28.	1
1,1-Dichloroethene	ND		ug/kg	61	14.	1
trans-1,2-Dichloroethene	ND		ug/kg	91	8.4	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26 Date Collected: 06/20/23 08:50

Client ID: 7-B1W (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	48		ug/kg	30	8.4	1
1,2-Dichlorobenzene	ND		ug/kg	120	8.8	1
1,3-Dichlorobenzene	ND		ug/kg	120	9.0	1
1,4-Dichlorobenzene	ND		ug/kg	120	10.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	ND		ug/kg	120	34.	1
o-Xylene	ND		ug/kg	61	18.	1
Xylenes, Total	ND		ug/kg	61	18.	1
cis-1,2-Dichloroethene	75		ug/kg	61	11.	1
1,2-Dichloroethene, Total	75		ug/kg	61	8.4	1
Dibromomethane	ND		ug/kg	120	14.	1
Styrene	ND		ug/kg	61	12.	1
Dichlorodifluoromethane	ND		ug/kg	610	56.	1
Acetone	ND		ug/kg	610	290	1
Carbon disulfide	ND		ug/kg	610	280	1
2-Butanone	ND		ug/kg	610	140	1
Vinyl acetate	ND		ug/kg	610	130	1
4-Methyl-2-pentanone	ND		ug/kg	610	78.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.7	1
2-Hexanone	ND		ug/kg	610	72.	1
Bromochloromethane	ND		ug/kg	120	12.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	61	17.	1
1,3-Dichloropropane	ND		ug/kg	120	10.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	30	8.0	1
Bromobenzene	ND		ug/kg	120	8.8	1
n-Butylbenzene	ND		ug/kg	61	10.	1
sec-Butylbenzene	ND		ug/kg	61	8.9	1
tert-Butylbenzene	ND		ug/kg	120	7.2	1
o-Chlorotoluene	ND		ug/kg	120	12.	1
p-Chlorotoluene	ND		ug/kg	120	6.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	61.	1
Hexachlorobutadiene	ND		ug/kg	240	10.	1
Isopropylbenzene	ND		ug/kg	61	6.6	1
p-Isopropyltoluene	ND		ug/kg	61	6.6	1
Naphthalene	ND		ug/kg	240	40.	1
Acrylonitrile	ND		ug/kg	240	70.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26 Date Collected: 06/20/23 08:50

Client ID: 7-B1W (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	61	10.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	16.	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	12.	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	20.	1
1,4-Dioxane	ND		ug/kg	4900	2100	1
p-Diethylbenzene	ND		ug/kg	120	11.	1
p-Ethyltoluene	ND		ug/kg	120	23.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	120	12.	1
Ethyl ether	ND		ug/kg	120	21.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	300	86.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	120		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26 R
Client ID: 7-B1W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/27/23 21:42
Analyst: MKS
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	3.7		ug/kg	1.0	0.15	1
Chloroform	92		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	8200	E	ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	16		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	0.77		ug/kg	0.51	0.17	1
Toluene	0.84	J	ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	7.7		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	0.97	J	ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	14		ug/kg	1.5	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26 R
Client ID: 7-B1W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	580	E	ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	0.57	J	ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	0.63	J	ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	0.21	J	ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	1400	E	ug/kg	1.0	0.18	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	7.7	J	ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	3.8	J	ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.66	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1
n-Propylbenzene	ND		ug/kg	1.0	0.17	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26 R
Client ID: 7-B1W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	81	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	**135**	Q	70-130
4-Bromofluorobenzene	**157**	Q	70-130
Dibromofluoromethane	100		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-27 D2 Date Collected: 06/20/23 08:55
Client ID: 7-B1W (4.5-5) Date Received: 06/21/23
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/27/23 20:56
Analyst: MKS
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	3200	1400	10
1,1-Dichloroethane	140	J	ug/kg	630	92.	10
Chloroform	4300		ug/kg	950	88.	10
Carbon tetrachloride	ND		ug/kg	630	140	10
1,2-Dichloropropane	ND		ug/kg	630	79.	10
Dibromochloromethane	ND		ug/kg	630	88.	10
1,1,2-Trichloroethane	ND		ug/kg	630	170	10
Tetrachloroethene	550000	E	ug/kg	320	120	10
Chlorobenzene	ND		ug/kg	320	80.	10
Trichlorofluoromethane	ND		ug/kg	2500	440	10
1,2-Dichloroethane	ND		ug/kg	630	160	10
1,1,1-Trichloroethane	1000		ug/kg	320	100	10
Bromodichloromethane	ND		ug/kg	320	69.	10
trans-1,3-Dichloropropene	ND		ug/kg	630	170	10
cis-1,3-Dichloropropene	ND		ug/kg	320	100	10
1,3-Dichloropropene, Total	ND		ug/kg	320	100	10
1,1-Dichloropropene	ND		ug/kg	320	100	10
Bromoform	ND		ug/kg	2500	160	10
1,1,2,2-Tetrachloroethane	ND		ug/kg	320	100	10
Benzene	ND		ug/kg	320	100	10
Toluene	ND		ug/kg	630	340	10
Ethylbenzene	ND		ug/kg	630	89.	10
Chloromethane	ND		ug/kg	2500	590	10
Bromomethane	ND		ug/kg	1300	370	10
Vinyl chloride	ND		ug/kg	630	210	10
Chloroethane	ND		ug/kg	1300	290	10
1,1-Dichloroethene	ND		ug/kg	630	150	10
trans-1,2-Dichloroethene	330	J	ug/kg	950	87.	10

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-27 D2 Date Collected: 06/20/23 08:55

Client ID: 7-B1W (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	32000		ug/kg	320	87.	10
1,2-Dichlorobenzene	ND		ug/kg	1300	91.	10
1,3-Dichlorobenzene	ND		ug/kg	1300	94.	10
1,4-Dichlorobenzene	ND		ug/kg	1300	110	10
Methyl tert butyl ether	ND		ug/kg	1300	130	10
p/m-Xylene	ND		ug/kg	1300	350	10
o-Xylene	ND		ug/kg	630	180	10
Xylenes, Total	ND		ug/kg	630	180	10
cis-1,2-Dichloroethene	50000		ug/kg	630	110	10
1,2-Dichloroethene, Total	50000	J	ug/kg	630	87.	10
Dibromomethane	ND		ug/kg	1300	150	10
Styrene	ND		ug/kg	630	120	10
Dichlorodifluoromethane	ND		ug/kg	6300	580	10
Acetone	ND		ug/kg	6300	3000	10
Carbon disulfide	ND		ug/kg	6300	2900	10
2-Butanone	ND		ug/kg	6300	1400	10
Vinyl acetate	ND		ug/kg	6300	1400	10
4-Methyl-2-pentanone	ND		ug/kg	6300	810	10
1,2,3-Trichloropropane	ND		ug/kg	1300	80.	10
2-Hexanone	ND		ug/kg	6300	750	10
Bromochloromethane	ND		ug/kg	1300	130	10
2,2-Dichloropropane	ND		ug/kg	1300	130	10
1,2-Dibromoethane	ND		ug/kg	630	180	10
1,3-Dichloropropane	ND		ug/kg	1300	100	10
1,1,1,2-Tetrachloroethane	ND		ug/kg	320	84.	10
Bromobenzene	ND		ug/kg	1300	92.	10
n-Butylbenzene	ND		ug/kg	630	100	10
sec-Butylbenzene	ND		ug/kg	630	92.	10
tert-Butylbenzene	ND		ug/kg	1300	75.	10
o-Chlorotoluene	ND		ug/kg	1300	120	10
p-Chlorotoluene	ND		ug/kg	1300	68.	10
1,2-Dibromo-3-chloropropane	ND		ug/kg	1900	630	10
Hexachlorobutadiene	ND		ug/kg	2500	110	10
Isopropylbenzene	ND		ug/kg	630	69.	10
p-Isopropyltoluene	ND		ug/kg	630	69.	10
Naphthalene	ND		ug/kg	2500	410	10
Acrylonitrile	ND		ug/kg	2500	730	10

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-27 D2 Date Collected: 06/20/23 08:55

Client ID: 7-B1W (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	630	110	10
1,2,3-Trichlorobenzene	ND		ug/kg	1300	200	10
1,2,4-Trichlorobenzene	ND		ug/kg	1300	170	10
1,3,5-Trimethylbenzene	ND		ug/kg	1300	120	10
1,2,4-Trimethylbenzene	ND		ug/kg	1300	210	10
1,4-Dioxane	ND		ug/kg	51000	22000	10
p-Diethylbenzene	ND		ug/kg	1300	110	10
p-Ethyltoluene	ND		ug/kg	1300	240	10
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1300	120	10
Ethyl ether	ND		ug/kg	1300	220	10
trans-1,4-Dichloro-2-butene	ND		ug/kg	3200	900	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	96		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-27 D
Client ID: 7-B1W (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 08:55
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 14:49
Analyst: LAC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	350000		ug/kg	630	250	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-28
Client ID: 7-B1W (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 11:24
Analyst: LAC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.55	J	ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	72		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	0.80		ug/kg	0.54	0.18	1
Toluene	1.2		ug/kg	1.1	0.58	1
Ethylbenzene	0.90	J	ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	4.9		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	0.38	J	ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-28 Date Collected: 06/20/23 09:00

Client ID: 7-B1W (6.5-7) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	5.7		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	2.5		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	0.16	J	ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	0.46	J	ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.22	1
p/m-Xylene	0.64	J	ug/kg	2.1	0.60	1
o-Xylene	0.40	J	ug/kg	1.1	0.31	1
Xylenes, Total	1.0	J	ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	35		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	35	J	ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.1	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	65		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	8.9	J	ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.16	1
n-Butylbenzene	0.32	J	ug/kg	1.1	0.18	1
sec-Butylbenzene	0.25	J	ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.13	1
o-Chlorotoluene	0.38	J	ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	0.26	J	ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.28	J	ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-28 Date Collected: 06/20/23 09:00

Client ID: 7-B1W (6.5-7) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	0.56	J	ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	0.51	J	ug/kg	2.1	0.21	1
1,2,4-Trimethylbenzene	0.56	J	ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1
p-Diethylbenzene	0.56	J	ug/kg	2.1	0.19	1
p-Ethyltoluene	0.78	J	ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	106		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-29 D2 Date Collected: 06/20/23 08:30
Client ID: 7-B1WW (1-1.5) Date Received: 06/21/23
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/03/23 13:00
Analyst: JIC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	14000	6600	40
1,1-Dichloroethane	ND		ug/kg	2900	420	40
Chloroform	18000		ug/kg	4300	400	40
Carbon tetrachloride	ND		ug/kg	2900	670	40
1,2-Dichloropropane	ND		ug/kg	2900	360	40
Dibromochloromethane	ND		ug/kg	2900	400	40
1,1,2-Trichloroethane	ND		ug/kg	2900	770	40
Tetrachloroethene	950000	E	ug/kg	1400	570	40
Chlorobenzene	ND		ug/kg	1400	370	40
Trichlorofluoromethane	ND		ug/kg	12000	2000	40
1,2-Dichloroethane	ND		ug/kg	2900	740	40
1,1,1-Trichloroethane	2400		ug/kg	1400	480	40
Bromodichloromethane	ND		ug/kg	1400	320	40
trans-1,3-Dichloropropene	ND		ug/kg	2900	790	40
cis-1,3-Dichloropropene	ND		ug/kg	1400	460	40
1,3-Dichloropropene, Total	ND		ug/kg	1400	460	40
1,1-Dichloropropene	ND		ug/kg	1400	460	40
Bromoform	ND		ug/kg	12000	710	40
1,1,2,2-Tetrachloroethane	ND		ug/kg	1400	480	40
Benzene	ND		ug/kg	1400	480	40
Toluene	ND		ug/kg	2900	1600	40
Ethylbenzene	ND		ug/kg	2900	410	40
Chloromethane	ND		ug/kg	12000	2700	40
Bromomethane	ND		ug/kg	5800	1700	40
Vinyl chloride	ND		ug/kg	2900	970	40
Chloroethane	ND		ug/kg	5800	1300	40
1,1-Dichloroethene	ND		ug/kg	2900	690	40
trans-1,2-Dichloroethene	670	J	ug/kg	4300	400	40

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-29 D2 Date Collected: 06/20/23 08:30

Client ID: 7-B1WW (1-1.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	38000		ug/kg	1400	400	40
1,2-Dichlorobenzene	ND		ug/kg	5800	420	40
1,3-Dichlorobenzene	ND		ug/kg	5800	430	40
1,4-Dichlorobenzene	ND		ug/kg	5800	500	40
Methyl tert butyl ether	ND		ug/kg	5800	580	40
p/m-Xylene	ND		ug/kg	5800	1600	40
o-Xylene	ND		ug/kg	2900	840	40
Xylenes, Total	ND		ug/kg	2900	840	40
cis-1,2-Dichloroethene	110000		ug/kg	2900	510	40
1,2-Dichloroethene, Total	110000	J	ug/kg	2900	400	40
Dibromomethane	ND		ug/kg	5800	690	40
Styrene	ND		ug/kg	2900	570	40
Dichlorodifluoromethane	ND		ug/kg	29000	2600	40
Acetone	ND		ug/kg	29000	14000	40
Carbon disulfide	ND		ug/kg	29000	13000	40
2-Butanone	ND		ug/kg	29000	6400	40
Vinyl acetate	ND		ug/kg	29000	6200	40
4-Methyl-2-pentanone	ND		ug/kg	29000	3700	40
1,2,3-Trichloropropane	ND		ug/kg	5800	370	40
2-Hexanone	ND		ug/kg	29000	3400	40
Bromochloromethane	ND		ug/kg	5800	590	40
2,2-Dichloropropane	ND		ug/kg	5800	580	40
1,2-Dibromoethane	ND		ug/kg	2900	810	40
1,3-Dichloropropane	ND		ug/kg	5800	480	40
1,1,1,2-Tetrachloroethane	ND		ug/kg	1400	380	40
Bromobenzene	ND		ug/kg	5800	420	40
n-Butylbenzene	ND		ug/kg	2900	480	40
sec-Butylbenzene	ND		ug/kg	2900	420	40
tert-Butylbenzene	ND		ug/kg	5800	340	40
o-Chlorotoluene	ND		ug/kg	5800	550	40
p-Chlorotoluene	ND		ug/kg	5800	310	40
1,2-Dibromo-3-chloropropane	ND		ug/kg	8700	2900	40
Hexachlorobutadiene	ND		ug/kg	12000	490	40
Isopropylbenzene	ND		ug/kg	2900	320	40
p-Isopropyltoluene	ND		ug/kg	2900	320	40
Naphthalene	ND		ug/kg	12000	1900	40
Acrylonitrile	ND		ug/kg	12000	3300	40

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-29 D2 Date Collected: 06/20/23 08:30

Client ID: 7-B1WW (1-1.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	2900	500	40
1,2,3-Trichlorobenzene	ND		ug/kg	5800	930	40
1,2,4-Trichlorobenzene	ND		ug/kg	5800	790	40
1,3,5-Trimethylbenzene	ND		ug/kg	5800	560	40
1,2,4-Trimethylbenzene	ND		ug/kg	5800	970	40
1,4-Dioxane	ND		ug/kg	230000	100000	40
p-Diethylbenzene	ND		ug/kg	5800	510	40
p-Ethyltoluene	ND		ug/kg	5800	1100	40
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5800	550	40
Ethyl ether	ND		ug/kg	5800	990	40
trans-1,4-Dichloro-2-butene	ND		ug/kg	14000	4100	40

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	88		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-29 D
Client ID: 7-B1WW (1-1.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/01/23 20:33
Analyst: AJK
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	1200000		ug/kg	3600	1400	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-30
Client ID: 7-B1WW (4-4.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 08:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/03/23 12:22
Analyst: JIC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	340	150	1
1,1-Dichloroethane	ND		ug/kg	68	9.8	1
Chloroform	ND		ug/kg	100	9.4	1
Carbon tetrachloride	ND		ug/kg	68	16.	1
1,2-Dichloropropane	ND		ug/kg	68	8.4	1
Dibromochloromethane	ND		ug/kg	68	9.4	1
1,1,2-Trichloroethane	ND		ug/kg	68	18.	1
Tetrachloroethene	6900		ug/kg	34	13.	1
Chlorobenzene	ND		ug/kg	34	8.6	1
Trichlorofluoromethane	ND		ug/kg	270	47.	1
1,2-Dichloroethane	ND		ug/kg	68	17.	1
1,1,1-Trichloroethane	ND		ug/kg	34	11.	1
Bromodichloromethane	ND		ug/kg	34	7.4	1
trans-1,3-Dichloropropene	ND		ug/kg	68	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	34	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	34	11.	1
1,1-Dichloropropene	ND		ug/kg	34	11.	1
Bromoform	ND		ug/kg	270	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	11.	1
Benzene	87		ug/kg	34	11.	1
Toluene	180		ug/kg	68	37.	1
Ethylbenzene	120		ug/kg	68	9.5	1
Chloromethane	ND		ug/kg	270	63.	1
Bromomethane	ND		ug/kg	140	39.	1
Vinyl chloride	ND		ug/kg	68	23.	1
Chloroethane	ND		ug/kg	140	30.	1
1,1-Dichloroethene	ND		ug/kg	68	16.	1
trans-1,2-Dichloroethene	14	J	ug/kg	100	9.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-30 Date Collected: 06/20/23 08:35

Client ID: 7-B1WW (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	1100		ug/kg	34	9.2	1
1,2-Dichlorobenzene	680		ug/kg	140	9.7	1
1,3-Dichlorobenzene	19	J	ug/kg	140	10.	1
1,4-Dichlorobenzene	110	J	ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	120	J	ug/kg	140	38.	1
o-Xylene	74		ug/kg	68	20.	1
Xylenes, Total	190	J	ug/kg	68	20.	1
cis-1,2-Dichloroethene	840		ug/kg	68	12.	1
1,2-Dichloroethene, Total	850	J	ug/kg	68	9.2	1
Dibromomethane	ND		ug/kg	140	16.	1
Styrene	15	J	ug/kg	68	13.	1
Dichlorodifluoromethane	ND		ug/kg	680	62.	1
Acetone	ND		ug/kg	680	320	1
Carbon disulfide	ND		ug/kg	680	310	1
2-Butanone	ND		ug/kg	680	150	1
Vinyl acetate	ND		ug/kg	680	140	1
4-Methyl-2-pentanone	ND		ug/kg	680	86.	1
1,2,3-Trichloropropane	ND		ug/kg	140	8.6	1
2-Hexanone	ND		ug/kg	680	80.	1
Bromochloromethane	ND		ug/kg	140	14.	1
2,2-Dichloropropane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	68	19.	1
1,3-Dichloropropane	ND		ug/kg	140	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	8.9	1
Bromobenzene	ND		ug/kg	140	9.8	1
n-Butylbenzene	110		ug/kg	68	11.	1
sec-Butylbenzene	51	J	ug/kg	68	9.9	1
tert-Butylbenzene	ND		ug/kg	140	8.0	1
o-Chlorotoluene	140		ug/kg	140	13.	1
p-Chlorotoluene	ND		ug/kg	140	7.3	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	67.	1
Hexachlorobutadiene	ND		ug/kg	270	11.	1
Isopropylbenzene	37	J	ug/kg	68	7.4	1
p-Isopropyltoluene	69		ug/kg	68	7.4	1
Naphthalene	60	J	ug/kg	270	44.	1
Acrylonitrile	ND		ug/kg	270	78.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-30 Date Collected: 06/20/23 08:35

Client ID: 7-B1WW (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	120		ug/kg	68	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	22.	1
1,2,4-Trichlorobenzene	19	J	ug/kg	140	18.	1
1,3,5-Trimethylbenzene	74	J	ug/kg	140	13.	1
1,2,4-Trimethylbenzene	160		ug/kg	140	22.	1
1,4-Dioxane	ND		ug/kg	5400	2400	1
p-Diethylbenzene	91	J	ug/kg	140	12.	1
p-Ethyltoluene	ND		ug/kg	140	26.	1
1,2,4,5-Tetramethylbenzene	19	J	ug/kg	140	13.	1
Ethyl ether	ND		ug/kg	140	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	340	96.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	82		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-31 Date Collected: 06/20/23 08:40

Client ID: 7-B1WW (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 07/03/23 11:43

Analyst: JIC

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.5	3.4	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.2	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.34	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.40	1
Tetrachloroethene	170		ug/kg	0.75	0.29	1
Chlorobenzene	ND		ug/kg	0.75	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.0	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.39	1
1,1,1-Trichloroethane	ND		ug/kg	0.75	0.25	1
Bromodichloromethane	ND		ug/kg	0.75	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.41	1
cis-1,3-Dichloropropene	ND		ug/kg	0.75	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	0.75	0.24	1
1,1-Dichloropropene	ND		ug/kg	0.75	0.24	1
Bromoform	ND		ug/kg	6.0	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.75	0.25	1
Benzene	0.58	J	ug/kg	0.75	0.25	1
Toluene	1.6		ug/kg	1.5	0.82	1
Ethylbenzene	1.5		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	6.0	1.4	1
Bromomethane	ND		ug/kg	3.0	0.87	1
Vinyl chloride	ND		ug/kg	1.5	0.50	1
Chloroethane	ND		ug/kg	3.0	0.68	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.36	1
trans-1,2-Dichloroethene	0.50	J	ug/kg	2.2	0.21	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-31 Date Collected: 06/20/23 08:40

Client ID: 7-B1WW (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	26		ug/kg	0.75	0.21	1
1,2-Dichlorobenzene	2.1	J	ug/kg	3.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	1.4	J	ug/kg	3.0	0.84	1
o-Xylene	0.93	J	ug/kg	1.5	0.44	1
Xylenes, Total	2.3	J	ug/kg	1.5	0.44	1
cis-1,2-Dichloroethene	20		ug/kg	1.5	0.26	1
1,2-Dichloroethene, Total	21	J	ug/kg	1.5	0.21	1
Dibromomethane	ND		ug/kg	3.0	0.36	1
Styrene	ND		ug/kg	1.5	0.29	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	26		ug/kg	15	7.2	1
Carbon disulfide	ND		ug/kg	15	6.8	1
2-Butanone	14	J	ug/kg	15	3.3	1
Vinyl acetate	ND		ug/kg	15	3.2	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	0.19	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.31	1
2,2-Dichloropropane	ND		ug/kg	3.0	0.30	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.42	1
1,3-Dichloropropane	ND		ug/kg	3.0	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.75	0.20	1
Bromobenzene	ND		ug/kg	3.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.0	0.18	1
o-Chlorotoluene	0.79	J	ug/kg	3.0	0.29	1
p-Chlorotoluene	ND		ug/kg	3.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	1.5	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.25	1
Isopropylbenzene	0.32	J	ug/kg	1.5	0.16	1
p-Isopropyltoluene	0.38	J	ug/kg	1.5	0.16	1
Naphthalene	ND		ug/kg	6.0	0.98	1
Acrylonitrile	ND		ug/kg	6.0	1.7	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-31 Date Collected: 06/20/23 08:40

Client ID: 7-B1WW (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	0.76	J	ug/kg	1.5	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	0.48	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.41	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.50	1
1,4-Dioxane	ND		ug/kg	120	53.	1
p-Diethylbenzene	ND		ug/kg	3.0	0.27	1
p-Ethyltoluene	ND		ug/kg	3.0	0.58	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.0	0.29	1
Ethyl ether	ND		ug/kg	3.0	0.51	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.5	2.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	88		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-32
Client ID: 7-B1E (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 11:47
Analyst: LAC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	2.4	J	ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	8.9		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	1.2		ug/kg	0.53	0.18	1
Toluene	4.9		ug/kg	1.1	0.58	1
Ethylbenzene	0.94	J	ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	3.6		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	0.24	J	ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-32 Date Collected: 06/20/23 09:15

Client ID: 7-B1E (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	1.8		ug/kg	0.53	0.15	1
1,2-Dichlorobenzene	0.38	J	ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	0.27	J	ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	1.5	J	ug/kg	2.1	0.60	1
o-Xylene	0.58	J	ug/kg	1.1	0.31	1
Xylenes, Total	2.1	J	ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	18		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	18	J	ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	0.23	J	ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	110		ug/kg	11	5.1	1
Carbon disulfide	10	J	ug/kg	11	4.8	1
2-Butanone	16		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.14	1
2-Hexanone	ND		ug/kg	11	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	0.23	J	ug/kg	1.1	0.18	1
sec-Butylbenzene	0.17	J	ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	0.27	J	ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.39	J	ug/kg	1.1	0.12	1
Naphthalene	1.5	J	ug/kg	4.3	0.69	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-32 Date Collected: 06/20/23 09:15

Client ID: 7-B1E (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	0.27	J	ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	0.56	J	ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	1.3	J	ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	85	37.	1
p-Diethylbenzene	1.6	J	ug/kg	2.1	0.19	1
p-Ethyltoluene	0.81	J	ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	0.83	J	ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	111		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-33 Date Collected: 06/20/23 09:20

Client ID: 7-B1E (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 06/24/23 15:12

Analyst: LAC

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	350	160	1
1,1-Dichloroethane	ND		ug/kg	70	10.	1
Chloroform	840		ug/kg	100	9.8	1
Carbon tetrachloride	ND		ug/kg	70	16.	1
1,2-Dichloropropane	ND		ug/kg	70	8.7	1
Dibromochloromethane	ND		ug/kg	70	9.8	1
1,1,2-Trichloroethane	ND		ug/kg	70	19.	1
Tetrachloroethene	10000		ug/kg	35	14.	1
Chlorobenzene	ND		ug/kg	35	8.8	1
Trichlorofluoromethane	ND		ug/kg	280	48.	1
1,2-Dichloroethane	ND		ug/kg	70	18.	1
1,1,1-Trichloroethane	ND		ug/kg	35	12.	1
Bromodichloromethane	ND		ug/kg	35	7.6	1
trans-1,3-Dichloropropene	ND		ug/kg	70	19.	1
cis-1,3-Dichloropropene	ND		ug/kg	35	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	35	11.	1
1,1-Dichloropropene	ND		ug/kg	35	11.	1
Bromoform	ND		ug/kg	280	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	35	12.	1
Benzene	ND		ug/kg	35	12.	1
Toluene	ND		ug/kg	70	38.	1
Ethylbenzene	ND		ug/kg	70	9.8	1
Chloromethane	ND		ug/kg	280	65.	1
Bromomethane	ND		ug/kg	140	40.	1
Vinyl chloride	42	J	ug/kg	70	23.	1
Chloroethane	ND		ug/kg	140	32.	1
1,1-Dichloroethene	ND		ug/kg	70	17.	1
trans-1,2-Dichloroethene	74	J	ug/kg	100	9.6	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-33 Date Collected: 06/20/23 09:20

Client ID: 7-B1E (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	1900		ug/kg	35	9.6	1
1,2-Dichlorobenzene	11	J	ug/kg	140	10.	1
1,3-Dichlorobenzene	26	J	ug/kg	140	10.	1
1,4-Dichlorobenzene	ND		ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	ND		ug/kg	140	39.	1
o-Xylene	ND		ug/kg	70	20.	1
Xylenes, Total	ND		ug/kg	70	20.	1
cis-1,2-Dichloroethene	7100		ug/kg	70	12.	1
1,2-Dichloroethene, Total	7200	J	ug/kg	70	9.6	1
Dibromomethane	ND		ug/kg	140	17.	1
Styrene	ND		ug/kg	70	14.	1
Dichlorodifluoromethane	ND		ug/kg	700	64.	1
Acetone	ND		ug/kg	700	340	1
Carbon disulfide	ND		ug/kg	700	320	1
2-Butanone	ND		ug/kg	700	150	1
Vinyl acetate	ND		ug/kg	700	150	1
4-Methyl-2-pentanone	ND		ug/kg	700	89.	1
1,2,3-Trichloropropane	ND		ug/kg	140	8.8	1
2-Hexanone	ND		ug/kg	700	82.	1
Bromochloromethane	ND		ug/kg	140	14.	1
2,2-Dichloropropane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	70	19.	1
1,3-Dichloropropane	ND		ug/kg	140	12.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	35	9.2	1
Bromobenzene	ND		ug/kg	140	10.	1
n-Butylbenzene	ND		ug/kg	70	12.	1
sec-Butylbenzene	ND		ug/kg	70	10.	1
tert-Butylbenzene	ND		ug/kg	140	8.2	1
o-Chlorotoluene	ND		ug/kg	140	13.	1
p-Chlorotoluene	ND		ug/kg	140	7.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	210	70.	1
Hexachlorobutadiene	ND		ug/kg	280	12.	1
Isopropylbenzene	ND		ug/kg	70	7.6	1
p-Isopropyltoluene	ND		ug/kg	70	7.6	1
Naphthalene	ND		ug/kg	280	45.	1
Acrylonitrile	ND		ug/kg	280	80.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-33 Date Collected: 06/20/23 09:20

Client ID: 7-B1E (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	70	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	19.	1
1,3,5-Trimethylbenzene	ND		ug/kg	140	13.	1
1,2,4-Trimethylbenzene	ND		ug/kg	140	23.	1
1,4-Dioxane	ND		ug/kg	5600	2400	1
p-Diethylbenzene	ND		ug/kg	140	12.	1
p-Ethyltoluene	ND		ug/kg	140	27.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	140	13.	1
Ethyl ether	ND		ug/kg	140	24.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	350	99.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	107		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-34
Client ID: 7-B1E (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:25
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 15:35
Analyst: LAC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	300	140	1
1,1-Dichloroethane	ND		ug/kg	60	8.6	1
Chloroform	ND		ug/kg	89	8.3	1
Carbon tetrachloride	ND		ug/kg	60	14.	1
1,2-Dichloropropane	ND		ug/kg	60	7.4	1
Dibromochloromethane	ND		ug/kg	60	8.3	1
1,1,2-Trichloroethane	ND		ug/kg	60	16.	1
Tetrachloroethene	1900		ug/kg	30	12.	1
Chlorobenzene	ND		ug/kg	30	7.6	1
Trichlorofluoromethane	ND		ug/kg	240	41.	1
1,2-Dichloroethane	ND		ug/kg	60	15.	1
1,1,1-Trichloroethane	ND		ug/kg	30	9.9	1
Bromodichloromethane	ND		ug/kg	30	6.5	1
trans-1,3-Dichloropropene	ND		ug/kg	60	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	30	9.4	1
1,3-Dichloropropene, Total	ND		ug/kg	30	9.4	1
1,1-Dichloropropene	ND		ug/kg	30	9.5	1
Bromoform	ND		ug/kg	240	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	30	9.9	1
Benzene	ND		ug/kg	30	9.9	1
Toluene	ND		ug/kg	60	32.	1
Ethylbenzene	11	J	ug/kg	60	8.4	1
Chloromethane	ND		ug/kg	240	56.	1
Bromomethane	ND		ug/kg	120	35.	1
Vinyl chloride	160		ug/kg	60	20.	1
Chloroethane	ND		ug/kg	120	27.	1
1,1-Dichloroethene	ND		ug/kg	60	14.	1
trans-1,2-Dichloroethene	64	J	ug/kg	89	8.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-34 Date Collected: 06/20/23 09:25

Client ID: 7-B1E (5.5-6) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	290		ug/kg	30	8.2	1
1,2-Dichlorobenzene	4400		ug/kg	120	8.6	1
1,3-Dichlorobenzene	160		ug/kg	120	8.8	1
1,4-Dichlorobenzene	640		ug/kg	120	10.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	47	J	ug/kg	120	33.	1
o-Xylene	ND		ug/kg	60	17.	1
Xylenes, Total	47	J	ug/kg	60	17.	1
cis-1,2-Dichloroethene	4000		ug/kg	60	10.	1
1,2-Dichloroethene, Total	4100	J	ug/kg	60	8.2	1
Dibromomethane	ND		ug/kg	120	14.	1
Styrene	ND		ug/kg	60	12.	1
Dichlorodifluoromethane	ND		ug/kg	600	54.	1
Acetone	ND		ug/kg	600	290	1
Carbon disulfide	ND		ug/kg	600	270	1
2-Butanone	ND		ug/kg	600	130	1
Vinyl acetate	ND		ug/kg	600	130	1
4-Methyl-2-pentanone	ND		ug/kg	600	76.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.6	1
2-Hexanone	ND		ug/kg	600	70.	1
Bromochloromethane	ND		ug/kg	120	12.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	60	17.	1
1,3-Dichloropropane	ND		ug/kg	120	9.9	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	30	7.9	1
Bromobenzene	ND		ug/kg	120	8.6	1
n-Butylbenzene	700		ug/kg	60	9.9	1
sec-Butylbenzene	800		ug/kg	60	8.7	1
tert-Butylbenzene	240		ug/kg	120	7.0	1
o-Chlorotoluene	170		ug/kg	120	11.	1
p-Chlorotoluene	ND		ug/kg	120	6.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	59.	1
Hexachlorobutadiene	120	J	ug/kg	240	10.	1
Isopropylbenzene	40	J	ug/kg	60	6.5	1
p-Isopropyltoluene	1200		ug/kg	60	6.5	1
Naphthalene	120	J	ug/kg	240	39.	1
Acrylonitrile	ND		ug/kg	240	68.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-34 Date Collected: 06/20/23 09:25

Client ID: 7-B1E (5.5-6) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	270		ug/kg	60	10.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	19.	1
1,2,4-Trichlorobenzene	280		ug/kg	120	16.	1
1,3,5-Trimethylbenzene	630		ug/kg	120	11.	1
1,2,4-Trimethylbenzene	1800		ug/kg	120	20.	1
1,4-Dioxane	ND		ug/kg	4800	2100	1
p-Diethylbenzene	3400		ug/kg	120	10.	1
p-Ethyltoluene	640		ug/kg	120	23.	1
1,2,4,5-Tetramethylbenzene	880		ug/kg	120	11.	1
Ethyl ether	ND		ug/kg	120	20.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	300	84.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	**138**	Q	70-130
Dibromofluoromethane	121		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-35 Date Collected: 06/20/23 09:30
Client ID: 7-B1N (1.5-2) Date Received: 06/21/23
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 12:09
Analyst: LAC
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	4.0		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	0.65		ug/kg	0.48	0.16	1
Toluene	1.2		ug/kg	0.96	0.52	1
Ethylbenzene	0.83	J	ug/kg	0.96	0.14	1
Chloromethane	ND		ug/kg	3.8	0.90	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	3.5		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-35 Date Collected: 06/20/23 09:30

Client ID: 7-B1N (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.82		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	0.79	J	ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	0.22	J	ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	2.4		ug/kg	1.9	0.54	1
o-Xylene	1.6		ug/kg	0.96	0.28	1
Xylenes, Total	4.0		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	4.3		ug/kg	0.96	0.17	1
1,2-Dichloroethene, Total	4.3		ug/kg	0.96	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	0.52	J	ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	25		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	16		ug/kg	9.6	2.1	1
Vinyl acetate	ND		ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	0.53	J	ug/kg	0.96	0.16	1
sec-Butylbenzene	0.40	J	ug/kg	0.96	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	0.38	J	ug/kg	0.96	0.10	1
p-Isopropyltoluene	0.38	J	ug/kg	0.96	0.10	1
Naphthalene	2.3	J	ug/kg	3.8	0.63	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-35 Date Collected: 06/20/23 09:30

Client ID: 7-B1N (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	0.76	J	ug/kg	0.96	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	2.1		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	5.9		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	77	34.	1
p-Diethylbenzene	3.7		ug/kg	1.9	0.17	1
p-Ethyltoluene	4.1		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	1.3	J	ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	113		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-36
Client ID: 7-B1N (4-4.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 12:32
Analyst: LAC
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	1.0	J	ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	160		ug/kg	0.68	0.26	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.23	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.68	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.68	0.22	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.22	1
Benzene	ND		ug/kg	0.68	0.22	1
Toluene	ND		ug/kg	1.4	0.74	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.4	1.3	1
Bromomethane	ND		ug/kg	2.7	0.79	1
Vinyl chloride	ND		ug/kg	1.4	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-36 Date Collected: 06/20/23 09:35

Client ID: 7-B1N (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	7.9		ug/kg	0.68	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.4	0.39	1
Xylenes, Total	ND		ug/kg	1.4	0.39	1
cis-1,2-Dichloroethene	3.8		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	3.8		ug/kg	1.4	0.18	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.4	0.26	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	38		ug/kg	14	6.5	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	20		ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.68	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.4	0.88	1
Acrylonitrile	ND		ug/kg	5.4	1.6	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-36 Date Collected: 06/20/23 09:35

Client ID: 7-B1N (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
1,4-Dioxane	ND		ug/kg	110	48.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-40
Client ID: 7-B1S (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:20
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 12:55
Analyst: LAC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	28		ug/kg	0.55	0.22	1
Chlorobenzene	0.18	J	ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	0.76		ug/kg	0.55	0.18	1
Toluene	9.4		ug/kg	1.1	0.60	1
Ethylbenzene	2.0		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	0.55	J	ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	0.50	J	ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-40 Date Collected: 06/20/23 10:20

Client ID: 7-B1S (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	2.4		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	1.1	J	ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	0.52	J	ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	3.3		ug/kg	2.2	0.62	1
o-Xylene	2.0		ug/kg	1.1	0.32	1
Xylenes, Total	5.3		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	27		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	28	J	ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	1.2		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	62		ug/kg	11	5.3	1
Carbon disulfide	6.2	J	ug/kg	11	5.0	1
2-Butanone	9.7	J	ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	3.4	J	ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	0.48	J	ug/kg	1.1	0.18	1
sec-Butylbenzene	0.51	J	ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	0.68	J	ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.76	J	ug/kg	1.1	0.12	1
Naphthalene	25		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-40 Date Collected: 06/20/23 10:20

Client ID: 7-B1S (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	1.0	J	ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	3.2		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	9.3		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	88	39.	1
p-Diethylbenzene	4.7		ug/kg	2.2	0.20	1
p-Ethyltoluene	4.9		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	2.2		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	106		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-41 Date Collected: 06/20/23 10:25
Client ID: 7-B1S (4-4.5) Date Received: 06/21/23
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 15:58
Analyst: LAC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	300	140	1
1,1-Dichloroethane	ND		ug/kg	59	8.6	1
Chloroform	70	J	ug/kg	89	8.3	1
Carbon tetrachloride	ND		ug/kg	59	14.	1
1,2-Dichloropropane	ND		ug/kg	59	7.4	1
Dibromochloromethane	ND		ug/kg	59	8.3	1
1,1,2-Trichloroethane	ND		ug/kg	59	16.	1
Tetrachloroethene	5800		ug/kg	30	12.	1
Chlorobenzene	ND		ug/kg	30	7.6	1
Trichlorofluoromethane	ND		ug/kg	240	41.	1
1,2-Dichloroethane	ND		ug/kg	59	15.	1
1,1,1-Trichloroethane	ND		ug/kg	30	9.9	1
Bromodichloromethane	ND		ug/kg	30	6.5	1
trans-1,3-Dichloropropene	ND		ug/kg	59	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	30	9.4	1
1,3-Dichloropropene, Total	ND		ug/kg	30	9.4	1
1,1-Dichloropropene	ND		ug/kg	30	9.4	1
Bromoform	ND		ug/kg	240	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	30	9.9	1
Benzene	26	J	ug/kg	30	9.9	1
Toluene	ND		ug/kg	59	32.	1
Ethylbenzene	ND		ug/kg	59	8.4	1
Chloromethane	ND		ug/kg	240	55.	1
Bromomethane	ND		ug/kg	120	34.	1
Vinyl chloride	ND		ug/kg	59	20.	1
Chloroethane	ND		ug/kg	120	27.	1
1,1-Dichloroethene	ND		ug/kg	59	14.	1
trans-1,2-Dichloroethene	ND		ug/kg	89	8.1	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-41 Date Collected: 06/20/23 10:25

Client ID: 7-B1S (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	480		ug/kg	30	8.1	1
1,2-Dichlorobenzene	73	J	ug/kg	120	8.6	1
1,3-Dichlorobenzene	ND		ug/kg	120	8.8	1
1,4-Dichlorobenzene	20	J	ug/kg	120	10.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	ND		ug/kg	120	33.	1
o-Xylene	ND		ug/kg	59	17.	1
Xylenes, Total	ND		ug/kg	59	17.	1
cis-1,2-Dichloroethene	680		ug/kg	59	10.	1
1,2-Dichloroethene, Total	680		ug/kg	59	8.1	1
Dibromomethane	ND		ug/kg	120	14.	1
Styrene	ND		ug/kg	59	12.	1
Dichlorodifluoromethane	ND		ug/kg	590	54.	1
Acetone	ND		ug/kg	590	290	1
Carbon disulfide	ND		ug/kg	590	270	1
2-Butanone	ND		ug/kg	590	130	1
Vinyl acetate	ND		ug/kg	590	130	1
4-Methyl-2-pentanone	ND		ug/kg	590	76.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.6	1
2-Hexanone	ND		ug/kg	590	70.	1
Bromochloromethane	ND		ug/kg	120	12.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	59	16.	1
1,3-Dichloropropane	ND		ug/kg	120	9.9	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	30	7.8	1
Bromobenzene	ND		ug/kg	120	8.6	1
n-Butylbenzene	ND		ug/kg	59	9.9	1
sec-Butylbenzene	ND		ug/kg	59	8.7	1
tert-Butylbenzene	ND		ug/kg	120	7.0	1
o-Chlorotoluene	ND		ug/kg	120	11.	1
p-Chlorotoluene	ND		ug/kg	120	6.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	59.	1
Hexachlorobutadiene	ND		ug/kg	240	10.	1
Isopropylbenzene	ND		ug/kg	59	6.5	1
p-Isopropyltoluene	ND		ug/kg	59	6.5	1
Naphthalene	ND		ug/kg	240	39.	1
Acrylonitrile	ND		ug/kg	240	68.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-41 Date Collected: 06/20/23 10:25

Client ID: 7-B1S (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	59	10.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	16.	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	20.	1
1,4-Dioxane	ND		ug/kg	4800	2100	1
p-Diethylbenzene	ND		ug/kg	120	10.	1
p-Ethyltoluene	ND		ug/kg	120	23.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	120	11.	1
Ethyl ether	ND		ug/kg	120	20.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	300	84.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	107		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-42
Client ID: 7-B1S (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 16:21
Analyst: LAC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	330	150	1
1,1-Dichloroethane	ND		ug/kg	66	9.6	1
Chloroform	ND		ug/kg	100	9.3	1
Carbon tetrachloride	ND		ug/kg	66	15.	1
1,2-Dichloropropane	ND		ug/kg	66	8.3	1
Dibromochloromethane	ND		ug/kg	66	9.3	1
1,1,2-Trichloroethane	ND		ug/kg	66	18.	1
Tetrachloroethene	640		ug/kg	33	13.	1
Chlorobenzene	9.8	J	ug/kg	33	8.4	1
Trichlorofluoromethane	ND		ug/kg	260	46.	1
1,2-Dichloroethane	ND		ug/kg	66	17.	1
1,1,1-Trichloroethane	ND		ug/kg	33	11.	1
Bromodichloromethane	ND		ug/kg	33	7.2	1
trans-1,3-Dichloropropene	ND		ug/kg	66	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	33	10.	1
1,3-Dichloropropene, Total	ND		ug/kg	33	10.	1
1,1-Dichloropropene	ND		ug/kg	33	10.	1
Bromoform	ND		ug/kg	260	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	33	11.	1
Benzene	ND		ug/kg	33	11.	1
Toluene	ND		ug/kg	66	36.	1
Ethylbenzene	11	J	ug/kg	66	9.4	1
Chloromethane	ND		ug/kg	260	62.	1
Bromomethane	ND		ug/kg	130	38.	1
Vinyl chloride	370		ug/kg	66	22.	1
Chloroethane	ND		ug/kg	130	30.	1
1,1-Dichloroethene	ND		ug/kg	66	16.	1
trans-1,2-Dichloroethene	170		ug/kg	100	9.1	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-42 Date Collected: 06/20/23 10:30

Client ID: 7-B1S (5.5-6) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	240		ug/kg	33	9.1	1
1,2-Dichlorobenzene	620		ug/kg	130	9.6	1
1,3-Dichlorobenzene	ND		ug/kg	130	9.8	1
1,4-Dichlorobenzene	23	J	ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	ND		ug/kg	130	37.	1
o-Xylene	ND		ug/kg	66	19.	1
Xylenes, Total	ND		ug/kg	66	19.	1
cis-1,2-Dichloroethene	3300		ug/kg	66	12.	1
1,2-Dichloroethene, Total	3500		ug/kg	66	9.1	1
Dibromomethane	ND		ug/kg	130	16.	1
Styrene	ND		ug/kg	66	13.	1
Dichlorodifluoromethane	ND		ug/kg	660	61.	1
Acetone	ND		ug/kg	660	320	1
Carbon disulfide	ND		ug/kg	660	300	1
2-Butanone	ND		ug/kg	660	150	1
Vinyl acetate	ND		ug/kg	660	140	1
4-Methyl-2-pentanone	ND		ug/kg	660	85.	1
1,2,3-Trichloropropane	ND		ug/kg	130	8.4	1
2-Hexanone	ND		ug/kg	660	78.	1
Bromochloromethane	ND		ug/kg	130	14.	1
2,2-Dichloropropane	ND		ug/kg	130	13.	1
1,2-Dibromoethane	ND		ug/kg	66	18.	1
1,3-Dichloropropane	ND		ug/kg	130	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	33	8.8	1
Bromobenzene	ND		ug/kg	130	9.6	1
n-Butylbenzene	25	J	ug/kg	66	11.	1
sec-Butylbenzene	71		ug/kg	66	9.7	1
tert-Butylbenzene	16	J	ug/kg	130	7.8	1
o-Chlorotoluene	65	J	ug/kg	130	13.	1
p-Chlorotoluene	ND		ug/kg	130	7.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	66.	1
Hexachlorobutadiene	ND		ug/kg	260	11.	1
Isopropylbenzene	ND		ug/kg	66	7.2	1
p-Isopropyltoluene	16	J	ug/kg	66	7.2	1
Naphthalene	50	J	ug/kg	260	43.	1
Acrylonitrile	ND		ug/kg	260	76.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-42 Date Collected: 06/20/23 10:30

Client ID: 7-B1S (5.5-6) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	13	J	ug/kg	66	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	18.	1
1,3,5-Trimethylbenzene	58	J	ug/kg	130	13.	1
1,2,4-Trimethylbenzene	61	J	ug/kg	130	22.	1
1,4-Dioxane	ND		ug/kg	5300	2300	1
p-Diethylbenzene	290		ug/kg	130	12.	1
p-Ethyltoluene	31	J	ug/kg	130	25.	1
1,2,4,5-Tetramethylbenzene	120	J	ug/kg	130	13.	1
Ethyl ether	ND		ug/kg	130	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	330	94.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**132**	Q	70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	124		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-42 R
Client ID: 7-B1S (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/27/23 20:34
Analyst: MKS
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	330	150	1
1,1-Dichloroethane	ND		ug/kg	66	9.6	1
Chloroform	ND		ug/kg	100	9.3	1
Carbon tetrachloride	ND		ug/kg	66	15.	1
1,2-Dichloropropane	ND		ug/kg	66	8.3	1
Dibromochloromethane	ND		ug/kg	66	9.3	1
1,1,2-Trichloroethane	ND		ug/kg	66	18.	1
Tetrachloroethene	1400		ug/kg	33	13.	1
Chlorobenzene	ND		ug/kg	33	8.4	1
Trichlorofluoromethane	ND		ug/kg	260	46.	1
1,2-Dichloroethane	ND		ug/kg	66	17.	1
1,1,1-Trichloroethane	ND		ug/kg	33	11.	1
Bromodichloromethane	ND		ug/kg	33	7.2	1
trans-1,3-Dichloropropene	ND		ug/kg	66	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	33	10.	1
1,3-Dichloropropene, Total	ND		ug/kg	33	10.	1
1,1-Dichloropropene	ND		ug/kg	33	10.	1
Bromoform	ND		ug/kg	260	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	33	11.	1
Benzene	26	J	ug/kg	33	11.	1
Toluene	49	J	ug/kg	66	36.	1
Ethylbenzene	12	J	ug/kg	66	9.4	1
Chloromethane	ND		ug/kg	260	62.	1
Bromomethane	ND		ug/kg	130	38.	1
Vinyl chloride	750		ug/kg	66	22.	1
Chloroethane	ND		ug/kg	130	30.	1
1,1-Dichloroethene	ND		ug/kg	66	16.	1
trans-1,2-Dichloroethene	330		ug/kg	100	9.1	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-42 R
Client ID: 7-B1S (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	600		ug/kg	33	9.1	1
1,2-Dichlorobenzene	680		ug/kg	130	9.6	1
1,3-Dichlorobenzene	12	J	ug/kg	130	9.8	1
1,4-Dichlorobenzene	33	J	ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	ND		ug/kg	130	37.	1
o-Xylene	ND		ug/kg	66	19.	1
Xylenes, Total	ND		ug/kg	66	19.	1
cis-1,2-Dichloroethene	10000		ug/kg	66	12.	1
1,2-Dichloroethene, Total	10000		ug/kg	66	9.1	1
Dibromomethane	ND		ug/kg	130	16.	1
Styrene	ND		ug/kg	66	13.	1
Dichlorodifluoromethane	ND		ug/kg	660	61.	1
Acetone	ND		ug/kg	660	320	1
Carbon disulfide	ND		ug/kg	660	300	1
2-Butanone	ND		ug/kg	660	150	1
Vinyl acetate	ND		ug/kg	660	140	1
4-Methyl-2-pentanone	ND		ug/kg	660	85.	1
1,2,3-Trichloropropane	ND		ug/kg	130	8.4	1
2-Hexanone	ND		ug/kg	660	78.	1
Bromochloromethane	ND		ug/kg	130	14.	1
2,2-Dichloropropane	ND		ug/kg	130	13.	1
1,2-Dibromoethane	ND		ug/kg	66	18.	1
1,3-Dichloropropane	ND		ug/kg	130	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	33	8.8	1
Bromobenzene	ND		ug/kg	130	9.6	1
n-Butylbenzene	26	J	ug/kg	66	11.	1
sec-Butylbenzene	66		ug/kg	66	9.7	1
tert-Butylbenzene	15	J	ug/kg	130	7.8	1
o-Chlorotoluene	65	J	ug/kg	130	13.	1
p-Chlorotoluene	ND		ug/kg	130	7.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	66.	1
Hexachlorobutadiene	ND		ug/kg	260	11.	1
Isopropylbenzene	ND		ug/kg	66	7.2	1
p-Isopropyltoluene	21	J	ug/kg	66	7.2	1
Naphthalene	60	J	ug/kg	260	43.	1
Acrylonitrile	ND		ug/kg	260	76.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-42 R Date Collected: 06/20/23 10:30

Client ID: 7-B1S (5.5-6) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	17	J	ug/kg	66	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	18.	1
1,3,5-Trimethylbenzene	65	J	ug/kg	130	13.	1
1,2,4-Trimethylbenzene	80	J	ug/kg	130	22.	1
1,4-Dioxane	ND		ug/kg	5300	2300	1
p-Diethylbenzene	ND		ug/kg	130	12.	1
p-Ethyltoluene	43	J	ug/kg	130	25.	1
1,2,4,5-Tetramethylbenzene	120	J	ug/kg	130	13.	1
Ethyl ether	ND		ug/kg	130	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	330	94.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**140**	Q	70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	**134**	Q	70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-44
Client ID: 7-B1SS (5-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 11:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/03/23 10:26
Analyst: JIC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	0.17	J	ug/kg	1.0	0.14	1
Chloroform	1.7		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	38		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	3.5		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	2.8		ug/kg	1.5	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-44 Date Collected: 06/20/23 11:40

Client ID: 7-B1SS (5-5.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	19		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	2.4		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	0.78	J	ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	1.2	J	ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	23		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	26		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	9.4	J	ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	3.0	J	ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	0.38	J	ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	0.92	J	ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-44 Date Collected: 06/20/23 11:40

Client ID: 7-B1SS (5-5.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	80	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	88		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-45
Client ID: 10-B6W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 12:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 13:18
Analyst: LAC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	15		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	0.49	J	ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.0	0.58	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-45 Date Collected: 06/20/23 12:00

Client ID: 10-B6W (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	1.1		ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.31	1
Xylenes, Total	ND		ug/kg	1.0	0.31	1
cis-1,2-Dichloroethene	2.1		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	2.1		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.21	1
Dichlorodifluoromethane	ND		ug/kg	10	0.97	1
Acetone	60		ug/kg	10	5.1	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	13		ug/kg	10	2.4	1
Vinyl acetate	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.12	1
p-Isopropyltoluene	0.13	J	ug/kg	1.0	0.12	1
Naphthalene	0.88	J	ug/kg	4.2	0.69	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-45 Date Collected: 06/20/23 12:00

Client ID: 10-B6W (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	0.41	J	ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	85	37.	1
p-Diethylbenzene	2.1		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	0.78	J	ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	114		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-46
Client ID: 10-B6W (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 12:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 16:44
Analyst: LAC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	270	120	1
1,1-Dichloroethane	ND		ug/kg	55	7.9	1
Chloroform	24	J	ug/kg	82	7.7	1
Carbon tetrachloride	ND		ug/kg	55	12.	1
1,2-Dichloropropane	ND		ug/kg	55	6.8	1
Dibromochloromethane	ND		ug/kg	55	7.7	1
1,1,2-Trichloroethane	ND		ug/kg	55	15.	1
Tetrachloroethene	13000		ug/kg	27	11.	1
Chlorobenzene	ND		ug/kg	27	7.0	1
Trichlorofluoromethane	ND		ug/kg	220	38.	1
1,2-Dichloroethane	ND		ug/kg	55	14.	1
1,1,1-Trichloroethane	ND		ug/kg	27	9.1	1
Bromodichloromethane	ND		ug/kg	27	6.0	1
trans-1,3-Dichloropropene	ND		ug/kg	55	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	27	8.6	1
1,3-Dichloropropene, Total	ND		ug/kg	27	8.6	1
1,1-Dichloropropene	ND		ug/kg	27	8.7	1
Bromoform	ND		ug/kg	220	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	27	9.1	1
Benzene	ND		ug/kg	27	9.1	1
Toluene	ND		ug/kg	55	30.	1
Ethylbenzene	ND		ug/kg	55	7.7	1
Chloromethane	ND		ug/kg	220	51.	1
Bromomethane	ND		ug/kg	110	32.	1
Vinyl chloride	ND		ug/kg	55	18.	1
Chloroethane	ND		ug/kg	110	25.	1
1,1-Dichloroethene	ND		ug/kg	55	13.	1
trans-1,2-Dichloroethene	ND		ug/kg	82	7.5	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-46 Date Collected: 06/20/23 12:05

Client ID: 10-B6W (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	740		ug/kg	27	7.5	1
1,2-Dichlorobenzene	ND		ug/kg	110	7.9	1
1,3-Dichlorobenzene	ND		ug/kg	110	8.1	1
1,4-Dichlorobenzene	ND		ug/kg	110	9.4	1
Methyl tert butyl ether	ND		ug/kg	110	11.	1
p/m-Xylene	ND		ug/kg	110	31.	1
o-Xylene	ND		ug/kg	55	16.	1
Xylenes, Total	ND		ug/kg	55	16.	1
cis-1,2-Dichloroethene	310		ug/kg	55	9.6	1
1,2-Dichloroethene, Total	310		ug/kg	55	7.5	1
Dibromomethane	ND		ug/kg	110	13.	1
Styrene	ND		ug/kg	55	11.	1
Dichlorodifluoromethane	ND		ug/kg	550	50.	1
Acetone	ND		ug/kg	550	260	1
Carbon disulfide	ND		ug/kg	550	250	1
2-Butanone	ND		ug/kg	550	120	1
Vinyl acetate	ND		ug/kg	550	120	1
4-Methyl-2-pentanone	ND		ug/kg	550	70.	1
1,2,3-Trichloropropane	ND		ug/kg	110	7.0	1
2-Hexanone	ND		ug/kg	550	64.	1
Bromochloromethane	ND		ug/kg	110	11.	1
2,2-Dichloropropane	ND		ug/kg	110	11.	1
1,2-Dibromoethane	ND		ug/kg	55	15.	1
1,3-Dichloropropane	ND		ug/kg	110	9.1	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	27	7.2	1
Bromobenzene	ND		ug/kg	110	7.9	1
n-Butylbenzene	ND		ug/kg	55	9.1	1
sec-Butylbenzene	ND		ug/kg	55	8.0	1
tert-Butylbenzene	ND		ug/kg	110	6.4	1
o-Chlorotoluene	ND		ug/kg	110	10.	1
p-Chlorotoluene	ND		ug/kg	110	5.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	55.	1
Hexachlorobutadiene	ND		ug/kg	220	9.2	1
Isopropylbenzene	ND		ug/kg	55	6.0	1
p-Isopropyltoluene	ND		ug/kg	55	6.0	1
Naphthalene	210	J	ug/kg	220	36.	1
Acrylonitrile	ND		ug/kg	220	63.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-46 Date Collected: 06/20/23 12:05

Client ID: 10-B6W (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	55	9.4	1
1,2,3-Trichlorobenzene	ND		ug/kg	110	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	15.	1
1,3,5-Trimethylbenzene	ND		ug/kg	110	10.	1
1,2,4-Trimethylbenzene	ND		ug/kg	110	18.	1
1,4-Dioxane	ND		ug/kg	4400	1900	1
p-Diethylbenzene	ND		ug/kg	110	9.7	1
p-Ethyltoluene	ND		ug/kg	110	21.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	110	10.	1
Ethyl ether	ND		ug/kg	110	19.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	270	78.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-47
Client ID: 10-B6W (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 12:10
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 13:41
Analyst: LAC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.3	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.86	0.12	1
Chloroform	0.18	J	ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.86	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.86	0.11	1
Dibromochloromethane	ND		ug/kg	0.86	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.86	0.23	1
Tetrachloroethene	66		ug/kg	0.43	0.17	1
Chlorobenzene	ND		ug/kg	0.43	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.60	1
1,2-Dichloroethane	ND		ug/kg	0.86	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.43	0.14	1
Bromodichloromethane	ND		ug/kg	0.43	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.86	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.43	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.43	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.43	0.14	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.43	0.14	1
Benzene	ND		ug/kg	0.43	0.14	1
Toluene	ND		ug/kg	0.86	0.46	1
Ethylbenzene	ND		ug/kg	0.86	0.12	1
Chloromethane	ND		ug/kg	3.4	0.80	1
Bromomethane	ND		ug/kg	1.7	0.50	1
Vinyl chloride	51		ug/kg	0.86	0.29	1
Chloroethane	ND		ug/kg	1.7	0.39	1
1,1-Dichloroethene	ND		ug/kg	0.86	0.20	1
trans-1,2-Dichloroethene	5.2		ug/kg	1.3	0.12	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-47 Date Collected: 06/20/23 12:10

Client ID: 10-B6W (7.5-8) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	14		ug/kg	0.43	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.48	1
o-Xylene	ND		ug/kg	0.86	0.25	1
Xylenes, Total	ND		ug/kg	0.86	0.25	1
cis-1,2-Dichloroethene	54		ug/kg	0.86	0.15	1
1,2-Dichloroethene, Total	59		ug/kg	0.86	0.12	1
Dibromomethane	ND		ug/kg	1.7	0.20	1
Styrene	ND		ug/kg	0.86	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.6	0.78	1
Acetone	11		ug/kg	8.6	4.1	1
Carbon disulfide	ND		ug/kg	8.6	3.9	1
2-Butanone	3.1	J	ug/kg	8.6	1.9	1
Vinyl acetate	ND		ug/kg	8.6	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.6	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.6	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.86	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.43	0.11	1
Bromobenzene	ND		ug/kg	1.7	0.12	1
n-Butylbenzene	ND		ug/kg	0.86	0.14	1
sec-Butylbenzene	ND		ug/kg	0.86	0.12	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.86	1
Hexachlorobutadiene	ND		ug/kg	3.4	0.14	1
Isopropylbenzene	ND		ug/kg	0.86	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.86	0.09	1
Naphthalene	ND		ug/kg	3.4	0.56	1
Acrylonitrile	ND		ug/kg	3.4	0.99	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-47 Date Collected: 06/20/23 12:10

Client ID: 10-B6W (7.5-8) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.86	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.29	1
1,4-Dioxane	ND		ug/kg	69	30.	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.33	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.16	1
Ethyl ether	ND		ug/kg	1.7	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.3	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	111		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-49
Client ID: 10-B6WW (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 13:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/03/23 09:48
Analyst: JIC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.3	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.86	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.86	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.86	0.11	1
Dibromochloromethane	ND		ug/kg	0.86	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.86	0.23	1
Tetrachloroethene	0.63		ug/kg	0.43	0.17	1
Chlorobenzene	ND		ug/kg	0.43	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.60	1
1,2-Dichloroethane	ND		ug/kg	0.86	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.43	0.14	1
Bromodichloromethane	ND		ug/kg	0.43	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.86	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.43	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.43	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.43	0.14	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.43	0.14	1
Benzene	ND		ug/kg	0.43	0.14	1
Toluene	ND		ug/kg	0.86	0.47	1
Ethylbenzene	ND		ug/kg	0.86	0.12	1
Chloromethane	ND		ug/kg	3.4	0.80	1
Bromomethane	ND		ug/kg	1.7	0.50	1
Vinyl chloride	1.7		ug/kg	0.86	0.29	1
Chloroethane	ND		ug/kg	1.7	0.39	1
1,1-Dichloroethene	ND		ug/kg	0.86	0.20	1
trans-1,2-Dichloroethene	0.29	J	ug/kg	1.3	0.12	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-49 Date Collected: 06/20/23 13:05

Client ID: 10-B6WW (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.30	J	ug/kg	0.43	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.48	1
o-Xylene	ND		ug/kg	0.86	0.25	1
Xylenes, Total	ND		ug/kg	0.86	0.25	1
cis-1,2-Dichloroethene	4.8		ug/kg	0.86	0.15	1
1,2-Dichloroethene, Total	5.1	J	ug/kg	0.86	0.12	1
Dibromomethane	ND		ug/kg	1.7	0.20	1
Styrene	ND		ug/kg	0.86	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.6	0.78	1
Acetone	32		ug/kg	8.6	4.1	1
Carbon disulfide	ND		ug/kg	8.6	3.9	1
2-Butanone	8.6		ug/kg	8.6	1.9	1
Vinyl acetate	ND		ug/kg	8.6	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.6	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.6	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.86	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.43	0.11	1
Bromobenzene	ND		ug/kg	1.7	0.12	1
n-Butylbenzene	ND		ug/kg	0.86	0.14	1
sec-Butylbenzene	ND		ug/kg	0.86	0.12	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.86	1
Hexachlorobutadiene	ND		ug/kg	3.4	0.14	1
Isopropylbenzene	ND		ug/kg	0.86	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.86	0.09	1
Naphthalene	ND		ug/kg	3.4	0.56	1
Acrylonitrile	ND		ug/kg	3.4	0.99	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-49 Date Collected: 06/20/23 13:05

Client ID: 10-B6WW (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.86	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.29	1
1,4-Dioxane	ND		ug/kg	69	30.	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.33	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.16	1
Ethyl ether	ND		ug/kg	1.7	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.3	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	89		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-50
Client ID: 10-B6WW (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 13:10
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/01/23 23:16
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.88	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.88	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.88	0.11	1
Dibromochloromethane	ND		ug/kg	0.88	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.88	0.23	1
Tetrachloroethene	ND		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.61	1
1,2-Dichloroethane	ND		ug/kg	0.88	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.15	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.44	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.5	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.14	1
Benzene	0.16	J	ug/kg	0.44	0.14	1
Toluene	ND		ug/kg	0.88	0.48	1
Ethylbenzene	ND		ug/kg	0.88	0.12	1
Chloromethane	ND		ug/kg	3.5	0.82	1
Bromomethane	ND		ug/kg	1.8	0.51	1
Vinyl chloride	ND		ug/kg	0.88	0.29	1
Chloroethane	ND		ug/kg	1.8	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.88	0.21	1
trans-1,2-Dichloroethene	0.26	J	ug/kg	1.3	0.12	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-50 Date Collected: 06/20/23 13:10

Client ID: 10-B6WW (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.49	1
o-Xylene	ND		ug/kg	0.88	0.25	1
Xylenes, Total	ND		ug/kg	0.88	0.25	1
cis-1,2-Dichloroethene	0.22	J	ug/kg	0.88	0.15	1
1,2-Dichloroethene, Total	0.48	J	ug/kg	0.88	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.21	1
Styrene	ND		ug/kg	0.88	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.8	0.80	1
Acetone	23		ug/kg	8.8	4.2	1
Carbon disulfide	ND		ug/kg	8.8	4.0	1
2-Butanone	8.8		ug/kg	8.8	1.9	1
Vinyl acetate	ND		ug/kg	8.8	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.8	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.11	1
2-Hexanone	ND		ug/kg	8.8	1.0	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.88	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.88	0.15	1
sec-Butylbenzene	ND		ug/kg	0.88	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.10	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.87	1
Hexachlorobutadiene	ND		ug/kg	3.5	0.15	1
Isopropylbenzene	ND		ug/kg	0.88	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.88	0.10	1
Naphthalene	ND		ug/kg	3.5	0.57	1
Acrylonitrile	ND		ug/kg	3.5	1.0	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-50 Date Collected: 06/20/23 13:10

Client ID: 10-B6WW (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.88	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.29	1
1,4-Dioxane	ND		ug/kg	70	31.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.34	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.4	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-51
Client ID: 10-B6N (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 16:16
Analyst: JIC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	1.6	J	ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	770	E	ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	ND		ug/kg	0.56	0.18	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-51 Date Collected: 06/20/23 13:30

Client ID: 10-B6N (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	48		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	9.3		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	9.3		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	10	J	ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-51 Date Collected: 06/20/23 13:30

Client ID: 10-B6N (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	89	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-51
Client ID: 10-B6N (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/28/23 09:46
Analyst: MKS
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	340	150	1
1,1-Dichloroethane	ND		ug/kg	68	9.8	1
Chloroform	ND		ug/kg	100	9.5	1
Carbon tetrachloride	ND		ug/kg	68	16.	1
1,2-Dichloropropane	ND		ug/kg	68	8.4	1
Dibromochloromethane	ND		ug/kg	68	9.5	1
1,1,2-Trichloroethane	ND		ug/kg	68	18.	1
Tetrachloroethene	290		ug/kg	34	13.	1
Chlorobenzene	ND		ug/kg	34	8.6	1
Trichlorofluoromethane	ND		ug/kg	270	47.	1
1,2-Dichloroethane	ND		ug/kg	68	17.	1
1,1,1-Trichloroethane	ND		ug/kg	34	11.	1
Bromodichloromethane	ND		ug/kg	34	7.4	1
trans-1,3-Dichloropropene	ND		ug/kg	68	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	34	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	34	11.	1
1,1-Dichloropropene	ND		ug/kg	34	11.	1
Bromoform	ND		ug/kg	270	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	11.	1
Benzene	ND		ug/kg	34	11.	1
Toluene	ND		ug/kg	68	37.	1
Ethylbenzene	ND		ug/kg	68	9.5	1
Chloromethane	ND		ug/kg	270	63.	1
Bromomethane	ND		ug/kg	140	39.	1
Vinyl chloride	ND		ug/kg	68	23.	1
Chloroethane	ND		ug/kg	140	30.	1
1,1-Dichloroethene	ND		ug/kg	68	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	9.3	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-51 Date Collected: 06/20/23 13:30

Client ID: 10-B6N (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	30	J	ug/kg	34	9.3	1
1,2-Dichlorobenzene	ND		ug/kg	140	9.7	1
1,3-Dichlorobenzene	ND		ug/kg	140	10.	1
1,4-Dichlorobenzene	ND		ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	ND		ug/kg	140	38.	1
o-Xylene	ND		ug/kg	68	20.	1
Xylenes, Total	ND		ug/kg	68	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	68	12.	1
1,2-Dichloroethene, Total	ND		ug/kg	68	9.3	1
Dibromomethane	ND		ug/kg	140	16.	1
Styrene	ND		ug/kg	68	13.	1
Dichlorodifluoromethane	ND		ug/kg	680	62.	1
Acetone	ND		ug/kg	680	320	1
Carbon disulfide	ND		ug/kg	680	310	1
2-Butanone	ND		ug/kg	680	150	1
Vinyl acetate	ND		ug/kg	680	140	1
4-Methyl-2-pentanone	ND		ug/kg	680	87.	1
1,2,3-Trichloropropane	ND		ug/kg	140	8.6	1
2-Hexanone	ND		ug/kg	680	80.	1
Bromochloromethane	ND		ug/kg	140	14.	1
2,2-Dichloropropane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	68	19.	1
1,3-Dichloropropane	ND		ug/kg	140	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	8.9	1
Bromobenzene	ND		ug/kg	140	9.8	1
n-Butylbenzene	ND		ug/kg	68	11.	1
sec-Butylbenzene	ND		ug/kg	68	9.9	1
tert-Butylbenzene	ND		ug/kg	140	8.0	1
o-Chlorotoluene	ND		ug/kg	140	13.	1
p-Chlorotoluene	ND		ug/kg	140	7.3	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	68.	1
Hexachlorobutadiene	ND		ug/kg	270	11.	1
Isopropylbenzene	ND		ug/kg	68	7.4	1
p-Isopropyltoluene	ND		ug/kg	68	7.4	1
Naphthalene	ND		ug/kg	270	44.	1
Acrylonitrile	ND		ug/kg	270	78.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-51 Date Collected: 06/20/23 13:30

Client ID: 10-B6N (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	68	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	18.	1
1,3,5-Trimethylbenzene	ND		ug/kg	140	13.	1
1,2,4-Trimethylbenzene	ND		ug/kg	140	23.	1
1,4-Dioxane	ND		ug/kg	5400	2400	1
p-Diethylbenzene	ND		ug/kg	140	12.	1
p-Ethyltoluene	ND		ug/kg	140	26.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	140	13.	1
Ethyl ether	ND		ug/kg	140	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	340	96.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	117		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-52
Client ID: 10-B6N (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 13:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 20:09
Analyst: JIC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	290	130	1
1,1-Dichloroethane	ND		ug/kg	58	8.4	1
Chloroform	8.3	J	ug/kg	87	8.1	1
Carbon tetrachloride	ND		ug/kg	58	13.	1
1,2-Dichloropropane	ND		ug/kg	58	7.2	1
Dibromochloromethane	ND		ug/kg	58	8.1	1
1,1,2-Trichloroethane	ND		ug/kg	58	15.	1
Tetrachloroethene	18000	E	ug/kg	29	11.	1
Chlorobenzene	ND		ug/kg	29	7.3	1
Trichlorofluoromethane	ND		ug/kg	230	40.	1
1,2-Dichloroethane	ND		ug/kg	58	15.	1
1,1,1-Trichloroethane	ND		ug/kg	29	9.7	1
Bromodichloromethane	ND		ug/kg	29	6.3	1
trans-1,3-Dichloropropene	ND		ug/kg	58	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	29	9.1	1
1,3-Dichloropropene, Total	ND		ug/kg	29	9.1	1
1,1-Dichloropropene	ND		ug/kg	29	9.2	1
Bromoform	ND		ug/kg	230	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	29	9.6	1
Benzene	ND		ug/kg	29	9.6	1
Toluene	ND		ug/kg	58	31.	1
Ethylbenzene	ND		ug/kg	58	8.2	1
Chloromethane	ND		ug/kg	230	54.	1
Bromomethane	ND		ug/kg	120	34.	1
Vinyl chloride	ND		ug/kg	58	19.	1
Chloroethane	ND		ug/kg	120	26.	1
1,1-Dichloroethene	ND		ug/kg	58	14.	1
trans-1,2-Dichloroethene	ND		ug/kg	87	7.9	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-52 Date Collected: 06/20/23 13:35

Client ID: 10-B6N (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	950		ug/kg	29	7.9	1
1,2-Dichlorobenzene	ND		ug/kg	120	8.3	1
1,3-Dichlorobenzene	ND		ug/kg	120	8.6	1
1,4-Dichlorobenzene	ND		ug/kg	120	9.9	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	ND		ug/kg	120	32.	1
o-Xylene	ND		ug/kg	58	17.	1
Xylenes, Total	ND		ug/kg	58	17.	1
cis-1,2-Dichloroethene	210		ug/kg	58	10.	1
1,2-Dichloroethene, Total	210		ug/kg	58	7.9	1
Dibromomethane	ND		ug/kg	120	14.	1
Styrene	ND		ug/kg	58	11.	1
Dichlorodifluoromethane	ND		ug/kg	580	53.	1
Acetone	ND		ug/kg	580	280	1
Carbon disulfide	ND		ug/kg	580	260	1
2-Butanone	ND		ug/kg	580	130	1
Vinyl acetate	ND		ug/kg	580	120	1
4-Methyl-2-pentanone	ND		ug/kg	580	74.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.3	1
2-Hexanone	ND		ug/kg	580	68.	1
Bromochloromethane	ND		ug/kg	120	12.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	58	16.	1
1,3-Dichloropropane	ND		ug/kg	120	9.7	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	29	7.6	1
Bromobenzene	ND		ug/kg	120	8.4	1
n-Butylbenzene	ND		ug/kg	58	9.7	1
sec-Butylbenzene	ND		ug/kg	58	8.4	1
tert-Butylbenzene	ND		ug/kg	120	6.8	1
o-Chlorotoluene	ND		ug/kg	120	11.	1
p-Chlorotoluene	ND		ug/kg	120	6.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	170	58.	1
Hexachlorobutadiene	ND		ug/kg	230	9.8	1
Isopropylbenzene	ND		ug/kg	58	6.3	1
p-Isopropyltoluene	ND		ug/kg	58	6.3	1
Naphthalene	94	J	ug/kg	230	38.	1
Acrylonitrile	ND		ug/kg	230	66.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-52 Date Collected: 06/20/23 13:35

Client ID: 10-B6N (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	58	9.9	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	16.	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	19.	1
1,4-Dioxane	ND		ug/kg	4600	2000	1
p-Diethylbenzene	ND		ug/kg	120	10.	1
p-Ethyltoluene	ND		ug/kg	120	22.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	120	11.	1
Ethyl ether	ND		ug/kg	120	20.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	290	82.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	93		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-52 D
Client ID: 10-B6N (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 13:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/28/23 10:09
Analyst: MKS
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	17000		ug/kg	290	110	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	110		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-53
Client ID: 10-B6N (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 13:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 16:42
Analyst: JIC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	4.0		ug/kg	0.52	0.21	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.18	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	8.0		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	17		ug/kg	1.6	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-53 Date Collected: 06/20/23 13:40

Client ID: 10-B6N (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	3.3		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	23		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	40		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.21	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	190		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	38		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-53 Date Collected: 06/20/23 13:40

Client ID: 10-B6N (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-54
Client ID: 10-B6E (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:20
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 17:07
Analyst: JIC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	1.8		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.18	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	0.75	J	ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-54 Date Collected: 06/20/23 14:20

Client ID: 10-B6E (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	28		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	11		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	0.90	J	ug/kg	1.0	0.11	1
Naphthalene	21		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-54 Date Collected: 06/20/23 14:20

Client ID: 10-B6E (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	0.62	J	ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	0.73	J	ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	0.55	J	ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	0.38	J	ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	87		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-55
Client ID: 10-B6E (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:25
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 20:34
Analyst: JIC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	310	140	1
1,1-Dichloroethane	ND		ug/kg	62	9.0	1
Chloroform	ND		ug/kg	93	8.7	1
Carbon tetrachloride	ND		ug/kg	62	14.	1
1,2-Dichloropropane	ND		ug/kg	62	7.8	1
Dibromochloromethane	ND		ug/kg	62	8.7	1
1,1,2-Trichloroethane	ND		ug/kg	62	17.	1
Tetrachloroethene	7300		ug/kg	31	12.	1
Chlorobenzene	ND		ug/kg	31	7.9	1
Trichlorofluoromethane	ND		ug/kg	250	43.	1
1,2-Dichloroethane	ND		ug/kg	62	16.	1
1,1,1-Trichloroethane	ND		ug/kg	31	10.	1
Bromodichloromethane	ND		ug/kg	31	6.8	1
trans-1,3-Dichloropropene	ND		ug/kg	62	17.	1
cis-1,3-Dichloropropene	ND		ug/kg	31	9.8	1
1,3-Dichloropropene, Total	ND		ug/kg	31	9.8	1
1,1-Dichloropropene	ND		ug/kg	31	9.9	1
Bromoform	ND		ug/kg	250	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	31	10.	1
Benzene	ND		ug/kg	31	10.	1
Toluene	ND		ug/kg	62	34.	1
Ethylbenzene	ND		ug/kg	62	8.8	1
Chloromethane	ND		ug/kg	250	58.	1
Bromomethane	ND		ug/kg	120	36.	1
Vinyl chloride	ND		ug/kg	62	21.	1
Chloroethane	ND		ug/kg	120	28.	1
1,1-Dichloroethene	ND		ug/kg	62	15.	1
trans-1,2-Dichloroethene	ND		ug/kg	93	8.5	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-55 Date Collected: 06/20/23 14:25

Client ID: 10-B6E (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	360		ug/kg	31	8.5	1
1,2-Dichlorobenzene	ND		ug/kg	120	9.0	1
1,3-Dichlorobenzene	ND		ug/kg	120	9.2	1
1,4-Dichlorobenzene	ND		ug/kg	120	11.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	ND		ug/kg	120	35.	1
o-Xylene	ND		ug/kg	62	18.	1
Xylenes, Total	ND		ug/kg	62	18.	1
cis-1,2-Dichloroethene	25	J	ug/kg	62	11.	1
1,2-Dichloroethene, Total	25	J	ug/kg	62	8.5	1
Dibromomethane	ND		ug/kg	120	15.	1
Styrene	ND		ug/kg	62	12.	1
Dichlorodifluoromethane	ND		ug/kg	620	57.	1
Acetone	ND		ug/kg	620	300	1
Carbon disulfide	ND		ug/kg	620	280	1
2-Butanone	ND		ug/kg	620	140	1
Vinyl acetate	ND		ug/kg	620	130	1
4-Methyl-2-pentanone	ND		ug/kg	620	80.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.9	1
2-Hexanone	ND		ug/kg	620	73.	1
Bromochloromethane	ND		ug/kg	120	13.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	62	17.	1
1,3-Dichloropropane	ND		ug/kg	120	10.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	31	8.2	1
Bromobenzene	ND		ug/kg	120	9.0	1
n-Butylbenzene	ND		ug/kg	62	10.	1
sec-Butylbenzene	ND		ug/kg	62	9.1	1
tert-Butylbenzene	ND		ug/kg	120	7.3	1
o-Chlorotoluene	ND		ug/kg	120	12.	1
p-Chlorotoluene	ND		ug/kg	120	6.7	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	190	62.	1
Hexachlorobutadiene	ND		ug/kg	250	10.	1
Isopropylbenzene	ND		ug/kg	62	6.8	1
p-Isopropyltoluene	ND		ug/kg	62	6.8	1
Naphthalene	ND		ug/kg	250	40.	1
Acrylonitrile	ND		ug/kg	250	72.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-55 Date Collected: 06/20/23 14:25

Client ID: 10-B6E (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	62	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	17.	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	12.	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	21.	1
1,4-Dioxane	ND		ug/kg	5000	2200	1
p-Diethylbenzene	ND		ug/kg	120	11.	1
p-Ethyltoluene	ND		ug/kg	120	24.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	120	12.	1
Ethyl ether	ND		ug/kg	120	21.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	310	88.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	98		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-56
Client ID: 10-B6E (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 17:33
Analyst: JIC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.55	0.21	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	1.1	J	ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-56 Date Collected: 06/20/23 14:30

Client ID: 10-B6E (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	1.1	J	ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	86		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	12		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-56 Date Collected: 06/20/23 14:30

Client ID: 10-B6E (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	88	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-58
Client ID: 10-B6EE (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/03/23 11:05
Analyst: JIC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.92	0.13	1
Chloroform	0.24	J	ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.92	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.92	0.11	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.24	1
Tetrachloroethene	7.2		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.14	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.92	0.50	1
Ethylbenzene	ND		ug/kg	0.92	0.13	1
Chloromethane	ND		ug/kg	3.7	0.85	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-58 Date Collected: 06/20/23 14:05

Client ID: 10-B6EE (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	3.9		ug/kg	0.46	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.92	0.27	1
Xylenes, Total	ND		ug/kg	0.92	0.27	1
cis-1,2-Dichloroethene	2.1		ug/kg	0.92	0.16	1
1,2-Dichloroethene, Total	2.1		ug/kg	0.92	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.92	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.84	1
Acetone	5.7	J	ug/kg	9.2	4.4	1
Carbon disulfide	ND		ug/kg	9.2	4.2	1
2-Butanone	4.9	J	ug/kg	9.2	2.0	1
Vinyl acetate	ND		ug/kg	9.2	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.2	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.92	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.92	0.15	1
sec-Butylbenzene	ND		ug/kg	0.92	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.91	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.15	1
Isopropylbenzene	ND		ug/kg	0.92	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.10	1
Naphthalene	ND		ug/kg	3.7	0.60	1
Acrylonitrile	ND		ug/kg	3.7	1.0	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-58 Date Collected: 06/20/23 14:05

Client ID: 10-B6EE (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.30	1
1,4-Dioxane	ND		ug/kg	73	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	90		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-59
Client ID: 10-B6EE (5-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:10
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/01/23 23:43
Analyst: AJK
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	0.50	J	ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	17		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-59 Date Collected: 06/20/23 14:10

Client ID: 10-B6EE (5-5.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	7.7		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	2.0		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	2.0		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	13		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	2.5	J	ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.66	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-59 Date Collected: 06/20/23 14:10

Client ID: 10-B6EE (5-5.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	81	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-60
Client ID: 10-B6S (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 17:59
Analyst: JIC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	0.31	J	ug/kg	1.6	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	41		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-60 Date Collected: 06/20/23 14:40

Client ID: 10-B6S (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	1.5		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	9.0	J	ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.67	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-60 Date Collected: 06/20/23 14:40

Client ID: 10-B6S (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	83	36.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-61
Client ID: 10-B6S (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 18:25
Analyst: JIC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.93	0.13	1
Chloroform	0.16	J	ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.93	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.93	0.12	1
Dibromochloromethane	ND		ug/kg	0.93	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.93	0.25	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.93	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.93	0.50	1
Ethylbenzene	ND		ug/kg	0.93	0.13	1
Chloromethane	ND		ug/kg	3.7	0.86	1
Bromomethane	ND		ug/kg	1.8	0.54	1
Vinyl chloride	ND		ug/kg	0.93	0.31	1
Chloroethane	ND		ug/kg	1.8	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.93	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-61 Date Collected: 06/20/23 14:45

Client ID: 10-B6S (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.19	1
p/m-Xylene	ND		ug/kg	1.8	0.52	1
o-Xylene	ND		ug/kg	0.93	0.27	1
Xylenes, Total	ND		ug/kg	0.93	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.93	0.13	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.93	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.3	0.85	1
Acetone	6.2	J	ug/kg	9.3	4.4	1
Carbon disulfide	ND		ug/kg	9.3	4.2	1
2-Butanone	ND		ug/kg	9.3	2.0	1
Vinyl acetate	ND		ug/kg	9.3	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.3	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.3	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.93	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.93	0.15	1
sec-Butylbenzene	ND		ug/kg	0.93	0.14	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.18	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.92	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.16	1
Isopropylbenzene	ND		ug/kg	0.93	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.93	0.10	1
Naphthalene	ND		ug/kg	3.7	0.60	1
Acrylonitrile	ND		ug/kg	3.7	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-61 Date Collected: 06/20/23 14:45

Client ID: 10-B6S (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.93	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.31	1
1,4-Dioxane	ND		ug/kg	74	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.18	1
Ethyl ether	ND		ug/kg	1.8	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	106		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-62
Client ID: 10-B6S (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 18:51
Analyst: JIC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.94	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.94	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.94	0.12	1
Dibromochloromethane	ND		ug/kg	0.94	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.94	0.25	1
Tetrachloroethene	ND		ug/kg	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.65	1
1,2-Dichloroethane	ND		ug/kg	0.94	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	0.16	1
Bromodichloromethane	ND		ug/kg	0.47	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.94	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.47	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.16	1
Benzene	ND		ug/kg	0.47	0.16	1
Toluene	ND		ug/kg	0.94	0.51	1
Ethylbenzene	ND		ug/kg	0.94	0.13	1
Chloromethane	ND		ug/kg	3.8	0.88	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.94	0.32	1
Chloroethane	ND		ug/kg	1.9	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.94	0.22	1
trans-1,2-Dichloroethene	0.19	J	ug/kg	1.4	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-62 Date Collected: 06/20/23 14:50

Client ID: 10-B6S (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.53	1
o-Xylene	ND		ug/kg	0.94	0.27	1
Xylenes, Total	ND		ug/kg	0.94	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.16	1
1,2-Dichloroethene, Total	0.19	J	ug/kg	0.94	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.22	1
Styrene	ND		ug/kg	0.94	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.4	0.86	1
Acetone	72		ug/kg	9.4	4.5	1
Carbon disulfide	ND		ug/kg	9.4	4.3	1
2-Butanone	21		ug/kg	9.4	2.1	1
Vinyl acetate	ND		ug/kg	9.4	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.4	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.94	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.47	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.94	0.16	1
sec-Butylbenzene	ND		ug/kg	0.94	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.94	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.94	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.94	0.10	1
Naphthalene	ND		ug/kg	3.8	0.61	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-62 Date Collected: 06/20/23 14:50

Client ID: 10-B6S (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.94	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.31	1
1,4-Dioxane	ND		ug/kg	75	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.7	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/26/23 12:48
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 51,53-54,56,60-62 Batch: WG1797137-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/26/23 12:48
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 51,53-54,56,60-62 Batch: WG1797137-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/26/23 12:48
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 51,53-54,56,60-62 Batch: WG1797137-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/26/23 12:48
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 52,55 Batch: WG1797141-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/26/23 12:48
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 52,55 Batch: WG1797141-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/26/23 12:48
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 52,55 Batch: WG1797141-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/27/23 19:48
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26-27,42 Batch: WG1797169-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/27/23 19:48
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26-27,42 Batch: WG1797169-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/27/23 19:48
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26-27,42 Batch: WG1797169-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	123		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/27/23 19:48
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 26 Batch: WG1797173-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/27/23 19:48
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 26 Batch: WG1797173-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/27/23 19:48
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 26 Batch: WG1797173-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**131**	Q	70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	123		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/24/23 09:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 27,33-34,41-42,46 Batch: WG1797202-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/24/23 09:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 27,33-34,41-42,46 Batch: WG1797202-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

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Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 27,33-34,41-42,46 Batch: WG1797202-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	123		70-130

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Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26,28,32,35-36,40,45,47 Batch: WG1797206-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

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Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26,28,32,35-36,40,45,47 Batch: WG1797206-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

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Analytical Method: 1,8260D
Analytical Date: 06/24/23 09:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26,28,32,35-36,40,45,47 Batch: WG1797206-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	123		70-130

Project Name: AVANT GARDNER
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/28/23 09:23
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 51-52 Batch: WG1797314-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

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Batch Quality Control

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Analytical Date: 06/28/23 09:23
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 51-52 Batch: WG1797314-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

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Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 51-52 Batch: WG1797314-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	119		70-130

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Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 08:31
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 31,44,49,58 Batch: WG1799615-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

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Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 31,44,49,58 Batch: WG1799615-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

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Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 31,44,49,58 Batch: WG1799615-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.46	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	87		70-130

Project Name: AVANT GARDNER
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Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 09:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 29-30 Batch: WG1799618-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 09:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 29-30 Batch: WG1799618-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 09:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 29-30 Batch: WG1799618-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	83		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 15:06
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 50,59 Batch: WG1799631-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	2.0		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 15:06
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 50,59 Batch: WG1799631-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 15:06
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 50,59 Batch: WG1799631-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 15:06
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 29 Batch: WG1799762-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	99	J	ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 15:06
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 29 Batch: WG1799762-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 15:06
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 29 Batch: WG1799762-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 51,53-54,56,60-62 Batch: WG1797137-3 WG1797137-4								
Methylene chloride	88		89		70-130	1		30
1,1-Dichloroethane	124		126		70-130	2		30
Chloroform	92		92		70-130	0		30
Carbon tetrachloride	92		94		70-130	2		30
1,2-Dichloropropane	121		125		70-130	3		30
Dibromochloromethane	91		92		70-130	1		30
1,1,2-Trichloroethane	88		90		70-130	2		30
Tetrachloroethene	102		103		70-130	1		30
Chlorobenzene	94		95		70-130	1		30
Trichlorofluoromethane	76		80		70-139	5		30
1,2-Dichloroethane	102		105		70-130	3		30
1,1,1-Trichloroethane	97		99		70-130	2		30
Bromodichloromethane	90		92		70-130	2		30
trans-1,3-Dichloropropene	92		92		70-130	0		30
cis-1,3-Dichloropropene	95		97		70-130	2		30
1,1-Dichloropropene	102		103		70-130	1		30
Bromoform	85		88		70-130	3		30
1,1,2,2-Tetrachloroethane	78		81		70-130	4		30
Benzene	96		98		70-130	2		30
Toluene	93		95		70-130	2		30
Ethylbenzene	96		98		70-130	2		30
Chloromethane	**135**	Q	**133**	Q	52-130	1		30
Bromomethane	62		59		57-147	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 51,53-54,56,60-62 Batch: WG1797137-3 WG1797137-4								
Vinyl chloride	80		78		67-130	3		30
Chloroethane	60		59		50-151	2		30
1,1-Dichloroethene	97		97		65-135	0		30
trans-1,2-Dichloroethene	99		99		70-130	0		30
Trichloroethene	99		102		70-130	3		30
1,2-Dichlorobenzene	92		97		70-130	5		30
1,3-Dichlorobenzene	94		98		70-130	4		30
1,4-Dichlorobenzene	92		94		70-130	2		30
Methyl tert butyl ether	91		94		66-130	3		30
p/m-Xylene	100		101		70-130	1		30
o-Xylene	98		99		70-130	1		30
cis-1,2-Dichloroethene	96		98		70-130	2		30
Dibromomethane	81		84		70-130	4		30
Styrene	99		99		70-130	0		30
Dichlorodifluoromethane	56		56		30-146	0		30
Acetone	89		90		54-140	1		30
Carbon disulfide	92		91		59-130	1		30
2-Butanone	105		97		70-130	8		30
Vinyl acetate	83		87		70-130	5		30
4-Methyl-2-pentanone	128		129		70-130	1		30
1,2,3-Trichloropropane	78		82		68-130	5		30
2-Hexanone	110		112		70-130	2		30
Bromochloromethane	92		94		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 51,53-54,56,60-62 Batch: WG1797137-3 WG1797137-4								
2,2-Dichloropropane	93		94		70-130	1		30
1,2-Dibromoethane	93		96		70-130	3		30
1,3-Dichloropropane	89		90		69-130	1		30
1,1,1,2-Tetrachloroethane	98		98		70-130	0		30
Bromobenzene	94		97		70-130	3		30
n-Butylbenzene	87		89		70-130	2		30
sec-Butylbenzene	96		101		70-130	5		30
tert-Butylbenzene	96		100		70-130	4		30
o-Chlorotoluene	92		95		70-130	3		30
p-Chlorotoluene	89		93		70-130	4		30
1,2-Dibromo-3-chloropropane	86		89		68-130	3		30
Hexachlorobutadiene	95		98		67-130	3		30
Isopropylbenzene	99		102		70-130	3		30
p-Isopropyltoluene	95		98		70-130	3		30
Naphthalene	86		91		70-130	6		30
Acrylonitrile	126		124		70-130	2		30
n-Propylbenzene	93		97		70-130	4		30
1,2,3-Trichlorobenzene	87		91		70-130	4		30
1,2,4-Trichlorobenzene	88		90		70-130	2		30
1,3,5-Trimethylbenzene	95		98		70-130	3		30
1,2,4-Trimethylbenzene	95		98		70-130	3		30
1,4-Dioxane	94		94		65-136	0		30
p-Diethylbenzene	94		97		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 51,53-54,56,60-62 Batch: WG1797137-3 WG1797137-4								
p-Ethyltoluene	99		102		70-130	3		30
1,2,4,5-Tetramethylbenzene	97		99		70-130	2		30
Ethyl ether	89		94		67-130	5		30
trans-1,4-Dichloro-2-butene	119		116		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		91		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	100		103		70-130
Dibromofluoromethane	94		94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 52,55 Batch: WG1797141-3 WG1797141-4								
Methylene chloride	88		89		70-130	1		30
1,1-Dichloroethane	124		126		70-130	2		30
Chloroform	92		92		70-130	0		30
Carbon tetrachloride	92		94		70-130	2		30
1,2-Dichloropropane	121		125		70-130	3		30
Dibromochloromethane	91		92		70-130	1		30
1,1,2-Trichloroethane	88		90		70-130	2		30
Tetrachloroethene	102		103		70-130	1		30
Chlorobenzene	94		95		70-130	1		30
Trichlorofluoromethane	76		80		70-139	5		30
1,2-Dichloroethane	102		105		70-130	3		30
1,1,1-Trichloroethane	97		99		70-130	2		30
Bromodichloromethane	90		92		70-130	2		30
trans-1,3-Dichloropropene	92		92		70-130	0		30
cis-1,3-Dichloropropene	95		97		70-130	2		30
1,1-Dichloropropene	102		103		70-130	1		30
Bromoform	85		88		70-130	3		30
1,1,2,2-Tetrachloroethane	78		81		70-130	4		30
Benzene	96		98		70-130	2		30
Toluene	93		95		70-130	2		30
Ethylbenzene	96		98		70-130	2		30
Chloromethane	**135**	Q	**133**	Q	52-130	1		30
Bromomethane	62		59		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 52,55 Batch: WG1797141-3 WG1797141-4								
Vinyl chloride	80		78		67-130	3		30
Chloroethane	60		59		50-151	2		30
1,1-Dichloroethene	97		97		65-135	0		30
trans-1,2-Dichloroethene	99		99		70-130	0		30
Trichloroethene	99		102		70-130	3		30
1,2-Dichlorobenzene	92		97		70-130	5		30
1,3-Dichlorobenzene	94		98		70-130	4		30
1,4-Dichlorobenzene	92		94		70-130	2		30
Methyl tert butyl ether	91		94		66-130	3		30
p/m-Xylene	100		101		70-130	1		30
o-Xylene	98		99		70-130	1		30
cis-1,2-Dichloroethene	96		98		70-130	2		30
Dibromomethane	81		84		70-130	4		30
Styrene	99		99		70-130	0		30
Dichlorodifluoromethane	56		56		30-146	0		30
Acetone	89		90		54-140	1		30
Carbon disulfide	92		91		59-130	1		30
2-Butanone	105		97		70-130	8		30
Vinyl acetate	83		87		70-130	5		30
4-Methyl-2-pentanone	128		129		70-130	1		30
1,2,3-Trichloropropane	78		82		68-130	5		30
2-Hexanone	110		112		70-130	2		30
Bromochloromethane	92		94		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 52,55 Batch: WG1797141-3 WG1797141-4								
2,2-Dichloropropane	93		94		70-130	1		30
1,2-Dibromoethane	93		96		70-130	3		30
1,3-Dichloropropane	89		90		69-130	1		30
1,1,1,2-Tetrachloroethane	98		98		70-130	0		30
Bromobenzene	94		97		70-130	3		30
n-Butylbenzene	87		89		70-130	2		30
sec-Butylbenzene	96		101		70-130	5		30
tert-Butylbenzene	96		100		70-130	4		30
o-Chlorotoluene	92		95		70-130	3		30
p-Chlorotoluene	89		93		70-130	4		30
1,2-Dibromo-3-chloropropane	86		89		68-130	3		30
Hexachlorobutadiene	95		98		67-130	3		30
Isopropylbenzene	99		102		70-130	3		30
p-Isopropyltoluene	95		98		70-130	3		30
Naphthalene	86		91		70-130	6		30
Acrylonitrile	126		124		70-130	2		30
n-Propylbenzene	93		97		70-130	4		30
1,2,3-Trichlorobenzene	87		91		70-130	4		30
1,2,4-Trichlorobenzene	88		90		70-130	2		30
1,3,5-Trimethylbenzene	95		98		70-130	3		30
1,2,4-Trimethylbenzene	95		98		70-130	3		30
1,4-Dioxane	94		94		65-136	0		30
p-Diethylbenzene	94		97		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 52,55 Batch: WG1797141-3 WG1797141-4								
p-Ethyltoluene	99		102		70-130	3		30
1,2,4,5-Tetramethylbenzene	97		99		70-130	2		30
Ethyl ether	89		94		67-130	5		30
trans-1,4-Dichloro-2-butene	119		116		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		91		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	100		103		70-130
Dibromofluoromethane	94		94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26-27,42 Batch: WG1797169-3 WG1797169-4								
Methylene chloride	92		86		70-130	7		30
1,1-Dichloroethane	103		95		70-130	8		30
Chloroform	95		90		70-130	5		30
Carbon tetrachloride	109		101		70-130	8		30
1,2-Dichloropropane	92		87		70-130	6		30
Dibromochloromethane	83		80		70-130	4		30
1,1,2-Trichloroethane	81		78		70-130	4		30
Tetrachloroethene	81		72		70-130	12		30
Chlorobenzene	88		81		70-130	8		30
Trichlorofluoromethane	90		79		70-139	13		30
1,2-Dichloroethane	107		104		70-130	3		30
1,1,1-Trichloroethane	114		102		70-130	11		30
Bromodichloromethane	107		101		70-130	6		30
trans-1,3-Dichloropropene	84		80		70-130	5		30
cis-1,3-Dichloropropene	98		93		70-130	5		30
1,1-Dichloropropene	87		77		70-130	12		30
Bromoform	82		78		70-130	5		30
1,1,2,2-Tetrachloroethane	**66**	Q	**62**	Q	70-130	6		30
Benzene	95		88		70-130	8		30
Toluene	82		75		70-130	9		30
Ethylbenzene	88		80		70-130	10		30
Chloromethane	97		86		52-130	12		30
Bromomethane	110		99		57-147	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26-27,42 Batch: WG1797169-3 WG1797169-4								
Vinyl chloride	108		90		67-130	18		30
Chloroethane	107		96		50-151	11		30
1,1-Dichloroethene	107		88		65-135	19		30
trans-1,2-Dichloroethene	92		82		70-130	11		30
Trichloroethene	89		84		70-130	6		30
1,2-Dichlorobenzene	83		76		70-130	9		30
1,3-Dichlorobenzene	82		75		70-130	9		30
1,4-Dichlorobenzene	82		75		70-130	9		30
Methyl tert butyl ether	97		93		66-130	4		30
p/m-Xylene	94		86		70-130	9		30
o-Xylene	93		86		70-130	8		30
cis-1,2-Dichloroethene	91		86		70-130	6		30
Dibromomethane	100		97		70-130	3		30
Styrene	92		86		70-130	7		30
Dichlorodifluoromethane	54		46		30-146	16		30
Acetone	115		115		54-140	0		30
Carbon disulfide	104		90		59-130	14		30
2-Butanone	101		95		70-130	6		30
Vinyl acetate	91		84		70-130	8		30
4-Methyl-2-pentanone	83		78		70-130	6		30
1,2,3-Trichloropropane	75		72		68-130	4		30
2-Hexanone	88		85		70-130	3		30
Bromochloromethane	102		98		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26-27,42 Batch: WG1797169-3 WG1797169-4								
2,2-Dichloropropane	104		93		70-130	11		30
1,2-Dibromoethane	76		73		70-130	4		30
1,3-Dichloropropane	79		75		69-130	5		30
1,1,1,2-Tetrachloroethane	88		82		70-130	7		30
Bromobenzene	80		73		70-130	9		30
n-Butylbenzene	84		74		70-130	13		30
sec-Butylbenzene	81		71		70-130	13		30
tert-Butylbenzene	81		72		70-130	12		30
o-Chlorotoluene	81		74		70-130	9		30
p-Chlorotoluene	81		74		70-130	9		30
1,2-Dibromo-3-chloropropane	79		76		68-130	4		30
Hexachlorobutadiene	89		77		67-130	14		30
Isopropylbenzene	79		70		70-130	12		30
p-Isopropyltoluene	84		74		70-130	13		30
Naphthalene	74		**69**	Q	70-130	7		30
Acrylonitrile	102		103		70-130	1		30
n-Propylbenzene	81		72		70-130	12		30
1,2,3-Trichlorobenzene	77		71		70-130	8		30
1,2,4-Trichlorobenzene	78		72		70-130	8		30
1,3,5-Trimethylbenzene	88		78		70-130	12		30
1,2,4-Trimethylbenzene	85		77		70-130	10		30
1,4-Dioxane	104		104		65-136	0		30
p-Diethylbenzene	86		76		70-130	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26-27,42 Batch: WG1797169-3 WG1797169-4								
p-Ethyltoluene	84		75		70-130	11		30
1,2,4,5-Tetramethylbenzene	**67**	Q	**62**	Q	70-130	8		30
Ethyl ether	101		90		67-130	12		30
trans-1,4-Dichloro-2-butene	86		82		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		112		70-130
Toluene-d8	94		93		70-130
4-Bromofluorobenzene	94		93		70-130
Dibromofluoromethane	106		105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 26 Batch: WG1797173-3 WG1797173-4								
Methylene chloride	92		86		70-130	7		30
1,1-Dichloroethane	103		95		70-130	8		30
Chloroform	95		90		70-130	5		30
Carbon tetrachloride	109		101		70-130	8		30
1,2-Dichloropropane	92		87		70-130	6		30
Dibromochloromethane	83		80		70-130	4		30
1,1,2-Trichloroethane	81		78		70-130	4		30
Tetrachloroethene	81		72		70-130	12		30
Chlorobenzene	88		81		70-130	8		30
Trichlorofluoromethane	90		79		70-139	13		30
1,2-Dichloroethane	107		104		70-130	3		30
1,1,1-Trichloroethane	114		102		70-130	11		30
Bromodichloromethane	107		101		70-130	6		30
trans-1,3-Dichloropropene	84		80		70-130	5		30
cis-1,3-Dichloropropene	98		93		70-130	5		30
1,1-Dichloropropene	87		77		70-130	12		30
Bromoform	82		78		70-130	5		30
1,1,2,2-Tetrachloroethane	**66**	Q	**62**	Q	70-130	6		30
Benzene	95		88		70-130	8		30
Toluene	82		75		70-130	9		30
Ethylbenzene	88		80		70-130	10		30
Chloromethane	97		86		52-130	12		30
Bromomethane	110		99		57-147	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 26 Batch: WG1797173-3 WG1797173-4								
Vinyl chloride	108		90		67-130	18		30
Chloroethane	107		96		50-151	11		30
1,1-Dichloroethene	107		88		65-135	19		30
trans-1,2-Dichloroethene	92		82		70-130	11		30
Trichloroethene	89		84		70-130	6		30
1,2-Dichlorobenzene	83		76		70-130	9		30
1,3-Dichlorobenzene	82		75		70-130	9		30
1,4-Dichlorobenzene	82		75		70-130	9		30
Methyl tert butyl ether	97		93		66-130	4		30
p/m-Xylene	94		86		70-130	9		30
o-Xylene	93		86		70-130	8		30
cis-1,2-Dichloroethene	91		86		70-130	6		30
Dibromomethane	100		97		70-130	3		30
Styrene	92		86		70-130	7		30
Dichlorodifluoromethane	54		46		30-146	16		30
Acetone	115		115		54-140	0		30
Carbon disulfide	104		90		59-130	14		30
2-Butanone	101		95		70-130	6		30
Vinyl acetate	91		84		70-130	8		30
4-Methyl-2-pentanone	83		78		70-130	6		30
1,2,3-Trichloropropane	75		72		68-130	4		30
2-Hexanone	88		85		70-130	3		30
Bromochloromethane	102		98		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 26 Batch: WG1797173-3 WG1797173-4								
2,2-Dichloropropane	104		93		70-130	11		30
1,2-Dibromoethane	76		73		70-130	4		30
1,3-Dichloropropane	79		75		69-130	5		30
1,1,1,2-Tetrachloroethane	88		82		70-130	7		30
Bromobenzene	80		73		70-130	9		30
n-Butylbenzene	84		74		70-130	13		30
sec-Butylbenzene	81		71		70-130	13		30
tert-Butylbenzene	81		72		70-130	12		30
o-Chlorotoluene	81		74		70-130	9		30
p-Chlorotoluene	81		74		70-130	9		30
1,2-Dibromo-3-chloropropane	79		76		68-130	4		30
Hexachlorobutadiene	89		77		67-130	14		30
Isopropylbenzene	79		70		70-130	12		30
p-Isopropyltoluene	84		74		70-130	13		30
Naphthalene	74		**69**	Q	70-130	7		30
Acrylonitrile	102		103		70-130	1		30
n-Propylbenzene	81		72		70-130	12		30
1,2,3-Trichlorobenzene	77		71		70-130	8		30
1,2,4-Trichlorobenzene	78		72		70-130	8		30
1,3,5-Trimethylbenzene	88		78		70-130	12		30
1,2,4-Trimethylbenzene	85		77		70-130	10		30
1,4-Dioxane	104		104		65-136	0		30
p-Diethylbenzene	86		76		70-130	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 26 Batch: WG1797173-3 WG1797173-4								
p-Ethyltoluene	84		75		70-130	11		30
1,2,4,5-Tetramethylbenzene	**67**	Q	**62**	Q	70-130	8		30
Ethyl ether	101		90		67-130	12		30
trans-1,4-Dichloro-2-butene	86		82		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		112		70-130
Toluene-d8	94		93		70-130
4-Bromofluorobenzene	94		93		70-130
Dibromofluoromethane	106		105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27,33-34,41-42,46 Batch: WG1797202-3 WG1797202-4								
Methylene chloride	92		87		70-130	6		30
1,1-Dichloroethane	101		100		70-130	1		30
Chloroform	95		96		70-130	1		30
Carbon tetrachloride	105		105		70-130	0		30
1,2-Dichloropropane	92		93		70-130	1		30
Dibromochloromethane	86		83		70-130	4		30
1,1,2-Trichloroethane	85		81		70-130	5		30
Tetrachloroethene	82		77		70-130	6		30
Chlorobenzene	91		86		70-130	6		30
Trichlorofluoromethane	90		87		70-139	3		30
1,2-Dichloroethane	106		107		70-130	1		30
1,1,1-Trichloroethane	108		109		70-130	1		30
Bromodichloromethane	106		109		70-130	3		30
trans-1,3-Dichloropropene	87		82		70-130	6		30
cis-1,3-Dichloropropene	98		99		70-130	1		30
1,1-Dichloropropene	81		82		70-130	1		30
Bromoform	85		78		70-130	9		30
1,1,2,2-Tetrachloroethane	70		**63**	Q	70-130	11		30
Benzene	94		96		70-130	2		30
Toluene	84		80		70-130	5		30
Ethylbenzene	90		85		70-130	6		30
Chloromethane	116		122		52-130	5		30
Bromomethane	115		112		57-147	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27,33-34,41-42,46 Batch: WG1797202-3 WG1797202-4								
Vinyl chloride	118		118		67-130	0		30
Chloroethane	111		106		50-151	5		30
1,1-Dichloroethene	93		99		65-135	6		30
trans-1,2-Dichloroethene	86		88		70-130	2		30
Trichloroethene	87		88		70-130	1		30
1,2-Dichlorobenzene	88		81		70-130	8		30
1,3-Dichlorobenzene	88		79		70-130	11		30
1,4-Dichlorobenzene	89		80		70-130	11		30
Methyl tert butyl ether	92		97		66-130	5		30
p/m-Xylene	98		92		70-130	6		30
o-Xylene	98		93		70-130	5		30
cis-1,2-Dichloroethene	90		91		70-130	1		30
Dibromomethane	100		101		70-130	1		30
Styrene	97		92		70-130	5		30
Dichlorodifluoromethane	90		100		30-146	11		30
Acetone	117		116		54-140	1		30
Carbon disulfide	104		105		59-130	1		30
2-Butanone	94		93		70-130	1		30
Vinyl acetate	98		97		70-130	1		30
4-Methyl-2-pentanone	81		79		70-130	3		30
1,2,3-Trichloropropane	76		69		68-130	10		30
2-Hexanone	85		81		70-130	5		30
Bromochloromethane	104		103		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27,33-34,41-42,46 Batch: WG1797202-3 WG1797202-4								
2,2-Dichloropropane	100		102		70-130	2		30
1,2-Dibromoethane	77		74		70-130	4		30
1,3-Dichloropropane	80		77		69-130	4		30
1,1,1,2-Tetrachloroethane	91		87		70-130	4		30
Bromobenzene	85		76		70-130	11		30
n-Butylbenzene	86		78		70-130	10		30
sec-Butylbenzene	83		75		70-130	10		30
tert-Butylbenzene	83		75		70-130	10		30
o-Chlorotoluene	84		77		70-130	9		30
p-Chlorotoluene	85		77		70-130	10		30
1,2-Dibromo-3-chloropropane	83		76		68-130	9		30
Hexachlorobutadiene	94		83		67-130	12		30
Isopropylbenzene	80		72		70-130	11		30
p-Isopropyltoluene	87		78		70-130	11		30
Naphthalene	79		71		70-130	11		30
Acrylonitrile	105		106		70-130	1		30
n-Propylbenzene	83		75		70-130	10		30
1,2,3-Trichlorobenzene	86		77		70-130	11		30
1,2,4-Trichlorobenzene	87		78		70-130	11		30
1,3,5-Trimethylbenzene	90		82		70-130	9		30
1,2,4-Trimethylbenzene	89		80		70-130	11		30
1,4-Dioxane	104		108		65-136	4		30
p-Diethylbenzene	90		80		70-130	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27,33-34,41-42,46 Batch: WG1797202-3 WG1797202-4								
p-Ethyltoluene	87		79		70-130	10		30
1,2,4,5-Tetramethylbenzene	72		**66**	Q	70-130	9		30
Ethyl ether	93		94		67-130	1		30
trans-1,4-Dichloro-2-butene	86		79		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		108		70-130
Toluene-d8	96		92		70-130
4-Bromofluorobenzene	92		89		70-130
Dibromofluoromethane	104		108		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26,28,32,35-36,40,45,47 Batch: WG1797206-3 WG1797206-4								
Methylene chloride	92		87		70-130	6		30
1,1-Dichloroethane	101		100		70-130	1		30
Chloroform	95		96		70-130	1		30
Carbon tetrachloride	105		105		70-130	0		30
1,2-Dichloropropane	92		93		70-130	1		30
Dibromochloromethane	86		83		70-130	4		30
1,1,2-Trichloroethane	85		81		70-130	5		30
Tetrachloroethene	82		77		70-130	6		30
Chlorobenzene	91		86		70-130	6		30
Trichlorofluoromethane	90		87		70-139	3		30
1,2-Dichloroethane	106		107		70-130	1		30
1,1,1-Trichloroethane	108		109		70-130	1		30
Bromodichloromethane	106		109		70-130	3		30
trans-1,3-Dichloropropene	87		82		70-130	6		30
cis-1,3-Dichloropropene	98		99		70-130	1		30
1,1-Dichloropropene	81		82		70-130	1		30
Bromoform	85		78		70-130	9		30
1,1,2,2-Tetrachloroethane	70		**63**	Q	70-130	11		30
Benzene	94		96		70-130	2		30
Toluene	84		80		70-130	5		30
Ethylbenzene	90		85		70-130	6		30
Chloromethane	116		122		52-130	5		30
Bromomethane	115		112		57-147	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26,28,32,35-36,40,45,47 Batch: WG1797206-3 WG1797206-4								
Vinyl chloride	118		118		67-130	0		30
Chloroethane	111		106		50-151	5		30
1,1-Dichloroethene	93		99		65-135	6		30
trans-1,2-Dichloroethene	86		88		70-130	2		30
Trichloroethene	87		88		70-130	1		30
1,2-Dichlorobenzene	88		81		70-130	8		30
1,3-Dichlorobenzene	88		79		70-130	11		30
1,4-Dichlorobenzene	89		80		70-130	11		30
Methyl tert butyl ether	92		97		66-130	5		30
p/m-Xylene	98		92		70-130	6		30
o-Xylene	98		93		70-130	5		30
cis-1,2-Dichloroethene	90		91		70-130	1		30
Dibromomethane	100		101		70-130	1		30
Styrene	97		92		70-130	5		30
Dichlorodifluoromethane	90		100		30-146	11		30
Acetone	117		116		54-140	1		30
Carbon disulfide	104		105		59-130	1		30
2-Butanone	94		93		70-130	1		30
Vinyl acetate	98		97		70-130	1		30
4-Methyl-2-pentanone	81		79		70-130	3		30
1,2,3-Trichloropropane	76		69		68-130	10		30
2-Hexanone	85		81		70-130	5		30
Bromochloromethane	104		103		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26,28,32,35-36,40,45,47 Batch: WG1797206-3 WG1797206-4								
2,2-Dichloropropane	100		102		70-130	2		30
1,2-Dibromoethane	77		74		70-130	4		30
1,3-Dichloropropane	80		77		69-130	4		30
1,1,1,2-Tetrachloroethane	91		87		70-130	4		30
Bromobenzene	85		76		70-130	11		30
n-Butylbenzene	86		78		70-130	10		30
sec-Butylbenzene	83		75		70-130	10		30
tert-Butylbenzene	83		75		70-130	10		30
o-Chlorotoluene	84		77		70-130	9		30
p-Chlorotoluene	85		77		70-130	10		30
1,2-Dibromo-3-chloropropane	83		76		68-130	9		30
Hexachlorobutadiene	94		83		67-130	12		30
Isopropylbenzene	80		72		70-130	11		30
p-Isopropyltoluene	87		78		70-130	11		30
Naphthalene	79		71		70-130	11		30
Acrylonitrile	105		106		70-130	1		30
n-Propylbenzene	83		75		70-130	10		30
1,2,3-Trichlorobenzene	86		77		70-130	11		30
1,2,4-Trichlorobenzene	87		78		70-130	11		30
1,3,5-Trimethylbenzene	90		82		70-130	9		30
1,2,4-Trimethylbenzene	89		80		70-130	11		30
1,4-Dioxane	104		108		65-136	4		30
p-Diethylbenzene	90		80		70-130	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26,28,32,35-36,40,45,47 Batch: WG1797206-3 WG1797206-4								
p-Ethyltoluene	87		79		70-130	10		30
1,2,4,5-Tetramethylbenzene	72		**66**	Q	70-130	9		30
Ethyl ether	93		94		67-130	1		30
trans-1,4-Dichloro-2-butene	86		79		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		108		70-130
Toluene-d8	96		92		70-130
4-Bromofluorobenzene	92		89		70-130
Dibromofluoromethane	104		108		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 51-52 Batch: WG1797314-3 WG1797314-4								
Methylene chloride	104		101		70-130	3		30
1,1-Dichloroethane	113		116		70-130	3		30
Chloroform	101		113		70-130	11		30
Carbon tetrachloride	124		127		70-130	2		30
1,2-Dichloropropane	99		102		70-130	3		30
Dibromochloromethane	85		93		70-130	9		30
1,1,2-Trichloroethane	85		91		70-130	7		30
Tetrachloroethene	93		91		70-130	2		30
Chlorobenzene	98		99		70-130	1		30
Trichlorofluoromethane	112		109		70-139	3		30
1,2-Dichloroethane	112		122		70-130	9		30
1,1,1-Trichloroethane	125		128		70-130	2		30
Bromodichloromethane	111		120		70-130	8		30
trans-1,3-Dichloropropene	87		94		70-130	8		30
cis-1,3-Dichloropropene	103		110		70-130	7		30
1,1-Dichloropropene	96		97		70-130	1		30
Bromoform	84		92		70-130	9		30
1,1,2,2-Tetrachloroethane	71		78		70-130	9		30
Benzene	107		108		70-130	1		30
Toluene	94		93		70-130	1		30
Ethylbenzene	100		100		70-130	0		30
Chloromethane	**166**	Q	**156**	Q	52-130	6		30
Bromomethane	139		139		57-147	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 51-52 Batch: WG1797314-3 WG1797314-4								
Vinyl chloride	**158**	Q	**153**	Q	67-130	3		30
Chloroethane	143		132		50-151	8		30
1,1-Dichloroethene	117		121		65-135	3		30
trans-1,2-Dichloroethene	98		104		70-130	6		30
Trichloroethene	95		100		70-130	5		30
1,2-Dichlorobenzene	92		94		70-130	2		30
1,3-Dichlorobenzene	94		94		70-130	0		30
1,4-Dichlorobenzene	93		94		70-130	1		30
Methyl tert butyl ether	110		125		66-130	13		30
p/m-Xylene	108		107		70-130	1		30
o-Xylene	106		106		70-130	0		30
cis-1,2-Dichloroethene	100		103		70-130	3		30
Dibromomethane	102		112		70-130	9		30
Styrene	102		105		70-130	3		30
Dichlorodifluoromethane	**172**	Q	**148**	Q	30-146	15		30
Acetone	116		133		54-140	14		30
Carbon disulfide	130		127		59-130	2		30
2-Butanone	100		116		70-130	15		30
Vinyl acetate	94		103		70-130	9		30
4-Methyl-2-pentanone	82		95		70-130	15		30
1,2,3-Trichloropropane	78		84		68-130	7		30
2-Hexanone	86		99		70-130	14		30
Bromochloromethane	108		112		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 51-52 Batch: WG1797314-3 WG1797314-4								
2,2-Dichloropropane	119		119		70-130	0		30
1,2-Dibromoethane	78		84		70-130	7		30
1,3-Dichloropropane	81		88		69-130	8		30
1,1,1,2-Tetrachloroethane	92		96		70-130	4		30
Bromobenzene	87		90		70-130	3		30
n-Butylbenzene	101		98		70-130	3		30
sec-Butylbenzene	96		94		70-130	2		30
tert-Butylbenzene	96		93		70-130	3		30
o-Chlorotoluene	93		93		70-130	0		30
p-Chlorotoluene	94		93		70-130	1		30
1,2-Dibromo-3-chloropropane	78		89		68-130	13		30
Hexachlorobutadiene	106		105		67-130	1		30
Isopropylbenzene	93		90		70-130	3		30
p-Isopropyltoluene	100		97		70-130	3		30
Naphthalene	77		84		70-130	9		30
Acrylonitrile	106		118		70-130	11		30
n-Propylbenzene	96		93		70-130	3		30
1,2,3-Trichlorobenzene	82		88		70-130	7		30
1,2,4-Trichlorobenzene	85		91		70-130	7		30
1,3,5-Trimethylbenzene	101		100		70-130	1		30
1,2,4-Trimethylbenzene	97		98		70-130	1		30
1,4-Dioxane	97		107		65-136	10		30
p-Diethylbenzene	101		99		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 51-52 Batch: WG1797314-3 WG1797314-4								
p-Ethyltoluene	98		96		70-130	2		30
1,2,4,5-Tetramethylbenzene	70		77		70-130	10		30
Ethyl ether	110		123		67-130	11		30
trans-1,4-Dichloro-2-butene	88		97		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		110		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	92		94		70-130
Dibromofluoromethane	100		106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 31,44,49,58 Batch: WG1799615-3 WG1799615-4								
Methylene chloride	83		83		70-130	0		30
1,1-Dichloroethane	97		96		70-130	1		30
Chloroform	88		88		70-130	0		30
Carbon tetrachloride	79		79		70-130	0		30
1,2-Dichloropropane	94		96		70-130	2		30
Dibromochloromethane	90		90		70-130	0		30
1,1,2-Trichloroethane	94		98		70-130	4		30
Tetrachloroethene	92		91		70-130	1		30
Chlorobenzene	96		95		70-130	1		30
Trichlorofluoromethane	85		82		70-139	4		30
1,2-Dichloroethane	88		87		70-130	1		30
1,1,1-Trichloroethane	89		88		70-130	1		30
Bromodichloromethane	86		89		70-130	3		30
trans-1,3-Dichloropropene	89		94		70-130	5		30
cis-1,3-Dichloropropene	88		88		70-130	0		30
1,1-Dichloropropene	97		97		70-130	0		30
Bromoform	84		82		70-130	2		30
1,1,2,2-Tetrachloroethane	103		99		70-130	4		30
Benzene	92		92		70-130	0		30
Toluene	94		99		70-130	5		30
Ethylbenzene	102		102		70-130	0		30
Chloromethane	106		107		52-130	1		30
Bromomethane	92		90		57-147	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 31,44,49,58 Batch: WG1799615-3 WG1799615-4								
Vinyl chloride	99		99		67-130	0		30
Chloroethane	102		99		50-151	3		30
1,1-Dichloroethene	89		90		65-135	1		30
trans-1,2-Dichloroethene	89		89		70-130	0		30
Trichloroethene	91		97		70-130	6		30
1,2-Dichlorobenzene	96		96		70-130	0		30
1,3-Dichlorobenzene	97		97		70-130	0		30
1,4-Dichlorobenzene	96		96		70-130	0		30
Methyl tert butyl ether	91		92		66-130	1		30
p/m-Xylene	98		98		70-130	0		30
o-Xylene	98		98		70-130	0		30
cis-1,2-Dichloroethene	89		86		70-130	3		30
Dibromomethane	82		84		70-130	2		30
Styrene	98		98		70-130	0		30
Dichlorodifluoromethane	94		95		30-146	1		30
Acetone	90		89		54-140	1		30
Carbon disulfide	84		84		59-130	0		30
2-Butanone	88		91		70-130	3		30
Vinyl acetate	76		**60**	Q	70-130	24		30
4-Methyl-2-pentanone	96		101		70-130	5		30
1,2,3-Trichloropropane	97		98		68-130	1		30
2-Hexanone	101		106		70-130	5		30
Bromochloromethane	83		82		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 31,44,49,58 Batch: WG1799615-3 WG1799615-4								
2,2-Dichloropropane	82		82		70-130	0		30
1,2-Dibromoethane	93		93		70-130	0		30
1,3-Dichloropropane	96		96		69-130	0		30
1,1,1,2-Tetrachloroethane	93		93		70-130	0		30
Bromobenzene	94		94		70-130	0		30
n-Butylbenzene	109		108		70-130	1		30
sec-Butylbenzene	109		109		70-130	0		30
tert-Butylbenzene	103		104		70-130	1		30
o-Chlorotoluene	105		105		70-130	0		30
p-Chlorotoluene	106		106		70-130	0		30
1,2-Dibromo-3-chloropropane	77		82		68-130	6		30
Hexachlorobutadiene	92		100		67-130	8		30
Isopropylbenzene	110		106		70-130	4		30
p-Isopropyltoluene	105		105		70-130	0		30
Naphthalene	95		100		70-130	5		30
Acrylonitrile	98		95		70-130	3		30
n-Propylbenzene	110		110		70-130	0		30
1,2,3-Trichlorobenzene	81		86		70-130	6		30
1,2,4-Trichlorobenzene	96		101		70-130	5		30
1,3,5-Trimethylbenzene	106		106		70-130	0		30
1,2,4-Trimethylbenzene	106		106		70-130	0		30
1,4-Dioxane	78		79		65-136	1		30
p-Diethylbenzene	106		106		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 31,44,49,58 Batch: WG1799615-3 WG1799615-4								
p-Ethyltoluene	108		108		70-130	0		30
1,2,4,5-Tetramethylbenzene	106		112		70-130	6		30
Ethyl ether	94		95		67-130	1		30
trans-1,4-Dichloro-2-butene	109		108		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		91		70-130
Toluene-d8	100		104		70-130
4-Bromofluorobenzene	111		111		70-130
Dibromofluoromethane	88		87		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29-30 Batch: WG1799618-3 WG1799618-4								
Methylene chloride	83		83		70-130	0		30
1,1-Dichloroethane	97		96		70-130	1		30
Chloroform	88		88		70-130	0		30
Carbon tetrachloride	79		79		70-130	0		30
1,2-Dichloropropane	94		96		70-130	2		30
Dibromochloromethane	90		90		70-130	0		30
1,1,2-Trichloroethane	94		98		70-130	4		30
Tetrachloroethene	92		91		70-130	1		30
Chlorobenzene	96		95		70-130	1		30
Trichlorofluoromethane	85		82		70-139	4		30
1,2-Dichloroethane	88		87		70-130	1		30
1,1,1-Trichloroethane	89		88		70-130	1		30
Bromodichloromethane	86		89		70-130	3		30
trans-1,3-Dichloropropene	89		94		70-130	5		30
cis-1,3-Dichloropropene	88		88		70-130	0		30
1,1-Dichloropropene	97		97		70-130	0		30
Bromoform	84		82		70-130	2		30
1,1,2,2-Tetrachloroethane	103		99		70-130	4		30
Benzene	92		92		70-130	0		30
Toluene	94		99		70-130	5		30
Ethylbenzene	102		102		70-130	0		30
Chloromethane	106		107		52-130	1		30
Bromomethane	92		90		57-147	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29-30 Batch: WG1799618-3 WG1799618-4								
Vinyl chloride	99		99		67-130	0		30
Chloroethane	102		99		50-151	3		30
1,1-Dichloroethene	89		90		65-135	1		30
trans-1,2-Dichloroethene	89		89		70-130	0		30
Trichloroethene	91		97		70-130	6		30
1,2-Dichlorobenzene	96		96		70-130	0		30
1,3-Dichlorobenzene	97		97		70-130	0		30
1,4-Dichlorobenzene	96		96		70-130	0		30
Methyl tert butyl ether	91		92		66-130	1		30
p/m-Xylene	98		98		70-130	0		30
o-Xylene	98		98		70-130	0		30
cis-1,2-Dichloroethene	89		86		70-130	3		30
Dibromomethane	82		84		70-130	2		30
Styrene	98		98		70-130	0		30
Dichlorodifluoromethane	94		95		30-146	1		30
Acetone	90		89		54-140	1		30
Carbon disulfide	84		84		59-130	0		30
2-Butanone	88		91		70-130	3		30
Vinyl acetate	76		**60**	Q	70-130	24		30
4-Methyl-2-pentanone	96		101		70-130	5		30
1,2,3-Trichloropropane	97		98		68-130	1		30
2-Hexanone	101		106		70-130	5		30
Bromochloromethane	83		82		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29-30 Batch: WG1799618-3 WG1799618-4								
2,2-Dichloropropane	82		82		70-130	0		30
1,2-Dibromoethane	93		93		70-130	0		30
1,3-Dichloropropane	96		96		69-130	0		30
1,1,1,2-Tetrachloroethane	93		93		70-130	0		30
Bromobenzene	94		94		70-130	0		30
n-Butylbenzene	109		108		70-130	1		30
sec-Butylbenzene	109		109		70-130	0		30
tert-Butylbenzene	103		104		70-130	1		30
o-Chlorotoluene	105		105		70-130	0		30
p-Chlorotoluene	106		106		70-130	0		30
1,2-Dibromo-3-chloropropane	77		82		68-130	6		30
Hexachlorobutadiene	92		100		67-130	8		30
Isopropylbenzene	110		106		70-130	4		30
p-Isopropyltoluene	105		105		70-130	0		30
Naphthalene	95		100		70-130	5		30
Acrylonitrile	98		95		70-130	3		30
n-Propylbenzene	110		110		70-130	0		30
1,2,3-Trichlorobenzene	81		86		70-130	6		30
1,2,4-Trichlorobenzene	96		101		70-130	5		30
1,3,5-Trimethylbenzene	106		106		70-130	0		30
1,2,4-Trimethylbenzene	106		106		70-130	0		30
1,4-Dioxane	78		79		65-136	1		30
p-Diethylbenzene	106		106		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29-30 Batch: WG1799618-3 WG1799618-4								
p-Ethyltoluene	108		108		70-130	0		30
1,2,4,5-Tetramethylbenzene	106		112		70-130	6		30
Ethyl ether	94		95		67-130	1		30
trans-1,4-Dichloro-2-butene	109		108		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		91		70-130
Toluene-d8	100		104		70-130
4-Bromofluorobenzene	111		111		70-130
Dibromofluoromethane	88		87		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 50,59 Batch: WG1799631-3 WG1799631-4								
Methylene chloride	92		90		70-130	2		30
1,1-Dichloroethane	100		97		70-130	3		30
Chloroform	95		94		70-130	1		30
Carbon tetrachloride	104		102		70-130	2		30
1,2-Dichloropropane	94		95		70-130	1		30
Dibromochloromethane	100		101		70-130	1		30
1,1,2-Trichloroethane	105		108		70-130	3		30
Tetrachloroethene	106		106		70-130	0		30
Chlorobenzene	100		102		70-130	2		30
Trichlorofluoromethane	108		104		70-139	4		30
1,2-Dichloroethane	96		96		70-130	0		30
1,1,1-Trichloroethane	95		95		70-130	0		30
Bromodichloromethane	96		97		70-130	1		30
trans-1,3-Dichloropropene	108		112		70-130	4		30
cis-1,3-Dichloropropene	99		102		70-130	3		30
1,1-Dichloropropene	102		100		70-130	2		30
Bromoform	87		90		70-130	3		30
1,1,2,2-Tetrachloroethane	107		109		70-130	2		30
Benzene	97		96		70-130	1		30
Toluene	99		103		70-130	4		30
Ethylbenzene	100		103		70-130	3		30
Chloromethane	111		104		52-130	7		30
Bromomethane	98		99		57-147	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 50,59 Batch: WG1799631-3 WG1799631-4								
Vinyl chloride	113		108		67-130	5		30
Chloroethane	109		103		50-151	6		30
1,1-Dichloroethene	98		95		65-135	3		30
trans-1,2-Dichloroethene	97		94		70-130	3		30
Trichloroethene	95		93		70-130	2		30
1,2-Dichlorobenzene	102		102		70-130	0		30
1,3-Dichlorobenzene	107		107		70-130	0		30
1,4-Dichlorobenzene	106		107		70-130	1		30
Methyl tert butyl ether	102		102		66-130	0		30
p/m-Xylene	99		103		70-130	4		30
o-Xylene	100		103		70-130	3		30
cis-1,2-Dichloroethene	93		90		70-130	3		30
Dibromomethane	95		94		70-130	1		30
Styrene	103		106		70-130	3		30
Dichlorodifluoromethane	107		100		30-146	7		30
Acetone	102		100		54-140	2		30
Carbon disulfide	102		96		59-130	6		30
2-Butanone	95		90		70-130	5		30
Vinyl acetate	104		110		70-130	6		30
4-Methyl-2-pentanone	98		100		70-130	2		30
1,2,3-Trichloropropane	102		102		68-130	0		30
2-Hexanone	98		98		70-130	0		30
Bromochloromethane	89		89		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 50,59 Batch: WG1799631-3 WG1799631-4								
2,2-Dichloropropane	99		96		70-130	3		30
1,2-Dibromoethane	99		104		70-130	5		30
1,3-Dichloropropane	102		106		69-130	4		30
1,1,1,2-Tetrachloroethane	102		106		70-130	4		30
Bromobenzene	101		100		70-130	1		30
n-Butylbenzene	121		121		70-130	0		30
sec-Butylbenzene	107		106		70-130	1		30
tert-Butylbenzene	100		101		70-130	1		30
o-Chlorotoluene	104		102		70-130	2		30
p-Chlorotoluene	105		105		70-130	0		30
1,2-Dibromo-3-chloropropane	88		88		68-130	0		30
Hexachlorobutadiene	107		105		67-130	2		30
Isopropylbenzene	98		101		70-130	3		30
p-Isopropyltoluene	105		106		70-130	1		30
Naphthalene	96		96		70-130	0		30
Acrylonitrile	99		103		70-130	4		30
n-Propylbenzene	110		109		70-130	1		30
1,2,3-Trichlorobenzene	105		104		70-130	1		30
1,2,4-Trichlorobenzene	108		108		70-130	0		30
1,3,5-Trimethylbenzene	101		101		70-130	0		30
1,2,4-Trimethylbenzene	102		103		70-130	1		30
1,4-Dioxane	85		89		65-136	5		30
p-Diethylbenzene	107		109		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 50,59 Batch: WG1799631-3 WG1799631-4								
p-Ethyltoluene	104		103		70-130	1		30
1,2,4,5-Tetramethylbenzene	103		100		70-130	3		30
Ethyl ether	114		110		67-130	4		30
trans-1,4-Dichloro-2-butene	120		118		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	101		96		70-130
Dibromofluoromethane	94		92		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29 Batch: WG1799762-3 WG1799762-4								
Methylene chloride	92		90		70-130	2		30
1,1-Dichloroethane	100		97		70-130	3		30
Chloroform	95		94		70-130	1		30
Carbon tetrachloride	104		102		70-130	2		30
1,2-Dichloropropane	94		95		70-130	1		30
Dibromochloromethane	100		101		70-130	1		30
1,1,2-Trichloroethane	105		108		70-130	3		30
Tetrachloroethene	106		106		70-130	0		30
Chlorobenzene	100		102		70-130	2		30
Trichlorofluoromethane	108		104		70-139	4		30
1,2-Dichloroethane	96		96		70-130	0		30
1,1,1-Trichloroethane	95		95		70-130	0		30
Bromodichloromethane	96		97		70-130	1		30
trans-1,3-Dichloropropene	108		112		70-130	4		30
cis-1,3-Dichloropropene	99		102		70-130	3		30
1,1-Dichloropropene	102		100		70-130	2		30
Bromoform	87		90		70-130	3		30
1,1,2,2-Tetrachloroethane	107		109		70-130	2		30
Benzene	97		96		70-130	1		30
Toluene	99		103		70-130	4		30
Ethylbenzene	100		103		70-130	3		30
Chloromethane	111		104		52-130	7		30
Bromomethane	98		99		57-147	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29 Batch: WG1799762-3 WG1799762-4								
Vinyl chloride	113		108		67-130	5		30
Chloroethane	109		103		50-151	6		30
1,1-Dichloroethene	98		95		65-135	3		30
trans-1,2-Dichloroethene	97		94		70-130	3		30
Trichloroethene	95		93		70-130	2		30
1,2-Dichlorobenzene	102		102		70-130	0		30
1,3-Dichlorobenzene	107		107		70-130	0		30
1,4-Dichlorobenzene	106		107		70-130	1		30
Methyl tert butyl ether	102		102		66-130	0		30
p/m-Xylene	99		103		70-130	4		30
o-Xylene	100		103		70-130	3		30
cis-1,2-Dichloroethene	93		90		70-130	3		30
Dibromomethane	95		94		70-130	1		30
Styrene	103		106		70-130	3		30
Dichlorodifluoromethane	107		100		30-146	7		30
Acetone	102		100		54-140	2		30
Carbon disulfide	102		96		59-130	6		30
2-Butanone	95		90		70-130	5		30
Vinyl acetate	104		110		70-130	6		30
4-Methyl-2-pentanone	98		100		70-130	2		30
1,2,3-Trichloropropane	102		102		68-130	0		30
2-Hexanone	98		98		70-130	0		30
Bromochloromethane	89		89		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29 Batch: WG1799762-3 WG1799762-4								
2,2-Dichloropropane	99		96		70-130	3		30
1,2-Dibromoethane	99		104		70-130	5		30
1,3-Dichloropropane	102		106		69-130	4		30
1,1,1,2-Tetrachloroethane	102		106		70-130	4		30
Bromobenzene	101		100		70-130	1		30
n-Butylbenzene	121		121		70-130	0		30
sec-Butylbenzene	107		106		70-130	1		30
tert-Butylbenzene	100		101		70-130	1		30
o-Chlorotoluene	104		102		70-130	2		30
p-Chlorotoluene	105		105		70-130	0		30
1,2-Dibromo-3-chloropropane	88		88		68-130	0		30
Hexachlorobutadiene	107		105		67-130	2		30
Isopropylbenzene	98		101		70-130	3		30
p-Isopropyltoluene	105		106		70-130	1		30
Naphthalene	96		96		70-130	0		30
Acrylonitrile	99		103		70-130	4		30
n-Propylbenzene	110		109		70-130	1		30
1,2,3-Trichlorobenzene	105		104		70-130	1		30
1,2,4-Trichlorobenzene	108		108		70-130	0		30
1,3,5-Trimethylbenzene	101		101		70-130	0		30
1,2,4-Trimethylbenzene	102		103		70-130	1		30
1,4-Dioxane	85		89		65-136	5		30
p-Diethylbenzene	107		109		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29 Batch: WG1799762-3 WG1799762-4								
p-Ethyltoluene	104		103		70-130	1		30
1,2,4,5-Tetramethylbenzene	103		100		70-130	3		30
Ethyl ether	114		110		67-130	4		30
trans-1,4-Dichloro-2-butene	120		118		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	101		97		70-130
Dibromofluoromethane	94		92		70-130

METALS

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-01
Client ID: 8B-1N-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 12:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3.79		mg/l	0.0100	0.00327	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Antimony, Total	0.06677		mg/l	0.00400	0.00042	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.02465		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Barium, Total	0.3991		mg/l	0.00050	0.00017	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Beryllium, Total	0.00024	J	mg/l	0.00050	0.00010	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Cadmium, Total	0.00058		mg/l	0.00020	0.00005	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Calcium, Total	600.		mg/l	0.500	0.197	5	06/26/23 22:00	06/29/23 16:54	EPA 3005A	1,6020B	EJF
Chromium, Total	0.1117		mg/l	0.00100	0.00017	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.00648		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Copper, Total	0.2196		mg/l	0.00100	0.00038	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Iron, Total	21.4		mg/l	0.0500	0.0191	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Lead, Total	0.4225		mg/l	0.00100	0.00034	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Magnesium, Total	18.8		mg/l	0.0700	0.0242	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Manganese, Total	0.8286		mg/l	0.00100	0.00044	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Mercury, Total	0.1222		mg/l	0.00400	0.00183	20	06/27/23 00:15	06/28/23 17:09	EPA 7470A	1,7470A	DMB
Nickel, Total	0.09396		mg/l	0.00200	0.00055	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Potassium, Total	16.3		mg/l	0.100	0.0309	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Selenium, Total	0.00400	J	mg/l	0.00500	0.00173	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Silver, Total	0.00146		mg/l	0.00040	0.00016	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Sodium, Total	51.2		mg/l	0.100	0.0293	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Thallium, Total	0.00020	J	mg/l	0.00100	0.00014	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Vanadium, Total	0.01825		mg/l	0.00500	0.00157	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Zinc, Total	0.4463		mg/l	0.01000	0.00341	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0173		mg/l	0.0100	0.00327	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.04901		mg/l	0.00400	0.00042	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.01360		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.1843		mg/l	0.00050	0.00017	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-01
Client ID: 8B-1N-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/20/23 12:00
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	450.		mg/l	0.500	0.197	5	06/27/23 11:33	06/30/23 08:10	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.00577		mg/l	0.00100	0.00017	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00058		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00093	J	mg/l	0.00100	0.00038	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Iron, Dissolved	0.310		mg/l	0.0500	0.0191	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Lead, Dissolved	0.00091	J	mg/l	0.00100	0.00034	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	16.5		mg/l	0.0700	0.0242	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	0.5790		mg/l	0.00100	0.00044	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/27/23 13:02	06/28/23 16:36	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00737		mg/l	0.00200	0.00055	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	14.1		mg/l	0.100	0.0309	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	51.2		mg/l	0.100	0.0293	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	0.00157	J	mg/l	0.00500	0.00157	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-02
Client ID: 8B-1NN-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	37.0		mg/l	0.0500	0.0164	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Antimony, Total	0.2301		mg/l	0.02000	0.00214	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.1597		mg/l	0.00250	0.00082	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Barium, Total	1.727		mg/l	0.00250	0.00086	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Beryllium, Total	0.00287		mg/l	0.00250	0.00053	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Cadmium, Total	0.00397		mg/l	0.00100	0.00029	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Calcium, Total	571.		mg/l	0.500	0.197	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Chromium, Total	0.1440		mg/l	0.00500	0.00089	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Cobalt, Total	0.03714		mg/l	0.00250	0.00081	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Copper, Total	3.076		mg/l	0.00500	0.00192	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Iron, Total	164.		mg/l	0.250	0.0955	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Lead, Total	3.593		mg/l	0.00500	0.00171	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Magnesium, Total	29.8		mg/l	0.350	0.121	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Manganese, Total	2.815		mg/l	0.00500	0.00220	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Mercury, Total	3.283		mg/l	0.2000	0.09150	1000	07/10/23 12:00	07/11/23 18:49	EPA 245.1	1,7470A	DMB
Nickel, Total	0.1019		mg/l	0.01000	0.00278	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Potassium, Total	19.9		mg/l	0.500	0.154	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Selenium, Total	ND		mg/l	0.0250	0.00865	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00200	0.00081	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Sodium, Total	42.8		mg/l	0.500	0.146	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Thallium, Total	0.00231	J	mg/l	0.00500	0.00071	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Vanadium, Total	0.1307		mg/l	0.02500	0.00785	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Zinc, Total	1.831		mg/l	0.05000	0.01705	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.115		mg/l	0.0100	0.00327	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Antimony, Dissolved	0.1263		mg/l	0.00400	0.00042	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Arsenic, Dissolved	0.01061		mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Barium, Dissolved	0.1650		mg/l	0.00050	0.00017	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-02
Client ID: 8B-1NN-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Calcium, Dissolved	402.		mg/l	0.100	0.0394	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Chromium, Dissolved	0.00098	J	mg/l	0.00100	0.00017	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Cobalt, Dissolved	0.00044	J	mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Copper, Dissolved	0.00687		mg/l	0.00100	0.00038	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Iron, Dissolved	0.247		mg/l	0.0500	0.0191	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Lead, Dissolved	0.01050		mg/l	0.00100	0.00034	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Magnesium, Dissolved	13.4		mg/l	0.0700	0.0242	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Manganese, Dissolved	0.2902		mg/l	0.00100	0.00044	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Mercury, Dissolved	0.00065		mg/l	0.00020	0.00009	1	07/10/23 20:18	07/12/23 18:43	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.00355		mg/l	0.00200	0.00055	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Potassium, Dissolved	19.1		mg/l	0.100	0.0309	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Sodium, Dissolved	43.9		mg/l	0.100	0.0293	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Vanadium, Dissolved	0.00620		mg/l	0.00500	0.00157	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Zinc, Dissolved	0.00563	J	mg/l	0.01000	0.00341	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-03
Client ID: 8B-1E-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 13:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5.24		mg/l	0.0100	0.00327	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Antimony, Total	0.05390		mg/l	0.00400	0.00042	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.02858		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Barium, Total	0.4205		mg/l	0.00050	0.00017	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Beryllium, Total	0.00025	J	mg/l	0.00050	0.00010	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Cadmium, Total	0.00040		mg/l	0.00020	0.00005	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Calcium, Total	332.		mg/l	0.100	0.0394	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Chromium, Total	0.05534		mg/l	0.00100	0.00017	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.00458		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Copper, Total	0.1387		mg/l	0.00100	0.00038	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Iron, Total	12.8		mg/l	0.0500	0.0191	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Lead, Total	0.3998		mg/l	0.00100	0.00034	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Magnesium, Total	14.8		mg/l	0.0700	0.0242	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Manganese, Total	0.9415		mg/l	0.00100	0.00044	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Mercury, Total	0.01565		mg/l	0.00100	0.00045	5	06/27/23 00:15	06/28/23 16:17	EPA 7470A	1,7470A	DMB
Nickel, Total	0.02465		mg/l	0.00200	0.00055	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Potassium, Total	23.4		mg/l	0.100	0.0309	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Selenium, Total	0.00473	J	mg/l	0.00500	0.00173	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Silver, Total	0.00075		mg/l	0.00040	0.00016	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Sodium, Total	77.4		mg/l	0.100	0.0293	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Thallium, Total	0.00021	J	mg/l	0.00100	0.00014	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Vanadium, Total	0.01793		mg/l	0.00500	0.00157	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Zinc, Total	0.1732		mg/l	0.01000	0.00341	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0392		mg/l	0.0100	0.00327	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.03961		mg/l	0.00400	0.00042	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.01112		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.2128		mg/l	0.00050	0.00017	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-03
Client ID: 8B-1E-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/20/23 13:00
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	269.		mg/l	0.100	0.0394	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.00230		mg/l	0.00100	0.00017	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00098		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00108		mg/l	0.00100	0.00038	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Iron, Dissolved	0.116		mg/l	0.0500	0.0191	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Lead, Dissolved	0.00387		mg/l	0.00100	0.00034	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	13.6		mg/l	0.0700	0.0242	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	0.7759		mg/l	0.00100	0.00044	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/27/23 13:02	06/28/23 16:39	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00941		mg/l	0.00200	0.00055	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	23.5		mg/l	0.100	0.0309	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	95.2		mg/l	0.100	0.0293	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	0.00252	J	mg/l	0.00500	0.00157	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	0.00381	J	mg/l	0.01000	0.00341	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-04
Client ID: 8B-1S-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 11:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8.36		mg/l	0.0100	0.00327	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Antimony, Total	0.1181		mg/l	0.00400	0.00042	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.04005		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Barium, Total	0.5630		mg/l	0.00050	0.00017	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Beryllium, Total	0.00055		mg/l	0.00050	0.00010	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Cadmium, Total	0.00416		mg/l	0.00020	0.00005	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Calcium, Total	75.7		mg/l	0.100	0.0394	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Chromium, Total	0.3601		mg/l	0.00100	0.00017	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.01256		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Copper, Total	0.9357		mg/l	0.00100	0.00038	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Iron, Total	55.3		mg/l	0.0500	0.0191	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Lead, Total	0.6933		mg/l	0.00100	0.00034	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Magnesium, Total	8.58		mg/l	0.0700	0.0242	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Manganese, Total	1.088		mg/l	0.00100	0.00044	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Mercury, Total	0.01225		mg/l	0.00040	0.00018	2	06/27/23 00:15	06/28/23 16:29	EPA 7470A	1,7470A	DMB
Nickel, Total	0.03319		mg/l	0.00200	0.00055	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Potassium, Total	18.4		mg/l	0.100	0.0309	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Selenium, Total	0.00772		mg/l	0.00500	0.00173	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Silver, Total	0.00071		mg/l	0.00040	0.00016	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Sodium, Total	28.1		mg/l	0.100	0.0293	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Thallium, Total	0.00033	J	mg/l	0.00100	0.00014	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Vanadium, Total	0.03615		mg/l	0.00500	0.00157	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Zinc, Total	1.866		mg/l	0.1000	0.03410	10	06/26/23 22:00	06/29/23 20:22	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0162		mg/l	0.0100	0.00327	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.03616		mg/l	0.00400	0.00042	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.00352		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.06875		mg/l	0.00050	0.00017	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-04
Client ID: 8B-1S-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/20/23 11:00
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	64.6		mg/l	0.100	0.0394	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.00061	J	mg/l	0.00100	0.00017	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00083		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00093	J	mg/l	0.00100	0.00038	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Iron, Dissolved	0.0920		mg/l	0.0500	0.0191	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Lead, Dissolved	0.00065	J	mg/l	0.00100	0.00034	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	6.27		mg/l	0.0700	0.0242	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	0.4841		mg/l	0.00100	0.00044	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/27/23 13:02	06/28/23 16:42	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00495		mg/l	0.00200	0.00055	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	17.5		mg/l	0.100	0.0309	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	29.1		mg/l	0.100	0.0293	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	0.00806	J	mg/l	0.01000	0.00341	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-05
Client ID: 8B-1SS-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/20/23 10:00
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6.29		mg/l	0.0100	0.00327	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Antimony, Total	0.4123		mg/l	0.04000	0.00429	10	07/10/23 11:02	07/18/23 16:32	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.03312		mg/l	0.00050	0.00016	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Barium, Total	0.4913		mg/l	0.00050	0.00017	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Beryllium, Total	0.00048	J	mg/l	0.00050	0.00010	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Cadmium, Total	0.00106		mg/l	0.00020	0.00005	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Calcium, Total	94.0		mg/l	0.100	0.0394	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Chromium, Total	0.1951		mg/l	0.00100	0.00017	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Cobalt, Total	0.00700		mg/l	0.00050	0.00016	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Copper, Total	0.8158		mg/l	0.00100	0.00038	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Iron, Total	41.6		mg/l	0.0500	0.0191	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Lead, Total	0.7143		mg/l	0.00100	0.00034	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Magnesium, Total	10.5		mg/l	0.0700	0.0242	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Manganese, Total	0.9946		mg/l	0.00100	0.00044	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Mercury, Total	0.01220		mg/l	0.00040	0.00018	2	07/10/23 12:00	07/11/23 18:28	EPA 245.1	1,7470A	DMB
Nickel, Total	0.02605		mg/l	0.00200	0.00055	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Potassium, Total	21.0		mg/l	0.100	0.0309	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Silver, Total	0.00055		mg/l	0.00040	0.00016	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Sodium, Total	36.0		mg/l	0.100	0.0293	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Thallium, Total	0.00028	J	mg/l	0.00100	0.00014	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Vanadium, Total	0.02838		mg/l	0.00500	0.00157	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Zinc, Total	0.5551		mg/l	0.01000	0.00341	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0127		mg/l	0.0100	0.00327	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Antimony, Dissolved	0.07037		mg/l	0.00400	0.00042	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Arsenic, Dissolved	0.00506		mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Barium, Dissolved	0.09087		mg/l	0.00050	0.00017	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-05 Date Collected: 06/20/23 10:00

Client ID: 8B-1SS-GW Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Calcium, Dissolved	103.		mg/l	0.100	0.0394	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Chromium, Dissolved	0.00035	J	mg/l	0.00100	0.00017	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Cobalt, Dissolved	0.00052		mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Copper, Dissolved	0.00040	J	mg/l	0.00100	0.00038	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Iron, Dissolved	0.0676		mg/l	0.0500	0.0191	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Magnesium, Dissolved	8.89		mg/l	0.0700	0.0242	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Manganese, Dissolved	0.6527		mg/l	0.00100	0.00044	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	07/10/23 20:18	07/12/23 18:13	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.00460		mg/l	0.00200	0.00055	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Potassium, Dissolved	24.3		mg/l	0.100	0.0309	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Sodium, Dissolved	38.0		mg/l	0.100	0.0293	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-06
Client ID: 8B-1W-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1.21		mg/l	0.0100	0.00327	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Antimony, Total	2.134		mg/l	0.00400	0.00042	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.01964		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Barium, Total	0.4229		mg/l	0.00050	0.00017	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Cadmium, Total	0.00041		mg/l	0.00020	0.00005	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Calcium, Total	463.		mg/l	0.500	0.197	5	06/26/23 22:00	06/29/23 17:00	EPA 3005A	1,6020B	EJF
Chromium, Total	0.01682		mg/l	0.00100	0.00017	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.00178		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Copper, Total	0.09192		mg/l	0.00100	0.00038	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Iron, Total	10.8		mg/l	0.0500	0.0191	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Lead, Total	0.5089		mg/l	0.00100	0.00034	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Magnesium, Total	20.1		mg/l	0.0700	0.0242	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Manganese, Total	0.8157		mg/l	0.00100	0.00044	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Mercury, Total	0.03980		mg/l	0.00400	0.00183	20	06/27/23 00:15	06/28/23 17:12	EPA 7470A	1,7470A	DMB
Nickel, Total	0.00614		mg/l	0.00200	0.00055	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Potassium, Total	16.5		mg/l	0.100	0.0309	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Sodium, Total	48.8		mg/l	0.100	0.0293	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Thallium, Total	0.00029	J	mg/l	0.00100	0.00014	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Vanadium, Total	0.00592		mg/l	0.00500	0.00157	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Zinc, Total	0.1562		mg/l	0.01000	0.00341	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0167		mg/l	0.0100	0.00327	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.1757		mg/l	0.00400	0.00042	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.01227		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.2432		mg/l	0.00050	0.00017	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-06
Client ID: 8B-1W-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/20/23 09:15
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	448.		mg/l	0.100	0.0394	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.00680		mg/l	0.00100	0.00017	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00021	J	mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00055	J	mg/l	0.00100	0.00038	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Iron, Dissolved	2.14		mg/l	0.0500	0.0191	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Lead, Dissolved	0.00089	J	mg/l	0.00100	0.00034	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	21.1		mg/l	0.0700	0.0242	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	0.8782		mg/l	0.00100	0.00044	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/27/23 13:02	06/28/23 16:46	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00247		mg/l	0.00200	0.00055	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	16.7		mg/l	0.100	0.0309	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	52.7		mg/l	0.100	0.0293	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-07
Client ID: 8B-1WW-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.376		mg/l	0.0100	0.00327	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Antimony, Total	0.00582		mg/l	0.00400	0.00042	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.1321		mg/l	0.00050	0.00016	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Barium, Total	0.3184		mg/l	0.00050	0.00017	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Cadmium, Total	0.00006	J	mg/l	0.00020	0.00005	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Calcium, Total	322.		mg/l	0.100	0.0394	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Chromium, Total	0.01391		mg/l	0.00100	0.00017	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Cobalt, Total	0.00051		mg/l	0.00050	0.00016	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Copper, Total	0.01785		mg/l	0.00100	0.00038	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Iron, Total	3.56		mg/l	0.0500	0.0191	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Lead, Total	0.05407		mg/l	0.00100	0.00034	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Magnesium, Total	11.6		mg/l	0.0700	0.0242	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Manganese, Total	0.6437		mg/l	0.00100	0.00044	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00357		mg/l	0.00020	0.00009	1	07/10/23 12:00	07/11/23 17:08	EPA 245.1	1,7470A	DMB
Nickel, Total	0.00302		mg/l	0.00200	0.00055	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Potassium, Total	21.4		mg/l	0.100	0.0309	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Sodium, Total	38.7		mg/l	0.100	0.0293	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Vanadium, Total	0.00170	J	mg/l	0.00500	0.00157	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Zinc, Total	0.04376		mg/l	0.01000	0.00341	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00838	J	mg/l	0.0100	0.00327	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Antimony, Dissolved	0.00428		mg/l	0.00400	0.00042	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Arsenic, Dissolved	0.1243		mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Barium, Dissolved	0.2627		mg/l	0.00050	0.00017	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-07
Client ID: 8B-1WW-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Calcium, Dissolved	264.		mg/l	0.100	0.0394	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Chromium, Dissolved	0.00178		mg/l	0.00100	0.00017	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Cobalt, Dissolved	0.00019	J	mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Copper, Dissolved	0.00073	J	mg/l	0.00100	0.00038	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Iron, Dissolved	0.0896		mg/l	0.0500	0.0191	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Magnesium, Dissolved	11.2		mg/l	0.0700	0.0242	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Manganese, Dissolved	0.5799		mg/l	0.00100	0.00044	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	07/10/23 20:18	07/12/23 18:16	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.00190	J	mg/l	0.00200	0.00055	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Potassium, Dissolved	21.4		mg/l	0.100	0.0309	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Sodium, Dissolved	37.4		mg/l	0.100	0.0293	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-08
Client ID: 8B-1N (5.0-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 11:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9170		mg/kg	10.2	2.74	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Antimony, Total	5.84		mg/kg	5.08	0.386	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Arsenic, Total	21.3		mg/kg	1.02	0.211	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Barium, Total	501		mg/kg	1.02	0.177	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.856		mg/kg	0.508	0.034	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Cadmium, Total	0.554	J	mg/kg	1.02	0.100	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Calcium, Total	20200		mg/kg	10.2	3.55	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Chromium, Total	47.6		mg/kg	1.02	0.098	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Cobalt, Total	8.15		mg/kg	2.03	0.168	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Copper, Total	280		mg/kg	1.02	0.262	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Iron, Total	31400		mg/kg	5.08	0.917	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Lead, Total	407		mg/kg	5.08	0.272	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Magnesium, Total	5750		mg/kg	10.2	1.56	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Manganese, Total	731		mg/kg	1.02	0.161	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Mercury, Total	1.22		mg/kg	0.083	0.054	1	06/27/23 07:05	06/29/23 10:08	EPA 7471B	1,7471B	DMB
Nickel, Total	18.0		mg/kg	2.54	0.246	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Potassium, Total	972		mg/kg	254	14.6	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Selenium, Total	1.35	J	mg/kg	2.03	0.262	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.508	0.287	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Sodium, Total	458		mg/kg	203	3.20	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Thallium, Total	0.993	J	mg/kg	2.03	0.320	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Vanadium, Total	39.6		mg/kg	1.02	0.206	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Zinc, Total	227		mg/kg	5.08	0.298	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-09
Client ID: 8B-1NN (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 12:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4490		mg/kg	8.95	2.42	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Antimony, Total	5.94		mg/kg	4.48	0.340	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Arsenic, Total	22.0		mg/kg	0.895	0.186	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Barium, Total	105		mg/kg	0.895	0.156	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.368	J	mg/kg	0.448	0.030	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Cadmium, Total	1.61		mg/kg	0.895	0.088	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Calcium, Total	3470		mg/kg	8.95	3.13	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Chromium, Total	17.2		mg/kg	0.895	0.086	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Cobalt, Total	7.78		mg/kg	1.79	0.149	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Copper, Total	216		mg/kg	0.895	0.231	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Iron, Total	16300		mg/kg	4.48	0.808	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Lead, Total	459		mg/kg	4.48	0.240	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Magnesium, Total	1410		mg/kg	8.95	1.38	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Manganese, Total	375		mg/kg	0.895	0.142	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Mercury, Total	1.41		mg/kg	0.073	0.047	1	07/08/23 10:40	07/10/23 13:48	EPA 7471B	1,7471B	DMB
Nickel, Total	20.1		mg/kg	2.24	0.217	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Potassium, Total	474		mg/kg	224	12.9	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Selenium, Total	2.13		mg/kg	1.79	0.231	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Silver, Total	0.705		mg/kg	0.448	0.253	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Sodium, Total	196		mg/kg	179	2.82	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Thallium, Total	ND		mg/kg	1.79	0.282	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Vanadium, Total	24.6		mg/kg	0.895	0.182	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Zinc, Total	447		mg/kg	4.48	0.262	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-10
Client ID: 8B-1NN (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 12:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5550		mg/kg	8.46	2.28	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Antimony, Total	10.2		mg/kg	4.23	0.321	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Arsenic, Total	10.8		mg/kg	0.846	0.176	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Barium, Total	182		mg/kg	0.846	0.147	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.391	J	mg/kg	0.423	0.028	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Cadmium, Total	0.793	J	mg/kg	0.846	0.083	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Calcium, Total	7920		mg/kg	8.46	2.96	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Chromium, Total	18.3		mg/kg	0.846	0.081	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Cobalt, Total	11.4		mg/kg	1.69	0.140	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Copper, Total	128		mg/kg	0.846	0.218	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Iron, Total	20500		mg/kg	4.23	0.764	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Lead, Total	620		mg/kg	4.23	0.227	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Magnesium, Total	4040		mg/kg	8.46	1.30	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Manganese, Total	236		mg/kg	0.846	0.134	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Mercury, Total	2.45		mg/kg	0.070	0.045	1	07/08/23 10:40	07/10/23 14:01	EPA 7471B	1,7471B	DMB
Nickel, Total	20.5		mg/kg	2.11	0.205	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Potassium, Total	767		mg/kg	211	12.2	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Selenium, Total	0.706	J	mg/kg	1.69	0.218	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Silver, Total	ND		mg/kg	0.423	0.239	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Sodium, Total	327		mg/kg	169	2.66	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Thallium, Total	0.276	J	mg/kg	1.69	0.266	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Vanadium, Total	24.8		mg/kg	0.846	0.172	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Zinc, Total	416		mg/kg	4.23	0.248	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-11
Client ID: 8B-1NN (6.0-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 12:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5070		mg/kg	8.54	2.31	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Antimony, Total	5.82		mg/kg	4.27	0.324	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Arsenic, Total	9.91		mg/kg	0.854	0.178	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Barium, Total	43.6		mg/kg	0.854	0.149	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.236	J	mg/kg	0.427	0.028	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Cadmium, Total	0.491	J	mg/kg	0.854	0.084	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Calcium, Total	2630		mg/kg	8.54	2.99	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Chromium, Total	19.0		mg/kg	0.854	0.082	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Cobalt, Total	5.06		mg/kg	1.71	0.142	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Copper, Total	80.9		mg/kg	0.854	0.220	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Iron, Total	32200		mg/kg	4.27	0.771	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Lead, Total	81.4		mg/kg	4.27	0.229	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Magnesium, Total	957		mg/kg	8.54	1.32	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Manganese, Total	477		mg/kg	0.854	0.136	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Mercury, Total	0.583		mg/kg	0.071	0.047	1	07/08/23 10:40	07/10/23 14:04	EPA 7471B	1,7471B	DMB
Nickel, Total	17.1		mg/kg	2.14	0.207	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Potassium, Total	394		mg/kg	214	12.3	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Selenium, Total	1.26	J	mg/kg	1.71	0.220	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Silver, Total	ND		mg/kg	0.427	0.242	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Sodium, Total	121	J	mg/kg	171	2.69	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Thallium, Total	ND		mg/kg	1.71	0.269	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Vanadium, Total	27.8		mg/kg	0.854	0.173	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Zinc, Total	139		mg/kg	4.27	0.250	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-12
Client ID: 8B-1E (6.0-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8350		mg/kg	9.49	2.56	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Antimony, Total	1.35	J	mg/kg	4.74	0.360	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Arsenic, Total	4.08		mg/kg	0.949	0.197	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Barium, Total	72.9		mg/kg	0.949	0.165	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.400	J	mg/kg	0.474	0.031	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Cadmium, Total	0.186	J	mg/kg	0.949	0.093	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Calcium, Total	1600		mg/kg	9.49	3.32	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Chromium, Total	22.4		mg/kg	0.949	0.091	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Cobalt, Total	4.99		mg/kg	1.90	0.158	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Copper, Total	51.2		mg/kg	0.949	0.245	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Iron, Total	12400		mg/kg	4.74	0.857	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Lead, Total	86.9		mg/kg	4.74	0.254	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Magnesium, Total	1720		mg/kg	9.49	1.46	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Manganese, Total	93.5		mg/kg	0.949	0.151	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Mercury, Total	1.24		mg/kg	0.078	0.051	1	06/27/23 07:05	06/29/23 10:11	EPA 7471B	1,7471B	DMB
Nickel, Total	11.1		mg/kg	2.37	0.230	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Potassium, Total	659		mg/kg	237	13.7	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Selenium, Total	0.665	J	mg/kg	1.90	0.245	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.474	0.268	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Sodium, Total	132	J	mg/kg	190	2.99	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Thallium, Total	0.326	J	mg/kg	1.90	0.299	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Vanadium, Total	17.0		mg/kg	0.949	0.193	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Zinc, Total	80.1		mg/kg	4.74	0.278	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-13
Client ID: 8B-1S (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:55
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4570		mg/kg	8.46	2.28	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Antimony, Total	4.89		mg/kg	4.23	0.321	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Arsenic, Total	11.4		mg/kg	0.846	0.176	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Barium, Total	173		mg/kg	0.846	0.147	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.398	J	mg/kg	0.423	0.028	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Cadmium, Total	1.23		mg/kg	0.846	0.083	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Calcium, Total	4580		mg/kg	8.46	2.96	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Chromium, Total	22.4		mg/kg	0.846	0.081	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Cobalt, Total	7.41		mg/kg	1.69	0.140	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Copper, Total	102		mg/kg	0.846	0.218	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Iron, Total	21000		mg/kg	4.23	0.764	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Lead, Total	1000		mg/kg	4.23	0.227	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Magnesium, Total	1320		mg/kg	8.46	1.30	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Manganese, Total	225		mg/kg	0.846	0.134	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Mercury, Total	8.29		mg/kg	0.708	0.462	10	06/27/23 07:05	06/29/23 11:00	EPA 7471B	1,7471B	DMB
Nickel, Total	17.6		mg/kg	2.11	0.205	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Potassium, Total	602		mg/kg	211	12.2	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Selenium, Total	1.60	J	mg/kg	1.69	0.218	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.423	0.239	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Sodium, Total	170		mg/kg	169	2.66	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Thallium, Total	0.545	J	mg/kg	1.69	0.266	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Vanadium, Total	18.1		mg/kg	0.846	0.172	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Zinc, Total	290		mg/kg	4.23	0.248	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-14
Client ID: 8B-1S (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7000		mg/kg	9.08	2.45	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Antimony, Total	1.68	J	mg/kg	4.54	0.345	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Arsenic, Total	7.52		mg/kg	0.908	0.189	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Barium, Total	184		mg/kg	0.908	0.158	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.536		mg/kg	0.454	0.030	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Cadmium, Total	0.408	J	mg/kg	0.908	0.089	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Calcium, Total	3590		mg/kg	9.08	3.18	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Chromium, Total	18.9		mg/kg	0.908	0.087	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Cobalt, Total	8.61		mg/kg	1.82	0.151	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Copper, Total	38.4		mg/kg	0.908	0.234	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Iron, Total	22700		mg/kg	4.54	0.820	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Lead, Total	70.2		mg/kg	4.54	0.243	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Magnesium, Total	3030		mg/kg	9.08	1.40	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Manganese, Total	296		mg/kg	0.908	0.144	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Mercury, Total	0.093		mg/kg	0.076	0.049	1	06/27/23 07:05	06/29/23 10:21	EPA 7471B	1,7471B	DMB
Nickel, Total	15.3		mg/kg	2.27	0.220	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Potassium, Total	869		mg/kg	227	13.1	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Selenium, Total	ND		mg/kg	1.82	0.234	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.454	0.257	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Sodium, Total	264		mg/kg	182	2.86	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Thallium, Total	0.635	J	mg/kg	1.82	0.286	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Vanadium, Total	32.1		mg/kg	0.908	0.184	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Zinc, Total	444		mg/kg	4.54	0.266	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-15
Client ID: 8B-1S (6.5-7.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4440		mg/kg	9.38	2.53	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Antimony, Total	4.87		mg/kg	4.69	0.356	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Arsenic, Total	8.14		mg/kg	0.938	0.195	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Barium, Total	170		mg/kg	0.938	0.163	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.390	J	mg/kg	0.469	0.031	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Cadmium, Total	0.639	J	mg/kg	0.938	0.092	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Calcium, Total	19100		mg/kg	9.38	3.28	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Chromium, Total	77.8		mg/kg	0.938	0.090	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Cobalt, Total	5.76		mg/kg	1.88	0.156	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Copper, Total	87.9		mg/kg	0.938	0.242	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Iron, Total	21800		mg/kg	4.69	0.847	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Lead, Total	305		mg/kg	4.69	0.251	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Magnesium, Total	4800		mg/kg	9.38	1.44	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Manganese, Total	200		mg/kg	0.938	0.149	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Mercury, Total	3.55		mg/kg	0.152	0.099	2	06/27/23 07:05	06/29/23 11:03	EPA 7471B	1,7471B	DMB
Nickel, Total	27.1		mg/kg	2.34	0.227	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Potassium, Total	701		mg/kg	234	13.5	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Selenium, Total	0.738	J	mg/kg	1.88	0.242	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.469	0.265	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Sodium, Total	269		mg/kg	188	2.95	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Thallium, Total	0.463	J	mg/kg	1.88	0.295	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Vanadium, Total	18.4		mg/kg	0.938	0.190	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Zinc, Total	249		mg/kg	4.69	0.275	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-16
Client ID: 8B-1SS (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:20
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3700		mg/kg	8.98	2.42	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Antimony, Total	1.79	J	mg/kg	4.49	0.341	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Arsenic, Total	13.6		mg/kg	0.898	0.187	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Barium, Total	62.9		mg/kg	0.898	0.156	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.316	J	mg/kg	0.449	0.030	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Cadmium, Total	0.661	J	mg/kg	0.898	0.088	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Calcium, Total	134000		mg/kg	89.8	31.4	20	07/08/23 09:25	07/16/23 22:42	EPA 3050B	1,6010D	TAA
Chromium, Total	12.2		mg/kg	0.898	0.086	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Cobalt, Total	6.42		mg/kg	1.80	0.149	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Copper, Total	79.6		mg/kg	0.898	0.232	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Iron, Total	14200		mg/kg	4.49	0.811	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Lead, Total	117		mg/kg	4.49	0.241	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Magnesium, Total	6280		mg/kg	8.98	1.38	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Manganese, Total	241		mg/kg	0.898	0.143	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Mercury, Total	0.470		mg/kg	0.072	0.047	1	07/08/23 10:40	07/10/23 14:14	EPA 7471B	1,7471B	DMB
Nickel, Total	16.2		mg/kg	2.24	0.217	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Potassium, Total	477		mg/kg	224	12.9	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Selenium, Total	0.267	J	mg/kg	1.80	0.232	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Silver, Total	ND		mg/kg	0.449	0.254	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Sodium, Total	200		mg/kg	180	2.83	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Thallium, Total	0.422	J	mg/kg	1.80	0.283	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Vanadium, Total	14.5		mg/kg	0.898	0.182	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Zinc, Total	243		mg/kg	4.49	0.263	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-17
Client ID: 8B-1SS (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:25
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4740		mg/kg	10.4	2.80	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Antimony, Total	7.76		mg/kg	5.19	0.394	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Arsenic, Total	27.2		mg/kg	1.04	0.216	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Barium, Total	281		mg/kg	1.04	0.180	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.600		mg/kg	0.519	0.034	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Cadmium, Total	3.14		mg/kg	1.04	0.102	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Calcium, Total	13800		mg/kg	10.4	3.63	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Chromium, Total	38.1		mg/kg	1.04	0.100	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Cobalt, Total	11.3		mg/kg	2.07	0.172	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Copper, Total	382		mg/kg	1.04	0.268	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Iron, Total	38200		mg/kg	5.19	0.937	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Lead, Total	638		mg/kg	5.19	0.278	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Magnesium, Total	1760		mg/kg	10.4	1.60	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Manganese, Total	290		mg/kg	1.04	0.165	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Mercury, Total	30.3		mg/kg	2.18	1.42	25	07/13/23 15:36	07/13/23 22:40	EPA 7471B	1,7471B	GMG
Nickel, Total	54.2		mg/kg	2.59	0.251	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Potassium, Total	617		mg/kg	259	14.9	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Selenium, Total	0.721	J	mg/kg	2.07	0.268	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Silver, Total	0.471	J	mg/kg	0.519	0.294	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Sodium, Total	320		mg/kg	207	3.27	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Thallium, Total	0.733	J	mg/kg	2.07	0.327	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Vanadium, Total	26.5		mg/kg	1.04	0.210	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Zinc, Total	1110		mg/kg	5.19	0.304	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-18
Client ID: 8B-1SS (6.5-7.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5120		mg/kg	8.80	2.38	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Antimony, Total	1.10	J	mg/kg	4.40	0.334	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Arsenic, Total	5.57		mg/kg	0.880	0.183	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Barium, Total	78.4		mg/kg	0.880	0.153	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.336	J	mg/kg	0.440	0.029	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Cadmium, Total	0.438	J	mg/kg	0.880	0.086	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Calcium, Total	10000		mg/kg	8.80	3.08	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Chromium, Total	40.9		mg/kg	0.880	0.085	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Cobalt, Total	5.09		mg/kg	1.76	0.146	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Copper, Total	46.6		mg/kg	0.880	0.227	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Iron, Total	15400		mg/kg	4.40	0.795	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Lead, Total	85.0		mg/kg	4.40	0.236	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Magnesium, Total	4550		mg/kg	8.80	1.36	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Manganese, Total	167		mg/kg	0.880	0.140	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Mercury, Total	1.53		mg/kg	0.073	0.048	1	07/08/23 10:40	07/10/23 14:24	EPA 7471B	1,7471B	DMB
Nickel, Total	14.0		mg/kg	2.20	0.213	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Potassium, Total	496		mg/kg	220	12.7	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Selenium, Total	0.437	J	mg/kg	1.76	0.227	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Silver, Total	ND		mg/kg	0.440	0.249	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Sodium, Total	224		mg/kg	176	2.77	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Thallium, Total	ND		mg/kg	1.76	0.277	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Vanadium, Total	25.5		mg/kg	0.880	0.179	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Zinc, Total	134		mg/kg	4.40	0.258	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-19
Client ID: 8B-1W (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4630		mg/kg	8.58	2.32	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Antimony, Total	45.0		mg/kg	4.29	0.326	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Arsenic, Total	11.0		mg/kg	0.858	0.178	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Barium, Total	232		mg/kg	0.858	0.149	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.376	J	mg/kg	0.429	0.028	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Cadmium, Total	0.839	J	mg/kg	0.858	0.084	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Calcium, Total	8990		mg/kg	8.58	3.00	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Chromium, Total	17.6		mg/kg	0.858	0.082	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Cobalt, Total	7.72		mg/kg	1.72	0.142	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Copper, Total	111		mg/kg	0.858	0.221	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Iron, Total	21200		mg/kg	4.29	0.775	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Lead, Total	309		mg/kg	4.29	0.230	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Magnesium, Total	1390		mg/kg	8.58	1.32	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Manganese, Total	303		mg/kg	0.858	0.136	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Mercury, Total	10.5		mg/kg	0.724	0.472	10	06/27/23 07:05	06/29/23 11:07	EPA 7471B	1,7471B	DMB
Nickel, Total	14.8		mg/kg	2.14	0.208	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Potassium, Total	605		mg/kg	214	12.4	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Selenium, Total	1.15	J	mg/kg	1.72	0.221	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.429	0.243	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Sodium, Total	405		mg/kg	172	2.70	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Thallium, Total	0.620	J	mg/kg	1.72	0.270	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Vanadium, Total	17.2		mg/kg	0.858	0.174	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Zinc, Total	368		mg/kg	4.29	0.251	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-20
Client ID: 8B-1W (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 67%
TCLP/SPLP Ext. Date: 07/10/23 12:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	07/11/23 23:20	07/12/23 15:23	EPA 3015	1,6010D	JMF
Barium, TCLP	0.782		mg/l	0.500	0.0210	1	07/11/23 23:20	07/12/23 15:23	EPA 3015	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/11/23 23:20	07/12/23 15:23	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/11/23 23:20	07/12/23 15:23	EPA 3015	1,6010D	JMF
Lead, TCLP	0.253	J	mg/l	0.500	0.0270	1	07/11/23 23:20	07/12/23 15:23	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/11/23 23:21	07/12/23 09:22	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/11/23 23:20	07/12/23 15:23	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/11/23 23:20	07/12/23 15:23	EPA 3015	1,6010D	JMF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-20
Client ID: 8B-1W (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	14200		mg/kg	11.6	3.12	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Antimony, Total	1390		mg/kg	5.78	0.439	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Arsenic, Total	97.9		mg/kg	1.16	0.240	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Barium, Total	332		mg/kg	1.16	0.201	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Beryllium, Total	1.30		mg/kg	0.578	0.038	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Cadmium, Total	9.61		mg/kg	1.16	0.113	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Calcium, Total	14400		mg/kg	11.6	4.05	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Chromium, Total	54.6		mg/kg	1.16	0.111	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Cobalt, Total	157		mg/kg	2.31	0.192	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Copper, Total	658		mg/kg	1.16	0.298	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Iron, Total	109000		mg/kg	57.8	10.4	20	06/27/23 05:40	06/29/23 16:27	EPA 3050B	1,6010D	MRC
Lead, Total	3110		mg/kg	5.78	0.310	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Magnesium, Total	966		mg/kg	11.6	1.78	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Manganese, Total	1080		mg/kg	1.16	0.184	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Mercury, Total	3.83		mg/kg	0.190	0.124	2	06/27/23 07:05	06/29/23 11:10	EPA 7471B	1,7471B	DMB
Nickel, Total	118		mg/kg	2.89	0.280	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Potassium, Total	5360		mg/kg	289	16.6	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Selenium, Total	5.04		mg/kg	2.31	0.298	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Silver, Total	20.0		mg/kg	0.578	0.327	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Sodium, Total	17200		mg/kg	231	3.64	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Thallium, Total	1.77	J	mg/kg	2.31	0.364	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Vanadium, Total	15.2		mg/kg	1.16	0.235	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Zinc, Total	3180		mg/kg	5.78	0.339	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-21
Client ID: 8B-1W (6.5-7.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 50%
TCLP/SPLP Ext. Date: 07/10/23 12:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.0531	J	mg/l	1.00	0.0190	1	07/14/23 12:59	07/16/23 22:02	EPA 3015	1,6010D	TAA
Barium, TCLP	0.812		mg/l	0.500	0.0210	1	07/14/23 12:59	07/16/23 22:02	EPA 3015	1,6010D	TAA
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/14/23 12:59	07/16/23 22:02	EPA 3015	1,6010D	TAA
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/14/23 12:59	07/16/23 22:02	EPA 3015	1,6010D	TAA
Lead, TCLP	0.188	J	mg/l	0.500	0.0270	1	07/14/23 12:59	07/16/23 22:02	EPA 3015	1,6010D	TAA
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/14/23 12:45	07/14/23 17:51	EPA 7470A	1,7470A	GMG
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/14/23 12:59	07/16/23 22:02	EPA 3015	1,6010D	TAA
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/14/23 12:59	07/16/23 22:02	EPA 3015	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-21
Client ID: 8B-1W (6.5-7.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 50%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9710		mg/kg	15.3	4.12	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Antimony, Total	51.1		mg/kg	7.63	0.580	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Arsenic, Total	20.1		mg/kg	1.53	0.317	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Barium, Total	455		mg/kg	1.53	0.266	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.918		mg/kg	0.763	0.050	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Cadmium, Total	1.65		mg/kg	1.53	0.150	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Calcium, Total	21000		mg/kg	15.3	5.34	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Chromium, Total	83.6		mg/kg	1.53	0.146	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Cobalt, Total	10.8		mg/kg	3.05	0.253	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Copper, Total	214		mg/kg	1.53	0.394	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Iron, Total	53400		mg/kg	76.3	13.8	20	06/27/23 05:40	06/29/23 16:30	EPA 3050B	1,6010D	MRC
Lead, Total	658		mg/kg	7.63	0.409	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Magnesium, Total	2910		mg/kg	15.3	2.35	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Manganese, Total	802		mg/kg	1.53	0.243	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Mercury, Total	14.1		mg/kg	1.25	0.815	10	06/27/23 07:05	06/29/23 10:40	EPA 7471B	1,7471B	DMB
Nickel, Total	37.2		mg/kg	3.82	0.369	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Potassium, Total	1080		mg/kg	382	22.0	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Selenium, Total	1.78	J	mg/kg	3.05	0.394	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.763	0.432	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Sodium, Total	680		mg/kg	305	4.81	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Thallium, Total	1.47	J	mg/kg	3.05	0.481	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Vanadium, Total	35.9		mg/kg	1.53	0.310	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Zinc, Total	2240		mg/kg	7.63	0.447	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-22
Client ID: 8B-1W (6.5-7.0) DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5100		mg/kg	10.3	2.78	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Antimony, Total	8.56		mg/kg	5.14	0.391	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Arsenic, Total	17.6		mg/kg	1.03	0.214	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Barium, Total	175		mg/kg	1.03	0.179	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.299	J	mg/kg	0.514	0.034	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Cadmium, Total	0.901	J	mg/kg	1.03	0.101	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Calcium, Total	8420		mg/kg	10.3	3.60	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Chromium, Total	13.9		mg/kg	1.03	0.099	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Cobalt, Total	6.24		mg/kg	2.06	0.171	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Copper, Total	130		mg/kg	1.03	0.265	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Iron, Total	28100		mg/kg	5.14	0.929	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Lead, Total	604		mg/kg	5.14	0.276	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Magnesium, Total	3770		mg/kg	10.3	1.58	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Manganese, Total	252		mg/kg	1.03	0.164	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Mercury, Total	0.946		mg/kg	0.085	0.055	1	06/27/23 07:05	06/29/23 10:37	EPA 7471B	1,7471B	DMB
Nickel, Total	12.9		mg/kg	2.57	0.249	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Potassium, Total	535		mg/kg	257	14.8	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Selenium, Total	1.00	J	mg/kg	2.06	0.265	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Silver, Total	0.512	J	mg/kg	0.514	0.291	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Sodium, Total	150	J	mg/kg	206	3.24	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Thallium, Total	0.531	J	mg/kg	2.06	0.324	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Vanadium, Total	17.8		mg/kg	1.03	0.209	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Zinc, Total	406		mg/kg	5.14	0.302	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-23
Client ID: 8B-1WW (1.0-1.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 11:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4110		mg/kg	8.14	2.20	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Antimony, Total	2.92	J	mg/kg	4.07	0.309	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Arsenic, Total	11.7		mg/kg	0.814	0.169	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Barium, Total	94.9		mg/kg	0.814	0.142	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.284	J	mg/kg	0.407	0.027	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Cadmium, Total	1.16		mg/kg	0.814	0.080	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Calcium, Total	24000		mg/kg	8.14	2.85	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Chromium, Total	188		mg/kg	0.814	0.078	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Cobalt, Total	6.10		mg/kg	1.63	0.135	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Copper, Total	111		mg/kg	0.814	0.210	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Iron, Total	15700		mg/kg	4.07	0.735	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Lead, Total	413		mg/kg	4.07	0.218	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Magnesium, Total	10300		mg/kg	8.14	1.25	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Manganese, Total	193		mg/kg	0.814	0.129	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Mercury, Total	16.4		mg/kg	0.693	0.452	10	07/08/23 10:40	07/10/23 16:37	EPA 7471B	1,7471B	DMB
Nickel, Total	107		mg/kg	2.04	0.197	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Potassium, Total	587		mg/kg	204	11.7	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Selenium, Total	0.633	J	mg/kg	1.63	0.210	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Silver, Total	0.319	J	mg/kg	0.407	0.230	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Sodium, Total	249		mg/kg	163	2.56	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Thallium, Total	0.353	J	mg/kg	1.63	0.256	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Vanadium, Total	23.9		mg/kg	0.814	0.165	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Zinc, Total	352		mg/kg	4.07	0.238	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-24
Client ID: 8B-1WW (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 11:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3630		mg/kg	10.0	2.71	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Antimony, Total	4.65	J	mg/kg	5.02	0.382	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Arsenic, Total	17.7		mg/kg	1.00	0.209	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Barium, Total	218		mg/kg	1.00	0.175	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.540		mg/kg	0.502	0.033	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Cadmium, Total	1.55		mg/kg	1.00	0.098	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Calcium, Total	4180		mg/kg	10.0	3.52	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Chromium, Total	60.1		mg/kg	1.00	0.096	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Cobalt, Total	9.32		mg/kg	2.01	0.167	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Copper, Total	285		mg/kg	1.00	0.259	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Iron, Total	22100		mg/kg	5.02	0.907	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Lead, Total	397		mg/kg	5.02	0.269	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Magnesium, Total	952		mg/kg	10.0	1.55	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Manganese, Total	111		mg/kg	1.00	0.160	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Mercury, Total	5.76		mg/kg	0.426	0.278	5	07/08/23 10:40	07/10/23 16:47	EPA 7471B	1,7471B	DMB
Nickel, Total	27.2		mg/kg	2.51	0.243	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Potassium, Total	299		mg/kg	251	14.5	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Selenium, Total	1.83	J	mg/kg	2.01	0.259	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Silver, Total	0.509		mg/kg	0.502	0.284	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Sodium, Total	164	J	mg/kg	201	3.16	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Thallium, Total	0.444	J	mg/kg	2.01	0.316	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Vanadium, Total	15.6		mg/kg	1.00	0.204	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Zinc, Total	504		mg/kg	5.02	0.294	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-25
Client ID: 8B-1WW (6.0-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 12:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2850		mg/kg	9.90	2.67	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Antimony, Total	6.16		mg/kg	4.95	0.376	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Arsenic, Total	17.9		mg/kg	0.990	0.206	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Barium, Total	343		mg/kg	0.990	0.172	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.190	J	mg/kg	0.495	0.033	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Cadmium, Total	1.17		mg/kg	0.990	0.097	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Calcium, Total	4560		mg/kg	9.90	3.47	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Chromium, Total	17.6		mg/kg	0.990	0.095	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Cobalt, Total	2.89		mg/kg	1.98	0.164	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Copper, Total	178		mg/kg	0.990	0.256	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Iron, Total	10800		mg/kg	4.95	0.894	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Lead, Total	2760		mg/kg	4.95	0.265	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Magnesium, Total	2020		mg/kg	9.90	1.52	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Manganese, Total	124		mg/kg	0.990	0.157	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Mercury, Total	1.14		mg/kg	0.081	0.053	1	07/08/23 10:40	07/10/23 14:37	EPA 7471B	1,7471B	DMB
Nickel, Total	9.70		mg/kg	2.48	0.240	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Potassium, Total	445		mg/kg	248	14.3	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Selenium, Total	0.740	J	mg/kg	1.98	0.256	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Silver, Total	1.38		mg/kg	0.495	0.280	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Sodium, Total	133	J	mg/kg	198	3.12	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Thallium, Total	ND		mg/kg	1.98	0.312	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Vanadium, Total	13.5		mg/kg	0.990	0.201	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Zinc, Total	470		mg/kg	4.95	0.290	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08,12-15,19-22 Batch: WG1796177-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Antimony, Total	0.153	J	mg/kg	2.00	0.152	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Barium, Total	ND		mg/kg	0.400	0.070	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Calcium, Total	ND		mg/kg	4.00	1.40	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Chromium, Total	0.222	J	mg/kg	0.400	0.038	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Copper, Total	ND		mg/kg	0.400	0.103	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Iron, Total	1.07	J	mg/kg	2.00	0.361	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Lead, Total	ND		mg/kg	2.00	0.107	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Manganese, Total	ND		mg/kg	0.400	0.064	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Potassium, Total	6.64	J	mg/kg	100	5.76	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Silver, Total	ND		mg/kg	0.200	0.113	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Sodium, Total	9.09	J	mg/kg	80.0	1.26	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Zinc, Total	0.292	J	mg/kg	2.00	0.117	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08,12-15,19-22 Batch: WG1796178-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/27/23 07:05	06/29/23 09:15	1,7471B	DMB

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,03-04,06 Batch: WG1796303-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Barium, Total	ND		mg/l	0.00050	0.00017	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Calcium, Total	ND		mg/l	0.100	0.0394	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Copper, Total	ND		mg/l	0.00100	0.00038	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Iron, Total	ND		mg/l	0.0500	0.0191	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Lead, Total	ND		mg/l	0.00100	0.00034	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Nickel, Total	ND		mg/l	0.00200	0.00055	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Potassium, Total	ND		mg/l	0.100	0.0309	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Sodium, Total	ND		mg/l	0.100	0.0293	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV

Prep Information

Digestion Method: EPA 3005A

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,03-04,06 Batch: WG1796309-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	06/27/23 00:15	06/27/23 14:58	1,7470A	GMG

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01,03-04,06 Batch: WG1796573-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01,03-04,06 Batch: WG1796579-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/27/23 13:02	06/28/23 16:19	1,7470A	DMB

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 09-11,16-18,23-25 Batch: WG1800887-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Antimony, Total	ND		mg/kg	2.00	0.152	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Arsenic, Total	ND		mg/kg	0.400	0.083	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Barium, Total	ND		mg/kg	0.400	0.070	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Beryllium, Total	ND		mg/kg	0.200	0.013	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Calcium, Total	ND		mg/kg	4.00	1.40	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Cobalt, Total	ND		mg/kg	0.800	0.066	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Copper, Total	ND		mg/kg	0.400	0.103	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Iron, Total	ND		mg/kg	2.00	0.361	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Lead, Total	ND		mg/kg	2.00	0.107	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Magnesium, Total	ND		mg/kg	4.00	0.616	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Manganese, Total	ND		mg/kg	0.400	0.064	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Nickel, Total	ND		mg/kg	1.00	0.097	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Potassium, Total	ND		mg/kg	100	5.76	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Selenium, Total	ND		mg/kg	0.800	0.103	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Silver, Total	ND		mg/kg	0.200	0.113	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Sodium, Total	1.53	J	mg/kg	80.0	1.26	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Thallium, Total	ND		mg/kg	0.800	0.126	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

Method Blank Analysis
Batch Quality Control

Vanadium, Total	ND	mg/kg	0.400	0.081	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Zinc, Total	ND	mg/kg	2.00	0.117	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 09-11,16,18,23-25 Batch: WG1800889-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/08/23 10:40	07/10/23 13:41	1,7471B	DMB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02,05,07 Batch: WG1801296-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Antimony, Total	ND		mg/l	0.00400	0.00042	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Barium, Total	ND		mg/l	0.00050	0.00017	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Calcium, Total	ND		mg/l	0.100	0.0394	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Chromium, Total	ND		mg/l	0.00100	0.00017	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Copper, Total	ND		mg/l	0.00100	0.00038	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Iron, Total	ND		mg/l	0.0500	0.0191	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Manganese, Total	ND		mg/l	0.00100	0.00044	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Nickel, Total	ND		mg/l	0.00200	0.00055	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Potassium, Total	ND		mg/l	0.100	0.0309	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

Method Blank Analysis
Batch Quality Control

Silver, Total	ND	mg/l	0.00040	0.00016	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Sodium, Total	ND	mg/l	0.100	0.0293	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Thallium, Total	ND	mg/l	0.00100	0.00014	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Vanadium, Total	ND	mg/l	0.00500	0.00157	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Zinc, Total	ND	mg/l	0.01000	0.00341	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02,05,07 Batch: WG1801298-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/10/23 12:00	07/11/23 16:28	1,7470A	DMB

Prep Information

Digestion Method: EPA 245.1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02,05,07 Batch: WG1801412-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

Method Blank Analysis
Batch Quality Control

Nickel, Dissolved	ND	mg/l	0.00200	0.00055	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Potassium, Dissolved	ND	mg/l	0.100	0.0309	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Selenium, Dissolved	ND	mg/l	0.00500	0.00173	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Silver, Dissolved	ND	mg/l	0.00040	0.00016	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Sodium, Dissolved	ND	mg/l	0.100	0.0293	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Thallium, Dissolved	ND	mg/l	0.00100	0.00014	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Vanadium, Dissolved	ND	mg/l	0.00500	0.00157	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Zinc, Dissolved	ND	mg/l	0.01000	0.00341	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02,05,07 Batch: WG1801416-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	07/10/23 20:18	07/12/23 17:50	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 20 Batch: WG1801960-1										
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	07/11/23 23:20	07/12/23 15:14	1,6010D	JMF
Barium, TCLP	ND		mg/l	0.500	0.0210	1	07/11/23 23:20	07/12/23 15:14	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/11/23 23:20	07/12/23 15:14	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/11/23 23:20	07/12/23 15:14	1,6010D	JMF
Lead, TCLP	ND		mg/l	0.500	0.0270	1	07/11/23 23:20	07/12/23 15:14	1,6010D	JMF
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/11/23 23:20	07/12/23 15:14	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/11/23 23:20	07/12/23 15:14	1,6010D	JMF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 07/10/23 12:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 20 Batch: WG1801962-1										
Mercury, TCLP	0.0012		mg/l	0.0010	0.0005	1	07/11/23 23:21	07/12/23 09:05	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 07/10/23 12:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 17 Batch: WG1802651-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/13/23 10:10	07/13/23 21:10	1,7471B	GMG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 21 Batch: WG1803360-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/14/23 12:45	07/14/23 17:44	1,7470A	GMG

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 07/08/23 13:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 21 Batch: WG1803365-1										
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	07/14/23 12:59	07/16/23 22:24	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Barium, TCLP	ND	mg/l	0.500	0.0210	1	07/14/23 12:59	07/16/23 22:24	1,6010D	TAA
Cadmium, TCLP	ND	mg/l	0.100	0.0100	1	07/14/23 12:59	07/16/23 22:24	1,6010D	TAA
Chromium, TCLP	ND	mg/l	0.200	0.0210	1	07/14/23 12:59	07/16/23 22:24	1,6010D	TAA
Lead, TCLP	ND	mg/l	0.500	0.0270	1	07/14/23 12:59	07/16/23 22:24	1,6010D	TAA
Selenium, TCLP	ND	mg/l	0.500	0.0350	1	07/14/23 12:59	07/16/23 22:24	1,6010D	TAA
Silver, TCLP	ND	mg/l	0.100	0.0280	1	07/14/23 12:59	07/16/23 22:24	1,6010D	TAA

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 07/08/23 13:20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 Batch: WG1796177-2 SRM Lot Number: D119-540								
Aluminum, Total	79		-		48-152	-		
Antimony, Total	135		-		10-190	-		
Arsenic, Total	105		-		83-117	-		
Barium, Total	103		-		82-118	-		
Beryllium, Total	106		-		83-117	-		
Cadmium, Total	104		-		82-117	-		
Calcium, Total	105		-		81-118	-		
Chromium, Total	108		-		82-119	-		
Cobalt, Total	107		-		83-117	-		
Copper, Total	104		-		84-116	-		
Iron, Total	101		-		60-140	-		
Lead, Total	106		-		82-118	-		
Magnesium, Total	95		-		76-124	-		
Manganese, Total	105		-		82-118	-		
Nickel, Total	107		-		82-117	-		
Potassium, Total	94		-		70-130	-		
Selenium, Total	109		-		79-121	-		
Silver, Total	105		-		80-120	-		
Sodium, Total	109		-		74-126	-		
Thallium, Total	110		-		81-119	-		
Vanadium, Total	105		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 Batch: WG1796177-2 SRM Lot Number: D119-540					
Zinc, Total	104	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 Batch: WG1796178-2 SRM Lot Number: D119-540					
Mercury, Total	92	-	73-127	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 Batch: WG1796303-2					
Aluminum, Total	103	-	80-120	-	
Antimony, Total	90	-	80-120	-	
Arsenic, Total	107	-	80-120	-	
Barium, Total	105	-	80-120	-	
Beryllium, Total	105	-	80-120	-	
Cadmium, Total	101	-	80-120	-	
Calcium, Total	88	-	80-120	-	
Chromium, Total	94	-	80-120	-	
Cobalt, Total	99	-	80-120	-	
Copper, Total	100	-	80-120	-	
Iron, Total	106	-	80-120	-	
Lead, Total	101	-	80-120	-	
Magnesium, Total	101	-	80-120	-	
Manganese, Total	100	-	80-120	-	
Nickel, Total	99	-	80-120	-	
Potassium, Total	108	-	80-120	-	
Selenium, Total	103	-	80-120	-	
Silver, Total	101	-	80-120	-	
Sodium, Total	102	-	80-120	-	
Thallium, Total	101	-	80-120	-	
Vanadium, Total	97	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 Batch: WG1796303-2					
Zinc, Total	100	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 Batch: WG1796309-2					
Mercury, Total	93	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 Batch: WG1796573-2					
Aluminum, Dissolved	100	-	80-120	-	
Antimony, Dissolved	95	-	80-120	-	
Arsenic, Dissolved	106	-	80-120	-	
Barium, Dissolved	101	-	80-120	-	
Beryllium, Dissolved	106	-	80-120	-	
Cadmium, Dissolved	108	-	80-120	-	
Calcium, Dissolved	93	-	80-120	-	
Chromium, Dissolved	100	-	80-120	-	
Cobalt, Dissolved	102	-	80-120	-	
Copper, Dissolved	104	-	80-120	-	
Iron, Dissolved	105	-	80-120	-	
Lead, Dissolved	107	-	80-120	-	
Magnesium, Dissolved	101	-	80-120	-	
Manganese, Dissolved	101	-	80-120	-	
Nickel, Dissolved	101	-	80-120	-	
Potassium, Dissolved	100	-	80-120	-	
Selenium, Dissolved	98	-	80-120	-	
Silver, Dissolved	106	-	80-120	-	
Sodium, Dissolved	100	-	80-120	-	
Thallium, Dissolved	103	-	80-120	-	
Vanadium, Dissolved	101	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 Batch: WG1796573-2					
Zinc, Dissolved	102	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 Batch: WG1796579-2					
Mercury, Dissolved	90	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-18,23-25 Batch: WG1800887-2 SRM Lot Number: D119-540					
Aluminum, Total	74	-	48-152	-	
Antimony, Total	125	-	10-190	-	
Arsenic, Total	99	-	83-117	-	
Barium, Total	89	-	82-118	-	
Beryllium, Total	91	-	83-117	-	
Cadmium, Total	97	-	82-117	-	
Calcium, Total	89	-	81-118	-	
Chromium, Total	102	-	82-119	-	
Cobalt, Total	98	-	83-117	-	
Copper, Total	101	-	84-116	-	
Iron, Total	94	-	60-140	-	
Lead, Total	99	-	82-118	-	
Magnesium, Total	91	-	76-124	-	
Manganese, Total	93	-	82-118	-	
Nickel, Total	99	-	82-117	-	
Potassium, Total	84	-	70-130	-	
Selenium, Total	103	-	79-121	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	90	-	74-126	-	
Thallium, Total	100	-	81-119	-	
Vanadium, Total	98	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-18,23-25 Batch: WG1800887-2 SRM Lot Number: D119-540					
Zinc, Total	97	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 09-11,16,18,23-25 Batch: WG1800889-2 SRM Lot Number: D119-540					
Mercury, Total	94	-	73-127	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05,07 Batch: WG1801296-2					
Aluminum, Total	99	-	80-120	-	
Antimony, Total	91	-	80-120	-	
Arsenic, Total	102	-	80-120	-	
Barium, Total	99	-	80-120	-	
Beryllium, Total	98	-	80-120	-	
Cadmium, Total	103	-	80-120	-	
Calcium, Total	94	-	80-120	-	
Chromium, Total	100	-	80-120	-	
Cobalt, Total	100	-	80-120	-	
Copper, Total	104	-	80-120	-	
Iron, Total	101	-	80-120	-	
Lead, Total	102	-	80-120	-	
Magnesium, Total	101	-	80-120	-	
Manganese, Total	99	-	80-120	-	
Nickel, Total	100	-	80-120	-	
Potassium, Total	98	-	80-120	-	
Selenium, Total	92	-	80-120	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	98	-	80-120	-	
Thallium, Total	104	-	80-120	-	
Vanadium, Total	94	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05,07 Batch: WG1801296-2					
Zinc, Total	98	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 02,05,07 Batch: WG1801298-2					
Mercury, Total	100	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 Batch: WG1801412-2					
Aluminum, Dissolved	102	-	80-120	-	
Antimony, Dissolved	103	-	80-120	-	
Arsenic, Dissolved	104	-	80-120	-	
Barium, Dissolved	107	-	80-120	-	
Beryllium, Dissolved	103	-	80-120	-	
Cadmium, Dissolved	109	-	80-120	-	
Calcium, Dissolved	115	-	80-120	-	
Chromium, Dissolved	103	-	80-120	-	
Cobalt, Dissolved	109	-	80-120	-	
Copper, Dissolved	109	-	80-120	-	
Iron, Dissolved	118	-	80-120	-	
Lead, Dissolved	108	-	80-120	-	
Magnesium, Dissolved	111	-	80-120	-	
Manganese, Dissolved	117	-	80-120	-	
Nickel, Dissolved	108	-	80-120	-	
Potassium, Dissolved	119	-	80-120	-	
Selenium, Dissolved	98	-	80-120	-	
Silver, Dissolved	105	-	80-120	-	
Sodium, Dissolved	110	-	80-120	-	
Thallium, Dissolved	110	-	80-120	-	
Vanadium, Dissolved	106	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 Batch: WG1801412-2					
Zinc, Dissolved	107	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 Batch: WG1801416-2					
Mercury, Dissolved	94	-	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 20 Batch: WG1801960-2					
Arsenic, TCLP	100	-	75-125	-	20
Barium, TCLP	96	-	75-125	-	20
Cadmium, TCLP	99	-	75-125	-	20
Chromium, TCLP	95	-	75-125	-	20
Lead, TCLP	92	-	75-125	-	20
Selenium, TCLP	98	-	75-125	-	20
Silver, TCLP	96	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 20 Batch: WG1801962-2					
Mercury, TCLP	120	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 17 Batch: WG1802651-2 SRM Lot Number: D119-540					
Mercury, Total	95	-	73-127	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 21 Batch: WG1803360-2					
Mercury, TCLP	104	-	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 21 Batch: WG1803365-2					
Arsenic, TCLP	96	-	75-125	-	20
Barium, TCLP	97	-	75-125	-	20
Cadmium, TCLP	98	-	75-125	-	20
Chromium, TCLP	98	-	75-125	-	20
Lead, TCLP	94	-	75-125	-	20
Selenium, TCLP	95	-	75-125	-	20
Silver, TCLP	97	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 QC Batch ID: WG1796177-3 WG1796177-4 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)												
Aluminum, Total	9710	309	12200	**805**	Q	10800	**358**	Q	75-125	12		20
Antimony, Total	51.1	77.3	154	**133**	Q	116	85		75-125	**28**	Q	20
Arsenic, Total	20.1	18.6	46.0	**140**	Q	45.4	**138**	Q	75-125	1		20
Barium, Total	455	309	715	84		674	**72**	Q	75-125	6		20
Beryllium, Total	0.918	7.73	8.75	101		8.61	101		75-125	2		20
Cadmium, Total	1.65	8.2	9.09	91		9.03	91		75-125	1		20
Calcium, Total	21000	1550	24300	**213**	Q	23600	**171**	Q	75-125	3		20
Chromium, Total	83.6	30.9	98.6	**48**	Q	109	83		75-125	10		20
Cobalt, Total	10.8	77.3	86.3	98		87.5	101		75-125	1		20
Copper, Total	214	38.7	242	**72**	Q	260	121		75-125	7		20
Iron, Total	53400	155	86300	**21300**	Q	85000	**20700**	Q	75-125	2		20
Lead, Total	658	82	607	**0**	Q	604	**0**	Q	75-125	0		20
Magnesium, Total	2910	1550	4840	125		4700	117		75-125	3		20
Manganese, Total	802	77.3	1010	**269**	Q	749	**0**	Q	75-125	**30**	Q	20
Nickel, Total	37.2	77.3	105	88		109	94		75-125	4		20
Potassium, Total	1080	1550	2900	118		2760	110		75-125	5		20
Selenium, Total	1.78J	18.6	22.1	119		21.8	119		75-125	1		20
Silver, Total	ND	7.73	7.61	98		7.66	100		75-125	1		20
Sodium, Total	680	1550	2510	118		2460	117		75-125	2		20
Thallium, Total	1.47J	18.6	19.6	106		19.3	106		75-125	2		20
Vanadium, Total	35.9	77.3	117	105		116	105		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 QC Batch ID: WG1796177-3 WG1796177-4 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)												
Zinc, Total	2240	77.3	786	**0**	Q	732	**0**	Q	75-125	7		20
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 QC Batch ID: WG1796178-3 WG1796178-4 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)												
Mercury, Total	14.1	2.49	21.0	**277**	Q	14.7	**24**	Q	80-120	**35**	Q	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796303-3 QC Sample: L2333903-05 Client ID: MS Sample									
Aluminum, Total	0.096	2	2.07	99	-	-	75-125	-	20
Antimony, Total	ND	0.5	0.4316	86	-	-	75-125	-	20
Arsenic, Total	0.0003J	0.12	0.1203	100	-	-	75-125	-	20
Barium, Total	0.0020	2	1.980	99	-	-	75-125	-	20
Beryllium, Total	0.0001J	0.05	0.05132	103	-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.05263	99	-	-	75-125	-	20
Calcium, Total	1.06	10	13.2	121	-	-	75-125	-	20
Chromium, Total	0.0002J	0.2	0.1870	94	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.4927	98	-	-	75-125	-	20
Copper, Total	ND	0.25	0.2480	99	-	-	75-125	-	20
Iron, Total	0.043J	1	1.14	114	-	-	75-125	-	20
Lead, Total	ND	0.53	0.5086	96	-	-	75-125	-	20
Magnesium, Total	0.158	10	9.62	95	-	-	75-125	-	20
Manganese, Total	0.0079	0.5	0.5066	100	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.5004	100	-	-	75-125	-	20
Potassium, Total	0.301	10	10.5	102	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.126	105	-	-	75-125	-	20
Silver, Total	ND	0.05	0.04814	96	-	-	75-125	-	20
Sodium, Total	1.32	10	10.9	96	-	-	75-125	-	20
Thallium, Total	0.0002J	0.12	0.1179	98	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.4773	95	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796303-3 QC Sample: L2333903-05 Client ID: MS Sample									
Zinc, Total	0.0041J	0.5	0.5075	102	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796309-3 QC Sample: L2336316-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00453	91	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796573-3 QC Sample: L2333713-01 Client ID: MS Sample									
Aluminum, Dissolved	0.038	2	2.08	102	-	-	75-125	-	20
Antimony, Dissolved	ND	0.5	0.4835	97	-	-	75-125	-	20
Arsenic, Dissolved	0.00460	0.12	0.1334	107	-	-	75-125	-	20
Barium, Dissolved	0.0093	2	1.992	99	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05519	110	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.053	0.05717	108	-	-	75-125	-	20
Calcium, Dissolved	38.7	10	47.3	86	-	-	75-125	-	20
Chromium, Dissolved	0.0003J	0.2	0.2053	103	-	-	75-125	-	20
Cobalt, Dissolved	ND	0.5	0.5199	104	-	-	75-125	-	20
Copper, Dissolved	0.0005J	0.25	0.2614	104	-	-	75-125	-	20
Iron, Dissolved	0.069	1	1.14	107	-	-	75-125	-	20
Lead, Dissolved	ND	0.53	0.5514	104	-	-	75-125	-	20
Magnesium, Dissolved	12.5	10	22.8	103	-	-	75-125	-	20
Manganese, Dissolved	0.3645	0.5	0.8730	102	-	-	75-125	-	20
Nickel, Dissolved	ND	0.5	0.5161	103	-	-	75-125	-	20
Potassium, Dissolved	2.15	10	12.1	100	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.124	103	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05371	107	-	-	75-125	-	20
Sodium, Dissolved	13.7	10	24.0	103	-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1255	104	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.5099	102	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796573-3 QC Sample: L2333713-01 Client ID: MS Sample									
Zinc, Dissolved	ND	0.5	0.5214	104	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796579-3 QC Sample: L2334118-13 Client ID: MS Sample									
Mercury, Dissolved	ND	0.005	0.00468	94	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-18,23-25 QC Batch ID: WG1800887-3 QC Sample: L2338616-01 Client ID: MS Sample										
Aluminum, Total	4800	162	5770	**598**	Q	-	-	75-125	-	20
Antimony, Total	0.272J	40.6	32.8	81		-	-	75-125	-	20
Arsenic, Total	2.51	9.74	11.7	94		-	-	75-125	-	20
Barium, Total	32.0	162	135	**63**	Q	-	-	75-125	-	20
Beryllium, Total	0.452	4.06	4.25	94		-	-	75-125	-	20
Cadmium, Total	0.205J	4.3	4.05	94		-	-	75-125	-	20
Calcium, Total	662	812	1170	**62**	Q	-	-	75-125	-	20
Chromium, Total	16.2	16.2	31.6	95		-	-	75-125	-	20
Cobalt, Total	5.19	40.6	40.4	87		-	-	75-125	-	20
Copper, Total	11.1	20.3	30.2	94		-	-	75-125	-	20
Iron, Total	9950	81.2	10100	**185**	Q	-	-	75-125	-	20
Lead, Total	33.6	43	72.2	90		-	-	75-125	-	20
Magnesium, Total	1420	812	2230	100		-	-	75-125	-	20
Manganese, Total	56.5	40.6	77.5	**52**	Q	-	-	75-125	-	20
Nickel, Total	13.9	40.6	48.9	86		-	-	75-125	-	20
Potassium, Total	237	812	785	**68**	Q	-	-	75-125	-	20
Selenium, Total	0.300J	9.74	8.53	88		-	-	75-125	-	20
Silver, Total	ND	4.06	3.68	91		-	-	75-125	-	20
Sodium, Total	37.1J	812	554	**68**	Q	-	-	75-125	-	20
Thallium, Total	0.354J	9.74	8.56	88		-	-	75-125	-	20
Vanadium, Total	21.7	40.6	58.7	91		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-18,23-25 QC Batch ID: WG1800887-3 QC Sample: L2338616-01 Client ID: MS Sample										
Zinc, Total	92.0	40.6	134	103		-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 09-11,16,18,23-25 QC Batch ID: WG1800889-3 QC Sample: L2335541-09 Client ID: 8B-1NN (1.5-2.0)										
Mercury, Total	1.41	1.43	3.96	**178**	Q	-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801296-3 WG1801296-4 QC Sample: L2338623-01 Client ID: MS Sample											
Aluminum, Total	0.00448J	2	1.96	98		1.94	97		75-125	1	20
Antimony, Total	ND	0.5	0.4831	97		0.4750	95		75-125	2	20
Arsenic, Total	0.01240	0.12	0.1323	100		0.1318	100		75-125	0	20
Barium, Total	0.1626	2	2.099	97		2.065	95		75-125	2	20
Beryllium, Total	ND	0.05	0.04923	98		0.04989	100		75-125	1	20
Cadmium, Total	ND	0.053	0.05222	98		0.05237	99		75-125	0	20
Calcium, Total	140.	10	145	**50**	Q	141	**10**	Q	75-125	3	20
Chromium, Total	0.00039J	0.2	0.1979	99		0.1906	95		75-125	4	20
Cobalt, Total	0.00120	0.5	0.4930	98		0.4742	94		75-125	4	20
Copper, Total	ND	0.25	0.2553	102		0.2496	100		75-125	2	20
Iron, Total	42.0	1	42.6	**60**	Q	40.8	**0**	Q	75-125	4	20
Lead, Total	0.00036J	0.53	0.5290	100		0.5324	100		75-125	1	20
Magnesium, Total	26.4	10	34.1	77		33.6	**72**	Q	75-125	1	20
Manganese, Total	1.773	0.5	2.286	103		2.178	81		75-125	5	20
Nickel, Total	0.00240	0.5	0.5176	103		0.4846	96		75-125	7	20
Potassium, Total	27.3	10	36.2	89		34.9	76		75-125	4	20
Selenium, Total	ND	0.12	0.108	90		0.112	93		75-125	4	20
Silver, Total	ND	0.05	0.04935	99		0.04934	99		75-125	0	20
Sodium, Total	150.	10	146	**0**	Q	143	**0**	Q	75-125	2	20
Thallium, Total	0.00014J	0.12	0.1185	99		0.1230	102		75-125	4	20
Vanadium, Total	ND	0.5	0.4813	96		0.4617	92		75-125	4	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801296-3 WG1801296-4 QC Sample: L2338623-01 Client ID: MS Sample									
Zinc, Total	0.00646J	0.5	0.4879	98	0.4821	96	75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801298-3 WG1801298-4 QC Sample: L2338623-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00514	103	0.00493	99	75-125	4	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801412-3 QC Sample: L2337659-11 Client ID: MS Sample										
Aluminum, Dissolved	0.060	2	2.01	97		-	-	75-125	-	20
Antimony, Dissolved	ND	0.5	0.4987	100		-	-	75-125	-	20
Arsenic, Dissolved	0.0009	0.12	0.1179	97		-	-	75-125	-	20
Barium, Dissolved	0.1754	2	2.178	100		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05003	100		-	-	75-125	-	20
Cadmium, Dissolved	ND	0.053	0.05404	102		-	-	75-125	-	20
Calcium, Dissolved	49.4	10	51.8	**24**	Q	-	-	75-125	-	20
Chromium, Dissolved	0.0004J	0.2	0.2273	114		-	-	75-125	-	20
Cobalt, Dissolved	0.0004J	0.5	0.5045	101		-	-	75-125	-	20
Copper, Dissolved	0.00245	0.25	0.2627	104		-	-	75-125	-	20
Iron, Dissolved	0.095	1	1.12	102		-	-	75-125	-	20
Lead, Dissolved	ND	0.53	0.5442	103		-	-	75-125	-	20
Magnesium, Dissolved	10.6	10	21.0	104		-	-	75-125	-	20
Manganese, Dissolved	0.4404	0.5	0.9586	104		-	-	75-125	-	20
Nickel, Dissolved	0.0018J	0.5	0.5110	102		-	-	75-125	-	20
Potassium, Dissolved	6.64	10	17.1	105		-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.114	95		-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05081	102		-	-	75-125	-	20
Sodium, Dissolved	92.9	10	101	81		-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1254	104		-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.5687	114		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801412-3 QC Sample: L2337659-11 Client ID: MS Sample									
Zinc, Dissolved	0.0058J	0.5	0.5142	103	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801416-3 QC Sample: L2335541-02 Client ID: 8B-1NN-GW									
Mercury, Dissolved	0.00065	0.005	0.00602	107	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 20 QC Batch ID: WG1801960-3 QC Sample: L2338995-01 Client ID: MS Sample									
Arsenic, TCLP	ND	1.2	1.17	98	-	-	75-125	-	20
Barium, TCLP	0.0662J	20	18.8	94	-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.515	97	-	-	75-125	-	20
Chromium, TCLP	ND	2	1.85	92	-	-	75-125	-	20
Lead, TCLP	0.0609J	5.3	4.91	93	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.19	99	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.474	95	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 20 QC Batch ID: WG1801962-3 QC Sample: L2338995-01 Client ID: MS Sample									
Mercury, TCLP	0.0009JB	0.025	0.0239	96	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 17 QC Batch ID: WG1802651-3 QC Sample: L2339889-03 Client ID: MS Sample									
Mercury, Total	0.073J	1.51	1.64	109	-	-	80-120	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 21 QC Batch ID: WG1803360-3 WG1803360-4 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)									
Mercury, TCLP	ND	0.025	0.0250	100	0.0246	98	75-125	1	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 21 QC Batch ID: WG1803365-3 WG1803365-4 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)									
Arsenic, TCLP	0.0531J	1.2	1.26	105	1.22	102	75-125	3	20
Barium, TCLP	0.812	20	19.5	93	20.0	96	75-125	3	20
Cadmium, TCLP	ND	0.53	0.534	101	0.526	99	75-125	2	20
Chromium, TCLP	ND	2	1.90	95	1.91	96	75-125	1	20
Lead, TCLP	0.188J	5.3	5.20	98	5.10	96	75-125	2	20
Selenium, TCLP	ND	1.2	1.19	99	1.13	94	75-125	5	20
Silver, TCLP	ND	0.5	0.480	96	0.482	96	75-125	0	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796303-4 QC Sample: L2333903-05 Client ID: DUP Sample						
Cadmium, Total	ND	0.00007J	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796309-4 QC Sample: L2336316-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796573-4 QC Sample: L2333713-01 Client ID: DUP Sample						
Arsenic, Dissolved	0.00460	0.00456	mg/l	1		20
Manganese, Dissolved	0.3645	0.3550	mg/l	3		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796579-4 QC Sample: L2334118-13 Client ID: DUP Sample						
Mercury, Dissolved	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-18,23-25 QC Batch ID: WG1800887-4 QC Sample: L2338616-01 Client ID: DUP Sample					
Antimony, Total	0.272J	0.345J	mg/kg	NC	20
Arsenic, Total	2.51	2.69	mg/kg	7	20
Beryllium, Total	0.452	0.429	mg/kg	5	20
Cadmium, Total	0.205J	0.196J	mg/kg	NC	20
Chromium, Total	16.2	15.6	mg/kg	4	20
Copper, Total	11.1	10.0	mg/kg	10	20
Lead, Total	33.6	31.4	mg/kg	7	20
Nickel, Total	13.9	12.7	mg/kg	9	20
Selenium, Total	0.300J	0.277J	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Thallium, Total	0.354J	0.357J	mg/kg	NC	20
Zinc, Total	92.0	86.0	mg/kg	7	20
Total Metals - Mansfield Lab Associated sample(s): 09-11,16,18,23-25 QC Batch ID: WG1800889-4 QC Sample: L2335541-09 Client ID: 8B-1NN (1.5-2.0)					
Mercury, Total	1.41	1.26	mg/kg	11	20
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801412-4 QC Sample: L2337659-11 Client ID: DUP Sample					
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Copper, Dissolved	0.00245	0.00258	mg/l	5	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801416-4 QC Sample: L2335541-02 Client ID: 8B-1NN-GW						
Mercury, Dissolved	0.00065	0.00149	mg/l	**77**	Q	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 20 QC Batch ID: WG1801960-4 QC Sample: L2338995-01 Client ID: DUP Sample						
Arsenic, TCLP	ND	0.0201J	mg/l	NC		20
Barium, TCLP	0.0662J	0.0687J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	0.0609J	0.0665J	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 20 QC Batch ID: WG1801962-4 QC Sample: L2338995-01 Client ID: DUP Sample						
Mercury, TCLP	0.0009JB	0.0006J	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 17 QC Batch ID: WG1802651-4 QC Sample: L2339889-03 Client ID: DUP Sample						
Mercury, Total	0.073J	0.102	mg/kg	NC		20

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 QC Batch ID: WG1796177-6 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)						
Aluminum, Total	9710	10400	mg/kg	7		20
Barium, Total	455	478	mg/kg	5		20
Calcium, Total	21000	22500	mg/kg	7		20
Chromium, Total	83.6	89.1	mg/kg	7		20
Copper, Total	214	215	mg/kg	0		20
Lead, Total	658	657	mg/kg	0		20
Magnesium, Total	2910	3170	mg/kg	9		20
Manganese, Total	802	864	mg/kg	8		20
Zinc, Total	2240	2540	mg/kg	13		20
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 QC Batch ID: WG1796177-6 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)						
Iron, Total	53400	53200	mg/kg	0		20
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-18,23-25 QC Batch ID: WG1800887-6 QC Sample: L2338616-01 Client ID: DUP Sample						
Chromium, Total	16.2	17.7	mg/kg	9		20
Copper, Total	11.1	11.8	mg/kg	6		20
Zinc, Total	92.0	96.9	mg/kg	5		20

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	Serial Dilution	Units	% D	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801296-6 QC Sample: L2338623-01 Client ID: DUP Sample					
Barium, Total	0.1626	0.1467	mg/l	10	20
Calcium, Total	140.	125.	mg/l	11	20
Iron, Total	42.0	38.5	mg/l	8	20
Magnesium, Total	26.4	22.6	mg/l	14	20
Manganese, Total	1.773	1.622	mg/l	9	20
Potassium, Total	27.3	24.2	mg/l	11	20
Sodium, Total	150.	128.	mg/l	15	20

INORGANICS
&
MISCELLANEOUS

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-08
Client ID: 8B-1N (5.0-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 11:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.7		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-09
Client ID: 8B-1NN (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 12:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-10
Client ID: 8B-1NN (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 12:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.1		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-11
Client ID: 8B-1NN (6.0-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 12:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.7		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-12
Client ID: 8B-1E (6.0-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 10:50
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-13
Client ID: 8B-1S (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:55
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-14
Client ID: 8B-1S (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 10:00
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-15
Client ID: 8B-1S (6.5-7.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.3		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-16
Client ID: 8B-1SS (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:20
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-17
Client ID: 8B-1SS (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:25
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.5		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-18
Client ID: 8B-1SS (6.5-7.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-19
Client ID: 8B-1W (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-20
Client ID: 8B-1W (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.1		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-21
Client ID: 8B-1W (6.5-7.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	50.4		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-22
Client ID: 8B-1W (6.5-7.0) DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.1		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-23
Client ID: 8B-1WW (1.0-1.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 11:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.5		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-24
Client ID: 8B-1WW (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 11:50
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.6		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-25
Client ID: 8B-1WW (6.0-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 12:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.2		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26
Client ID: 7-B1W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.1		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-27
Client ID: 7-B1W (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:55
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-28
Client ID: 7-B1W (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-29
Client ID: 7-B1WW (1-1.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-30
Client ID: 7-B1WW (4-4.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.9		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-31
Client ID: 7-B1WW (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.3		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-32
Client ID: 7-B1E (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.9		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-33
Client ID: 7-B1E (4-4.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:20
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-34
Client ID: 7-B1E (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:25
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.1		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-35
Client ID: 7-B1N (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.5		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-36
Client ID: 7-B1N (4-4.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.3		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-40
Client ID: 7-B1S (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:20
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.0		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-41
Client ID: 7-B1S (4-4.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:25
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-42
Client ID: 7-B1S (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 10:30
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.8		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-44
Client ID: 7-B1SS (5-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 11:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.6		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-45
Client ID: 10-B6W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 12:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-46
Client ID: 10-B6W (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 12:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-47
Client ID: 10-B6W (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/20/23 12:10
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-49
Client ID: 10-B6WW (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 13:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.7		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-50
Client ID: 10-B6WW (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 13:10
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-51
Client ID: 10-B6N (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-52
Client ID: 10-B6N (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/20/23 13:35
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.1		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-53
Client ID: 10-B6N (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 13:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.1		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-54
Client ID: 10-B6E (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:20
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-55
Client ID: 10-B6E (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:25
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-56
Client ID: 10-B6E (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-58
Client ID: 10-B6EE (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-59
Client ID: 10-B6EE (5-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:10
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.2		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-60
Client ID: 10-B6S (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.9		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-61
Client ID: 10-B6S (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-62
Client ID: 10-B6S (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 08,12-15,19-22,26-28,32-35 QC Batch ID: WG1794681-1 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)						
Solids, Total	50.4	57.1	%	12		20
General Chemistry - Westborough Lab Associated sample(s): 36,40-42,45-47,51-56,60-62 QC Batch ID: WG1794686-1 QC Sample: L2335541-36 Client ID: 7-B1N (4-4.5)						
Solids, Total	76.3	76.4	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 29-31,44,49-50,58-59 QC Batch ID: WG1798529-1 QC Sample: L2335286-23 Client ID: DUP Sample						
Solids, Total	80.7	81.2	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 09-11,16-18,23-25 QC Batch ID: WG1800906-1 QC Sample: L2335541-09 Client ID: 8B-1NN (1.5-2.0)						
Solids, Total	87.4	87.6	%	0		20

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-01A	Plastic 250ml unpreserved	C	NA		2.8	Y	Absent		-
L2335541-01B	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		TL-6020T(180),BA-6020T(180),SE-6020T(180),FE-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),AG-6020T(180),HG-T(28),AL-6020T(180),CD-6020T(180),MG-6020T(180),CO-6020T(180)
L2335541-01X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		K-6020S(180),V-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),ZN-6020S(180),CO-6020S(180),MG-6020S(180),CA-6020S(180),FE-6020S(180),CR-6020S(180),BA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),NA-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2335541-02A	Plastic 250ml unpreserved	C	NA		2.8	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2335541-02B	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		HOLD-METAL-TOTAL(180)
L2335541-02X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2335541-03A	Plastic 250ml unpreserved	C	NA		2.8	Y	Absent		-
L2335541-03B	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		TL-6020T(180),SE-6020T(180),BA-6020T(180),FE-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),MG-6020T(180),CD-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-03X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		K-6020S(180),SE-6020S(180),CU-6020S(180),V-6020S(180),MN-6020S(180),CO-6020S(180),BE-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),TL-6020S(180),NI-6020S(180),NA-6020S(180),BA-6020S(180),PB-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2335541-04A	Plastic 250ml unpreserved	C	NA		2.8	Y	Absent		-
L2335541-04B	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		BA-6020T(180),SE-6020T(180),FE-6020T(180),TL-6020T(180),K-6020T(180),CR-6020T(180),CA-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),MG-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),CD-6020T(180),CO-6020T(180)
L2335541-04X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		SE-6020S(180),V-6020S(180),CU-6020S(180),K-6020S(180),MN-6020S(180),CO-6020S(180),MG-6020S(180),BE-6020S(180),ZN-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),BA-6020S(180),PB-6020S(180),NA-6020S(180),TL-6020S(180),NI-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),HG-S(28),CD-6020S(180),AL-6020S(180)
L2335541-05A	Plastic 250ml unpreserved	C	NA		2.8	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2335541-05B	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		HOLD-METAL-TOTAL(180)
L2335541-05X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2335541-06A	Plastic 250ml unpreserved	C	NA		2.8	Y	Absent		-
L2335541-06B	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),CR-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),AG-6020T(180),MG-6020T(180),HG-T(28),CD-6020T(180),AL-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-06X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		K-6020S(180),V-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),ZN-6020S(180),MG-6020S(180),CR-6020S(180),FE-6020S(180),CA-6020S(180),TL-6020S(180),NI-6020S(180),PB-6020S(180),BA-6020S(180),NA-6020S(180),AS-6020S(180),SB-6020S(180),AG-6020S(180),AL-6020S(180),HG-S(28),CD-6020S(180)
L2335541-07A	Plastic 250ml unpreserved	C	NA		2.8	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2335541-07B	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		HOLD-METAL-TOTAL(180)
L2335541-07X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2335541-08A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2335541-08B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-09A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-09B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-10A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-10B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-11A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-11B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-12A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2335541-12B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-13A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2335541-13B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-14A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2335541-14B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-15A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2335541-15B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-16A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-16B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-17B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-18A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-18B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-19A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2335541-19B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-20A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2335541-20B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-20X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2335541-20X9	Tumble Vessel	A	NA		4.9	Y	Absent		-

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-21A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2335541-21A1	Glass 60ml unpreserved split	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2335541-21A2	Glass 60ml unpreserved split	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2335541-21B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-21B1	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-21B2	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-21X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2335541-21X1	Plastic 120ml HNO3 preserved Extracts	A	NA		4.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2335541-21X2	Plastic 120ml HNO3 preserved Extracts	A	NA		4.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2335541-21X9	Tumble Vessel	A	NA		4.9	Y	Absent		-
L2335541-22A	Glass 60ml unpreserved split	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2335541-22B	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-23A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-23B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-24A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-24B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-25A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-25B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-26A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2335541-26B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2335541-26C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2335541-26D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-26X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2335541-26Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2335541-26Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2335541-27A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-27B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-27C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-27D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-27X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-27Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14)
L2335541-27Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14)
L2335541-28A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-28B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-28C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-28D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-28X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-28Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14)
L2335541-28Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14)
L2335541-29A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-29B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-29C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-29D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-29X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-29Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:02	NYTCL-8260HLW(14)
L2335541-29Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:02	NYTCL-8260HLW(14)
L2335541-30A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-30B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-30C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-30D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-30X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-30Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:02	NYTCL-8260HLW(14)
L2335541-30Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:02	NYTCL-8260HLW(14)
L2335541-31A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-31B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-31C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-31D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-31X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-31Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:02	NYTCL-8260HLW(14)
L2335541-31Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:02	NYTCL-8260HLW(14)
L2335541-32A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-32B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-32C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-32D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-32X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-32Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14)
L2335541-32Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14)
L2335541-33A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-33B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-33C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-33D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-33X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-33Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-33Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-34A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-34B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-34C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-34D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-34X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-34Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-34Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-35A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-35B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-35C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-35D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-35X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-35Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-35Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-36A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-36B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-36C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-36D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-36X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-36Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-36Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-37A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-37B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-37C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-37D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-37X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-37Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-37Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-38A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-38B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-38C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-38D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-38X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-38Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-38Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-39A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-39B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-39C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-39D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-39X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-39Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-39Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-40A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-40B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-40C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-40D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-40X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-40Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-40Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-41A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-41B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-41C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-41D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-41X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-41Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-41Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-42A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-42B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-42C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-42D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-42X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-42Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-42Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-43A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-43B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-43C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-43D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-43X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-43Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-43Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-44A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-44B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-44C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-44D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-44X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-44Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-44Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-45A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-45B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-45C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-45D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-45X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-45Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-45Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-46A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-46B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-46C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-46D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-46X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-46Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-46Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-47A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-47B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-47C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-47D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-47X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-47Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-47Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-48A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-48B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-48C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-48D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-48X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-48Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-48Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-49A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-49B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-49C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-49D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-49X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-49Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-49Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-50A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-50B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-50C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-50D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-50X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-50Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-50Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-51A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2335541-51B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2335541-51C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2335541-51D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-51X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2335541-51Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2335541-51Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2335541-52A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-52B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-52C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-52D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-52X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-52Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-52Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-53A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-53B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-53C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-53D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-53X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-53Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-53Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-54A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-54B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-54C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-54D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-54X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-54Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-54Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-55A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-55B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-55C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-55D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-55X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-55Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-55Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-56A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-56B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-56C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-56D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-56X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-56Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-56Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-57A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-57B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-57C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-57D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-57X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-57Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-57Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-58A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-58B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-58C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-58D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-58X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-58Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-58Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-59A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-59B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-59C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-59D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-59X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-59Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-59Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-60A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-60B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-60C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-60D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-60X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-60Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-60Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-61A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-61B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-61C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-61D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-61X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-61Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-61Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-62A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-62B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-62C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-62D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-62X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-62Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-62Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-63A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-63B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-63C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-63D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-63X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-63Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-63Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-64A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-64B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-64C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-64D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-64X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-64Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-64Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-65A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-65B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-65C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-65D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-65X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-65Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-65Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	AVANT GARDNER	**Lab Number:**	L2335541
Project Number:	ES22-387153	**Report Date:**	07/19/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2335541
Project Number:	ES22-387153	**Report Date:**	07/19/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2335541
Project Number:	ES22-387153	**Report Date:**	07/19/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2335541
Project Number:	ES22-387153	**Report Date:**	07/19/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
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FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 7

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335541

Client Information

Client: PARTNER
Address: 611 Industrial Way West
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLent@partnereesi.com

Project Information

Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn, NY
Project #: ES22-387153
(Use Project name as Project #) ☒
Project Manager: David Lent
ALPHAQuote #: —

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO # ES22-387153

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

H = HOLD X = RUN

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TAL Metals	Total / Dissolved Metals	TCLP Metals	Total Bottle	Sample Specific Comments
35541-01	8B-1N-GW	6-20-23	1200	GW	AH/DC		X			
-02	8B-1NN-GW	6-20-23	1400	GW			H			
-03	8B-1E-GW	6-20-23	1300	GW			X			
-04	8B-1S-GW	6-20-23	1100	GW			X			
-05	8B-1SS-GW	6-20-23	1000	GW			H			
-06	8B-1W-GW	6-20-23	915	GW			X			
-07	8B-1NW-GW	6-20-23	1330	GW			H			
-08	8B-1N (5.0-5.5)	6-20-23	1115	SOIL		X		H		
-09	8B-1NN (1.5-2.0)	6-20-23	1230	SOIL		H		H		
-10	8B-1NN (4.5-5.0)	6-20-23	1235	SOIL	↓	H		H		

Container Type: A P A
Preservative: A A/C A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6/20/23 1700		6/21/23 11:30
	6/21/23 19:20		6/21 2100
	6/22 0130		6/22 0130
	6/22 0330		6/22/23 0330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 7

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335541

Client Information
Client: Partner
Address: 611 Industrial Way W
Eatontown, NJ
Phone: 732-380-1700
Fax: 732-380-1701
Email: Dlent@partnereslcom.

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave Brooklyn NY
Project # ES22-387153
(Use Project name as Project #) ☒
Project Manager: David Lent.
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO # ES22-387153

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☒ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

X = RUN H = HOLD

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TAL metals	TCLP metals	Total Bottle	Sample Specific Comments
35541-11	SB-BH/NN (6.0-6.5)	6-20-23	1240	SOIL	AHR	H	H		
-12	SB-1E (6.0-6.5)		1050			X	H		
-13	SB-1S (1.5-2.0)		955			X	H		
-14	SB-1S (4.5-5.0)		1000			X	H		
-15	SB-1S (6.5-7.0)		1005			X	H		
-16	SB-1SS (1.5-2.0)		1020			H	H		
-17	SB-1SS (4.5-5.0)		1025			H	H		
-18	SB-1SS (6.5-7.0)		1030			H	H		
-19	SB-1W (1.5-2.0)		935			X	H		
-20	SB-1W (4.5-5.0)		940			X	H		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A
Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	6-20-23 1700		6/21/23 14:30
	6/21/23 1920		6/21 2100
	6/22 0130		6/22 0130
	6/22 0330		6/22/23 03:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 3 of 7

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335541

Client Information

Client: Partner
Address: 611 Industrial Way West, Eatontown, NJ
Phone: 732-380-1700
Fax: 732-380-1701
Email: dlent@partnereng.com

Project Information

Project Name: Avant Gardner
Project Location: 140 Stewart Ave Brooklyn NY
Project #: ES22-357153
(Use Project name as Project #) ☒
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO # ES22-357153

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

X = RUN H = HOLD

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TAL metals	TCL metals	TCL VOCs	Total Bottle	Sample Specific Comments
35541-21	SB-1W (6.5-7.0)	6/2023	945	Soil	AM/BC	X	H			
-21	SB-1W (6.5-7.0) MSD		945			X	H			
-22	SB-1W (6.5-7.0) DUP		945			X	H			
-21	SB-1W (6.5-7.0) MS		945			X	H			
-23	SB-1WW (1.0-1.5)		1145			H	H			
-24	SB-1WW (4.5-5.0)		1150			H	H			
-25	SB-1WW (6.0-6.5)		1200			H	H			
-26	7-B1W (1.5-2)		850					X		
-27	7-B1W (4.5-5)		855					X		
-28	7-B1W (6.5-7)		900					X		

Container Type: A A P
Preservative: A A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6/20/23 1700		6/21/23 14:30
	6/21/23 1920		6/21 2100
	6/22 0130		6/22 0130
	6/22 0330		6/22/23 03:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

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Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 4 of 7

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335541

Client Information
Client: Partner
Address: 61 Industrial Way West Eatontown, NJ 07724
Phone: 732-380-1200
Fax: 732-380-1701
Email: DLane@partnersgcm.com

Project Information
Project Name: Aunt Gardner
Project Location: ~~[illegible]~~ 140 Stewart Ave Brooklyn NY
Project # ES22-
(Use Project name as Project #) ☒
Project Manager: David Lane
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO # ES22-387153.

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☒ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

X = RUN H = HOLD

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	Sample Specific Comments	Total Bottle
35541-29	7-BIWW (1-4.5)	6.20.23	830	SO.1	AH	H		
-30	7-BIWW (4-4.5)		835			H		
-31	7-BIWW (4.5-5)		840			H		
-32	7-BIE (1.5-2)		915			X		
-33	7-BIE (4-4.5)		920			X		
-34	7-BIE (5.5-6)		925			X		
-35	7-BIN (1.5-2)		930			X		
-36	7-BIN (4-4.5)		935			X		
-37	7-BINN (1.5-2)		1000			H		
-38	7-BINN (4-4.5)		1005			H		

Container Type: E E
Preservative: A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6-20-23 1700		6/21/23 14:30
	6/21/23 1920		6/21 2100
	6/22 0130		6/22 0330
	6/22 0330		6/22/23 03:30

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Form No: 01-25 HC (rev. 30-Sept-2013)

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 5 of 7

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335541

Client Information
Client: Partner
Address: 611 Industrial Way West, Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-7701
Email: ALenteparthenon

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project #: ES22-387153
(Use Project name as Project #) ☒
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO # ES22-387153

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility: ☒ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

X = RUN H = HOLD

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	Total Bottle	Sample Specific Comments
35541-39	7-BINN (5.5-6)	6-20-23	1010	Soil	AH	H		
-40	7-B1S (1.5-2)		1020			X		
-41	7-B1S (4-4.5)		1025			X		
-42	7-B1S (5.5-6)		1030			X		
-43	7-B1SS (1.5-2		1135			H		
-44	7-B1SS (5-5.5)		1140			H		
-45	10-B6W (1.5-2)		1200			X		
-46	10-B6W (4.5-5)		1205			X		
-47	10-B6W (7.5-8)		1210			X		
-48	10-B6WW (1.5-2)		1300			H		

Container Type: E
Preservative: A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6-20-23 1200		6/21/23 1430
	6/21/23 1520	MAS	6/21 2100
MAS	6/22/23 0130		6/22 0130
	6/22 0330		6/22/23 03:30

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ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 6 of 7

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335541

Client Information
Client: Partner
Address: 611 Industrial Way W2, Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: Dent@partnereslcm.com

Project Information
Project Name: Avant Garden
Project Location: 140 Stewart Ave, Bklyn NY
Project #: ES22-387153
(Use Project name as Project #): X
Project Manager: Daniel Lent
ALPHAQuote #:

Turn-Around Time
Standard: X — Due Date:
Rush (only if pre approved): ☐ — # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #: ES22-387153

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☒ NJ ☑ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

X= RUN H= HOLD

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	Sample Specific Comments	Total Bottle
35541-49	10-B6 WW (4.5-5)	6-20	1305	SO1	AH	H		
-50 ~~-48~~	10-B6 WW (9.5-10)		1310			H		
(MS/MSD 6/22) -51	10-B6 N (1.5-2)		1330			X		
-52 ~~-51~~	10-B6 N (4.5-5)		1335			X		
-53	10-B6 N (9.5-10)		1340			X		
-54	10-B6 E (1.5-2)		1420			X		
-55	10-B6 E (4.5-5)		1425			X		
-56	10-B6 E (9.5-10)		1430			X		
-57	10-B6 EE (1.5-2)		1400			H		
-58	10-B6 EE (4.5-5)		1405			H		

Container Type: V
Preservative: X

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6/22-23 1700		6/22/23 1420
	6/22/23 19:20		6/23 2100
	6/23 0330		6/23 0330
	6/23 0330	Taylor Dellicker	6/23/23 03:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 7 of 7

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335541

Client Information

Client: Partner
Address: 611 Industrial Way W
Eatontown, NJ 07724
Phone: 732-350-7200
Fax: 732-350-7701
Email: Dlemepartner.com

Project Information

Project Name: PARTNER.
Project Location: 140 Stewart Ave, Brooklyn NY
Project # E22-357153.
(Use Project name as Project #) ☒
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO # E522-357153

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☒ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

H = HOLD X = RUN

Please specify Metals or TAL.

ANALYSIS

TCL VOC;

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC;	Sample Specific Comments
35541-59	10-B6EE(5-5.5)	6/20/23	1410	SO1	AH	H	
-60	10-B65 (1.5-2)		1440			X	
-61	10-B65 (4.5-5)		1445			X	
-62	10-B65 (9.5-10)		1450			X	
-63	10-B655 (1.5-2)		1500			H	
-64	10-B655 (4.5-5)		1505			H	
-65	10-B655 (9.5-10)		1510			H	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	E
Preservative	A

Relinquished By:	Date/Time	Received By:	Date/Time
	6-20-23 1700		6/21/23 1430
	6/21/23 1920	NW	6/21 2100
NW	6/22 0130		6/22 0130
	6/22 0330		6/22/23 03:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

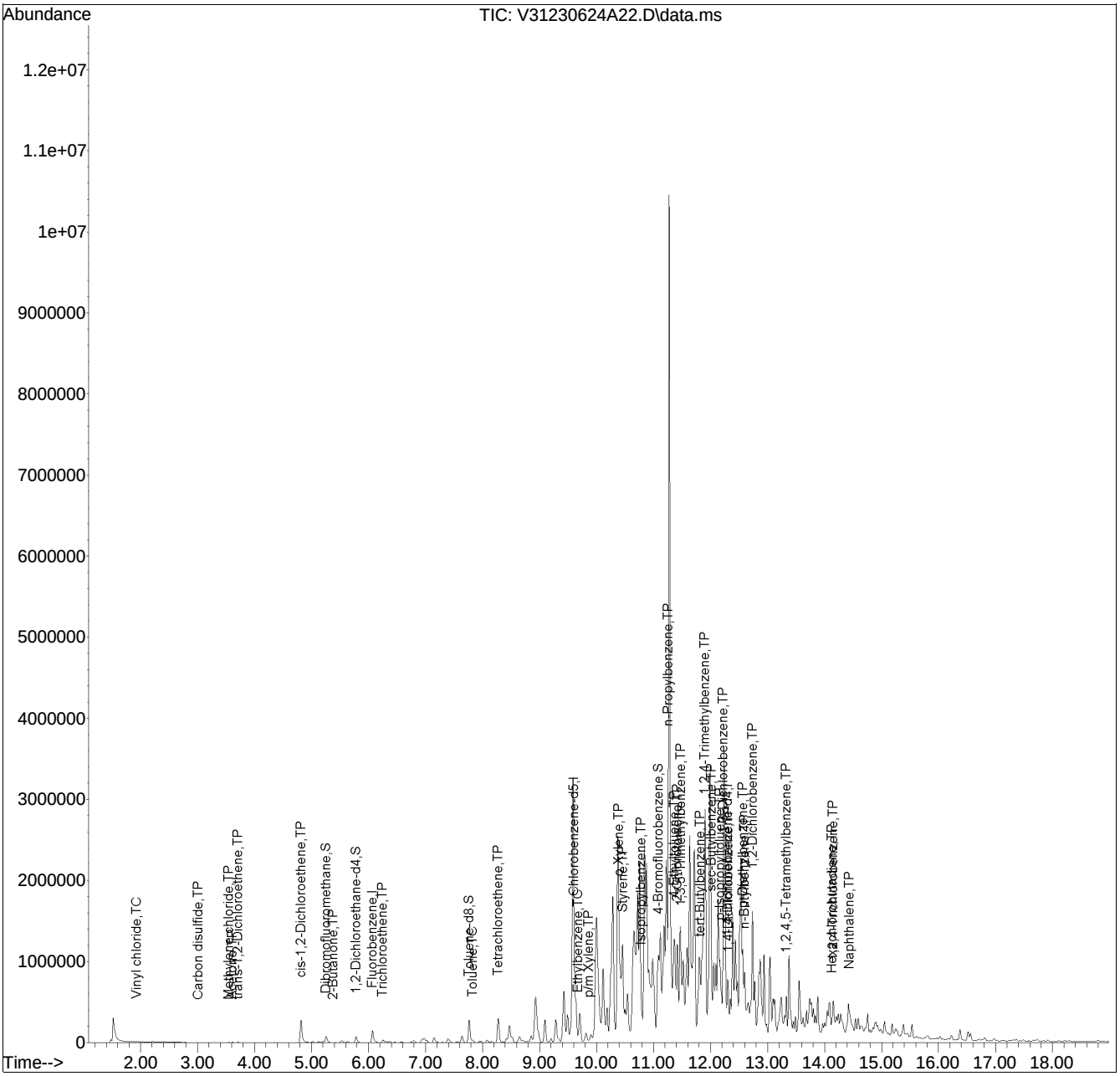
Form No: 01-25 HC (rev. 30-Sept-2013)

Quantitation Report (QT Reviewed)

Data Path : K:\VOA131\2023\230624A\
Data File : V31230624A22.D
Acq On : 24 Jun 2023 03:35 pm
Operator : VOA131:LAC
Sample : L2335541-34,31H,6.09,5,0.100,,X
Misc : WG1797202,ICAL19865
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 27 16:42:43 2023
Quant Method : K:\VOA131\2023\230624A\V31_230328A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 29 10:40:23 2023
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox230624A01.D•



ANALYTICAL REPORT

Lab Number:	L2335538
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER-WC
Project Number:	ES22-387153
Report Date:	07/12/23

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2335538-01	WC-8	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:15	06/21/23
L2335538-02	WC-8	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:15	06/21/23
L2335538-03	WC-7/10	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:30	06/21/23
L2335538-04	WC-7/10	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:30	06/21/23

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Total Metals was subcontracted. A copy of the laboratory report is included as an addendum.

Please note: This data is only available in PDF format and is not available on Data Merger.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 07/12/23

ORGANICS

VOLATILES

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 Date Collected: 06/20/23 13:15
Client ID: WC-8 Date Received: 06/21/23
Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/03/23 17:16
Analyst: JIC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	420	190	1
1,1-Dichloroethane	100		ug/kg	84	12.	1
Chloroform	270		ug/kg	130	12.	1
Carbon tetrachloride	ND		ug/kg	84	19.	1
1,2-Dichloropropane	ND		ug/kg	84	10.	1
Dibromochloromethane	ND		ug/kg	84	12.	1
1,1,2-Trichloroethane	ND		ug/kg	84	22.	1
Tetrachloroethene	41000	E	ug/kg	42	16.	1
Chlorobenzene	ND		ug/kg	42	11.	1
Trichlorofluoromethane	ND		ug/kg	340	59.	1
1,2-Dichloroethane	ND		ug/kg	84	22.	1
1,1,1-Trichloroethane	ND		ug/kg	42	14.	1
Bromodichloromethane	ND		ug/kg	42	9.2	1
trans-1,3-Dichloropropene	ND		ug/kg	84	23.	1
cis-1,3-Dichloropropene	ND		ug/kg	42	13.	1
1,3-Dichloropropene, Total	ND		ug/kg	42	13.	1
1,1-Dichloropropene	ND		ug/kg	42	13.	1
Bromoform	ND		ug/kg	340	21.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	42	14.	1
Benzene	69		ug/kg	42	14.	1
Toluene	130		ug/kg	84	46.	1
Ethylbenzene	93		ug/kg	84	12.	1
Chloromethane	ND		ug/kg	340	79.	1
Bromomethane	ND		ug/kg	170	49.	1
Vinyl chloride	96		ug/kg	84	28.	1
Chloroethane	ND		ug/kg	170	38.	1
1,1-Dichloroethene	33	J	ug/kg	84	20.	1
trans-1,2-Dichloroethene	800		ug/kg	130	12.	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 Date Collected: 06/20/23 13:15

Client ID: WC-8 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	11000		ug/kg	42	12.	1
1,2-Dichlorobenzene	31	J	ug/kg	170	12.	1
1,3-Dichlorobenzene	ND		ug/kg	170	12.	1
1,4-Dichlorobenzene	15	J	ug/kg	170	14.	1
Methyl tert butyl ether	ND		ug/kg	170	17.	1
p/m-Xylene	180		ug/kg	170	47.	1
o-Xylene	74	J	ug/kg	84	24.	1
Xylenes, Total	250	J	ug/kg	84	24.	1
cis-1,2-Dichloroethene	5600		ug/kg	84	15.	1
1,2-Dichloroethene, Total	6400		ug/kg	84	12.	1
Dibromomethane	ND		ug/kg	170	20.	1
Styrene	ND		ug/kg	84	16.	1
Dichlorodifluoromethane	ND		ug/kg	840	77.	1
Acetone	830	J	ug/kg	840	410	1
Carbon disulfide	ND		ug/kg	840	380	1
2-Butanone	ND		ug/kg	840	190	1
Vinyl acetate	ND		ug/kg	840	180	1
4-Methyl-2-pentanone	ND		ug/kg	840	110	1
1,2,3-Trichloropropane	ND		ug/kg	170	11.	1
2-Hexanone	ND		ug/kg	840	100	1
Bromochloromethane	ND		ug/kg	170	17.	1
2,2-Dichloropropane	ND		ug/kg	170	17.	1
1,2-Dibromoethane	ND		ug/kg	84	24.	1
1,3-Dichloropropane	ND		ug/kg	170	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	42	11.	1
Bromobenzene	ND		ug/kg	170	12.	1
n-Butylbenzene	25	J	ug/kg	84	14.	1
sec-Butylbenzene	18	J	ug/kg	84	12.	1
tert-Butylbenzene	ND		ug/kg	170	10.	1
o-Chlorotoluene	ND		ug/kg	170	16.	1
p-Chlorotoluene	ND		ug/kg	170	9.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	84.	1
Hexachlorobutadiene	ND		ug/kg	340	14.	1
Isopropylbenzene	20	J	ug/kg	84	9.2	1
p-Isopropyltoluene	110		ug/kg	84	9.2	1
Naphthalene	340		ug/kg	340	55.	1
Acrylonitrile	ND		ug/kg	340	97.	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 Date Collected: 06/20/23 13:15

Client ID: WC-8 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	41	J	ug/kg	84	14.	1
1,2,3-Trichlorobenzene	ND		ug/kg	170	27.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	23.	1
1,3,5-Trimethylbenzene	44	J	ug/kg	170	16.	1
1,2,4-Trimethylbenzene	95	J	ug/kg	170	28.	1
1,4-Dioxane	ND		ug/kg	6800	3000	1
p-Diethylbenzene	ND		ug/kg	170	15.	1
p-Ethyltoluene	120	J	ug/kg	170	32.	1
1,2,4,5-Tetramethylbenzene	20	J	ug/kg	170	16.	1
Ethyl ether	ND		ug/kg	170	29.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	420	120	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	96		70-130

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 D
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/01/23 18:24
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	46000		ug/kg	1000	410	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04 Date Collected: 06/20/23 13:30
Client ID: WC-7/10 Date Received: 06/21/23
Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/01/23 19:06
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	340	160	1
1,1-Dichloroethane	ND		ug/kg	68	9.9	1
Chloroform	34	J	ug/kg	100	9.5	1
Carbon tetrachloride	ND		ug/kg	68	16.	1
1,2-Dichloropropane	ND		ug/kg	68	8.5	1
Dibromochloromethane	ND		ug/kg	68	9.5	1
1,1,2-Trichloroethane	ND		ug/kg	68	18.	1
Tetrachloroethene	3500		ug/kg	34	13.	1
Chlorobenzene	ND		ug/kg	34	8.6	1
Trichlorofluoromethane	ND		ug/kg	270	47.	1
1,2-Dichloroethane	ND		ug/kg	68	18.	1
1,1,1-Trichloroethane	ND		ug/kg	34	11.	1
Bromodichloromethane	ND		ug/kg	34	7.4	1
trans-1,3-Dichloropropene	ND		ug/kg	68	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	34	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	34	11.	1
1,1-Dichloropropene	ND		ug/kg	34	11.	1
Bromoform	ND		ug/kg	270	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	11.	1
Benzene	ND		ug/kg	34	11.	1
Toluene	45	J	ug/kg	68	37.	1
Ethylbenzene	13	J	ug/kg	68	9.6	1
Chloromethane	ND		ug/kg	270	63.	1
Bromomethane	ND		ug/kg	140	40.	1
Vinyl chloride	ND		ug/kg	68	23.	1
Chloroethane	ND		ug/kg	140	31.	1
1,1-Dichloroethene	ND		ug/kg	68	16.	1
trans-1,2-Dichloroethene	52	J	ug/kg	100	9.3	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04 Date Collected: 06/20/23 13:30

Client ID: WC-7/10 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	480		ug/kg	34	9.3	1
1,2-Dichlorobenzene	230		ug/kg	140	9.8	1
1,3-Dichlorobenzene	ND		ug/kg	140	10.	1
1,4-Dichlorobenzene	44	J	ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	41	J	ug/kg	140	38.	1
o-Xylene	ND		ug/kg	68	20.	1
Xylenes, Total	41	J	ug/kg	68	20.	1
cis-1,2-Dichloroethene	540		ug/kg	68	12.	1
1,2-Dichloroethene, Total	590	J	ug/kg	68	9.3	1
Dibromomethane	ND		ug/kg	140	16.	1
Styrene	16	J	ug/kg	68	13.	1
Dichlorodifluoromethane	ND		ug/kg	680	62.	1
Acetone	ND		ug/kg	680	330	1
Carbon disulfide	ND		ug/kg	680	310	1
2-Butanone	ND		ug/kg	680	150	1
Vinyl acetate	ND		ug/kg	680	150	1
4-Methyl-2-pentanone	ND		ug/kg	680	87.	1
1,2,3-Trichloropropane	ND		ug/kg	140	8.6	1
2-Hexanone	ND		ug/kg	680	80.	1
Bromochloromethane	ND		ug/kg	140	14.	1
2,2-Dichloropropane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	68	19.	1
1,3-Dichloropropane	ND		ug/kg	140	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	9.0	1
Bromobenzene	ND		ug/kg	140	9.9	1
n-Butylbenzene	15	J	ug/kg	68	11.	1
sec-Butylbenzene	16	J	ug/kg	68	9.9	1
tert-Butylbenzene	ND		ug/kg	140	8.0	1
o-Chlorotoluene	14	J	ug/kg	140	13.	1
p-Chlorotoluene	ND		ug/kg	140	7.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	68.	1
Hexachlorobutadiene	ND		ug/kg	270	12.	1
Isopropylbenzene	ND		ug/kg	68	7.4	1
p-Isopropyltoluene	26	J	ug/kg	68	7.4	1
Naphthalene	130	J	ug/kg	270	44.	1
Acrylonitrile	ND		ug/kg	270	78.	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04 Date Collected: 06/20/23 13:30

Client ID: WC-7/10 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	18	J	ug/kg	68	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	18.	1
1,3,5-Trimethylbenzene	31	J	ug/kg	140	13.	1
1,2,4-Trimethylbenzene	83	J	ug/kg	140	23.	1
1,4-Dioxane	ND		ug/kg	5400	2400	1
p-Diethylbenzene	87	J	ug/kg	140	12.	1
p-Ethyltoluene	45	J	ug/kg	140	26.	1
1,2,4,5-Tetramethylbenzene	20	J	ug/kg	140	13.	1
Ethyl ether	ND		ug/kg	140	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	340	97.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 13:47
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1799167-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 13:47
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1799167-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 13:47
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1799167-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 10:44
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,04 Batch: WG1800206-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 10:44
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,04 Batch: WG1800206-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	19	J	ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 10:44
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,04 Batch: WG1800206-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
Methylene chloride	87		89		70-130	2		30
1,1-Dichloroethane	93		94		70-130	1		30
Chloroform	92		96		70-130	4		30
Carbon tetrachloride	87		86		70-130	1		30
1,2-Dichloropropane	87		89		70-130	2		30
Dibromochloromethane	82		84		70-130	2		30
1,1,2-Trichloroethane	88		91		70-130	3		30
Tetrachloroethene	77		79		70-130	3		30
Chlorobenzene	83		85		70-130	2		30
Trichlorofluoromethane	83		86		70-139	4		30
1,2-Dichloroethane	97		96		70-130	1		30
1,1,1-Trichloroethane	95		98		70-130	3		30
Bromodichloromethane	92		93		70-130	1		30
trans-1,3-Dichloropropene	84		88		70-130	5		30
cis-1,3-Dichloropropene	88		88		70-130	0		30
1,1-Dichloropropene	94		96		70-130	2		30
Bromoform	83		86		70-130	4		30
1,1,2,2-Tetrachloroethane	86		89		70-130	3		30
Benzene	92		93		70-130	1		30
Toluene	84		86		70-130	2		30
Ethylbenzene	88		90		70-130	2		30
Chloromethane	70		70		52-130	0		30
Bromomethane	102		102		57-147	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
Vinyl chloride	78		77		67-130	1		30
Chloroethane	78		77		50-151	1		30
1,1-Dichloroethene	78		82		65-135	5		30
trans-1,2-Dichloroethene	89		86		70-130	3		30
Trichloroethene	94		94		70-130	0		30
1,2-Dichlorobenzene	80		83		70-130	4		30
1,3-Dichlorobenzene	81		83		70-130	2		30
1,4-Dichlorobenzene	80		82		70-130	2		30
Methyl tert butyl ether	108		108		66-130	0		30
p/m-Xylene	85		87		70-130	2		30
o-Xylene	86		88		70-130	2		30
cis-1,2-Dichloroethene	87		87		70-130	0		30
Dibromomethane	87		89		70-130	2		30
Styrene	88		90		70-130	2		30
Dichlorodifluoromethane	83		82		30-146	1		30
Acetone	114		118		54-140	3		30
Carbon disulfide	76		77		59-130	1		30
2-Butanone	74		75		70-130	1		30
Vinyl acetate	76		74		70-130	3		30
4-Methyl-2-pentanone	86		89		70-130	3		30
1,2,3-Trichloropropane	92		96		68-130	4		30
2-Hexanone	74		76		70-130	3		30
Bromochloromethane	84		83		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
2,2-Dichloropropane	88		88		70-130	0		30
1,2-Dibromoethane	85		90		70-130	6		30
1,3-Dichloropropane	88		91		69-130	3		30
1,1,1,2-Tetrachloroethane	84		86		70-130	2		30
Bromobenzene	81		84		70-130	4		30
n-Butylbenzene	88		90		70-130	2		30
sec-Butylbenzene	87		89		70-130	2		30
tert-Butylbenzene	82		84		70-130	2		30
o-Chlorotoluene	102		105		70-130	3		30
p-Chlorotoluene	87		89		70-130	2		30
1,2-Dibromo-3-chloropropane	77		81		68-130	5		30
Hexachlorobutadiene	86		90		67-130	5		30
Isopropylbenzene	86		88		70-130	2		30
p-Isopropyltoluene	82		86		70-130	5		30
Naphthalene	77		81		70-130	5		30
Acrylonitrile	102		102		70-130	0		30
n-Propylbenzene	87		88		70-130	1		30
1,2,3-Trichlorobenzene	86		90		70-130	5		30
1,2,4-Trichlorobenzene	85		88		70-130	3		30
1,3,5-Trimethylbenzene	87		89		70-130	2		30
1,2,4-Trimethylbenzene	85		87		70-130	2		30
1,4-Dioxane	87		94		65-136	8		30
p-Diethylbenzene	81		82		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
p-Ethyltoluene	84		87		70-130	4		30
1,2,4,5-Tetramethylbenzene	81		84		70-130	4		30
Ethyl ether	87		91		67-130	4		30
trans-1,4-Dichloro-2-butene	88		97		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		110		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	106		105		70-130
Dibromofluoromethane	101		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
Methylene chloride	76		74		70-130	3		30
1,1-Dichloroethane	82		77		70-130	6		30
Chloroform	83		79		70-130	5		30
Carbon tetrachloride	79		73		70-130	8		30
1,2-Dichloropropane	84		83		70-130	1		30
Dibromochloromethane	91		92		70-130	1		30
1,1,2-Trichloroethane	84		86		70-130	2		30
Tetrachloroethene	87		80		70-130	8		30
Chlorobenzene	88		83		70-130	6		30
Trichlorofluoromethane	77		70		70-139	10		30
1,2-Dichloroethane	86		87		70-130	1		30
1,1,1-Trichloroethane	83		77		70-130	8		30
Bromodichloromethane	88		87		70-130	1		30
trans-1,3-Dichloropropene	92		92		70-130	0		30
cis-1,3-Dichloropropene	93		92		70-130	1		30
1,1-Dichloropropene	83		75		70-130	10		30
Bromoform	87		87		70-130	0		30
1,1,2,2-Tetrachloroethane	84		86		70-130	2		30
Benzene	84		80		70-130	5		30
Toluene	83		78		70-130	6		30
Ethylbenzene	86		79		70-130	8		30
Chloromethane	79		74		52-130	7		30
Bromomethane	93		84		57-147	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
Vinyl chloride	76		69		67-130	10		30
Chloroethane	80		75		50-151	6		30
1,1-Dichloroethene	81		72		65-135	12		30
trans-1,2-Dichloroethene	85		79		70-130	7		30
Trichloroethene	81		77		70-130	5		30
1,2-Dichlorobenzene	84		82		70-130	2		30
1,3-Dichlorobenzene	87		83		70-130	5		30
1,4-Dichlorobenzene	88		84		70-130	5		30
Methyl tert butyl ether	98		100		66-130	2		30
p/m-Xylene	90		85		70-130	6		30
o-Xylene	89		84		70-130	6		30
cis-1,2-Dichloroethene	84		80		70-130	5		30
Dibromomethane	86		88		70-130	2		30
Styrene	94		90		70-130	4		30
Dichlorodifluoromethane	71		63		30-146	12		30
Acetone	81		80		54-140	1		30
Carbon disulfide	80		74		59-130	8		30
2-Butanone	83		83		70-130	0		30
Vinyl acetate	86		87		70-130	1		30
4-Methyl-2-pentanone	87		87		70-130	0		30
1,2,3-Trichloropropane	83		83		68-130	0		30
2-Hexanone	81		82		70-130	1		30
Bromochloromethane	90		89		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
2,2-Dichloropropane	86		78		70-130	10		30
1,2-Dibromoethane	90		92		70-130	2		30
1,3-Dichloropropane	86		85		69-130	1		30
1,1,1,2-Tetrachloroethane	88		85		70-130	3		30
Bromobenzene	83		80		70-130	4		30
n-Butylbenzene	89		82		70-130	8		30
sec-Butylbenzene	80		73		70-130	9		30
tert-Butylbenzene	78		73		70-130	7		30
o-Chlorotoluene	95		78		70-130	20		30
p-Chlorotoluene	86		82		70-130	5		30
1,2-Dibromo-3-chloropropane	84		85		68-130	1		30
Hexachlorobutadiene	83		75		67-130	10		30
Isopropylbenzene	82		76		70-130	8		30
p-Isopropyltoluene	85		78		70-130	9		30
Naphthalene	82		83		70-130	1		30
Acrylonitrile	82		81		70-130	1		30
n-Propylbenzene	84		77		70-130	9		30
1,2,3-Trichlorobenzene	85		83		70-130	2		30
1,2,4-Trichlorobenzene	95		92		70-130	3		30
1,3,5-Trimethylbenzene	86		80		70-130	7		30
1,2,4-Trimethylbenzene	85		81		70-130	5		30
1,4-Dioxane	88		88		65-136	0		30
p-Diethylbenzene	87		80		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
p-Ethyltoluene	85		80		70-130	6		30
1,2,4,5-Tetramethylbenzene	84		80		70-130	5		30
Ethyl ether	91		93		67-130	2		30
trans-1,4-Dichloro-2-butene	88		88		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		106		70-130
Toluene-d8	99		97		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	99		101		70-130

SEMIVOLATILES

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/03/23 03:15
Analyst: JG
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 10:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	170	22.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
Fluoranthene	1000		ug/kg	120	24.	1
Naphthalene	980		ug/kg	210	25.	1
Benzo(a)anthracene	560		ug/kg	120	24.	1
Benzo(a)pyrene	560		ug/kg	170	51.	1
Benzo(b)fluoranthene	990		ug/kg	120	35.	1
Benzo(k)fluoranthene	280		ug/kg	120	33.	1
Chrysene	710		ug/kg	120	22.	1
Acenaphthylene	360		ug/kg	170	32.	1
Anthracene	440		ug/kg	120	41.	1
Benzo(ghi)perylene	590		ug/kg	170	24.	1
Fluorene	130	J	ug/kg	210	20.	1
Phenanthrene	900		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	160		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	660		ug/kg	170	29.	1
Pyrene	800		ug/kg	120	21.	1
2-Methylnaphthalene	310		ug/kg	250	25.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	60		30-120
4-Terphenyl-d14	49		18-120

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/03/23 03:39
Analyst: EJL
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 10:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	55	J	ug/kg	150	20.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
Fluoranthene	560		ug/kg	120	22.	1
Naphthalene	82	J	ug/kg	190	24.	1
Benzo(a)anthracene	290		ug/kg	120	22.	1
Benzo(a)pyrene	270		ug/kg	150	47.	1
Benzo(b)fluoranthene	330		ug/kg	120	33.	1
Benzo(k)fluoranthene	96	J	ug/kg	120	31.	1
Chrysene	330		ug/kg	120	20.	1
Acenaphthylene	30	J	ug/kg	150	30.	1
Anthracene	120		ug/kg	120	38.	1
Benzo(ghi)perylene	180		ug/kg	150	23.	1
Fluorene	68	J	ug/kg	190	19.	1
Phenanthrene	460		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	45	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	180		ug/kg	150	27.	1
Pyrene	510		ug/kg	120	19.	1
2-Methylnaphthalene	78	J	ug/kg	230	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	62		30-120
4-Terphenyl-d14	44		18-120

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 06/30/23 11:58
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 06/27/23 10:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1796586-1					
Acenaphthene	ND		ug/kg	130	17.
2-Chloronaphthalene	ND		ug/kg	170	16.
Fluoranthene	ND		ug/kg	100	19.
Naphthalene	ND		ug/kg	170	20.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	41.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
2-Methylnaphthalene	ND		ug/kg	200	20.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	68		30-120
4-Terphenyl-d14	75		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1796586-2 WG1796586-3								
Acenaphthene	75		68		31-137	10		50
2-Chloronaphthalene	75		68		40-140	10		50
Fluoranthene	76		69		40-140	10		50
Naphthalene	76		70		40-140	8		50
Benzo(a)anthracene	80		72		40-140	11		50
Benzo(a)pyrene	87		80		40-140	8		50
Benzo(b)fluoranthene	79		72		40-140	9		50
Benzo(k)fluoranthene	81		73		40-140	10		50
Chrysene	79		73		40-140	8		50
Acenaphthylene	81		73		40-140	10		50
Anthracene	78		71		40-140	9		50
Benzo(ghi)perylene	81		73		40-140	10		50
Fluorene	75		68		40-140	10		50
Phenanthrene	76		70		40-140	8		50
Dibenzo(a,h)anthracene	81		73		40-140	10		50
Indeno(1,2,3-cd)pyrene	85		77		40-140	10		50
Pyrene	76		69		35-142	10		50
2-Methylnaphthalene	77		72		40-140	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1796586-2 WG1796586-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	91		84		23-120
2-Fluorobiphenyl	72		65		30-120
4-Terphenyl-d14	75		67		18-120

PETROLEUM HYDROCARBONS

Project Name: AVANT GARDNER-WC
Lab Number: L2335538
Project Number: ES22-387153
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 06/28/23 08:59
Analyst: SC
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	380000		ug/kg	41000	2300	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		40-140

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 07/02/23 14:24
Analyst: KJD
Percent Solids: 79%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	4100		ug/kg	3000	57.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		70-130
4-Bromofluorobenzene	84		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 06/28/23 09:50
Analyst: SC
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	93000		ug/kg	39000	2100	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	62		40-140

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 07/02/23 15:52
Analyst: KJD
Percent Solids: 86%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	15000		ug/kg	2600	50.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	98		70-130
4-Bromofluorobenzene	89		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 06/28/23 08:34
Analyst: SC

Extraction Method: EPA 3546
Extraction Date: 06/27/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL
Diesel Range Organics - Westborough Lab for sample(s): 01,03 Batch: WG1796899-1					
DRO (C10-C28)	2800	J	ug/kg	33000	1800

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	55		40-140

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 07/02/23 13:55
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 01,03 Batch: WG1799130-4					
Gasoline Range Organics	700	J	ug/kg	2500	48.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	101		70-130
4-Bromofluorobenzene	87		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab	Associated sample(s): 01,03		Batch: WG1796899-2					
DRO (C10-C28)	87		-		60-140	-		

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	70				40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab	Associated sample(s): 01,03		Batch: WG1799130-2 WG1799130-3					
Gasoline Range Organics	89		93		80-120	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	105		107		70-130
4-Bromofluorobenzene	91		93		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1799130-6 QC Sample: L2335538-01 Client ID: WC-8												
Gasoline Range Organics	4100	23600	25000	87		-	-		80-120	-		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	106				70-130
4-Bromofluorobenzene	93				70-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1796899-3 QC Sample: L2335538-01 Client ID: WC-8						
DRO (C10-C28)	380000	310000	ug/kg	20		20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		53		40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1799130-5 QC Sample: L2335538-01 Client ID: WC-8						
Gasoline Range Organics	4100	4100	ug/kg	0		20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		103		70-130
4-Bromofluorobenzene	84		91		70-130

PCBS

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/28/23 09:02
Analyst: ER
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 19:18
Cleanup Method: EPA 3665A
Cleanup Date: 06/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 06/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	58.0	5.15	1	A
Aroclor 1221	ND		ug/kg	58.0	5.81	1	A
Aroclor 1232	ND		ug/kg	58.0	12.3	1	A
Aroclor 1242	ND		ug/kg	58.0	7.82	1	A
Aroclor 1248	ND		ug/kg	58.0	8.70	1	A
Aroclor 1254	ND		ug/kg	58.0	6.34	1	A
Aroclor 1260	ND		ug/kg	58.0	10.7	1	A
Aroclor 1262	ND		ug/kg	58.0	7.36	1	A
Aroclor 1268	ND		ug/kg	58.0	6.01	1	A
PCBs, Total	ND		ug/kg	58.0	5.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/28/23 09:11
Analyst: ER
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 19:18
Cleanup Method: EPA 3665A
Cleanup Date: 06/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 06/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.2	4.90	1	A
Aroclor 1221	ND		ug/kg	55.2	5.53	1	A
Aroclor 1232	ND		ug/kg	55.2	11.7	1	A
Aroclor 1242	ND		ug/kg	55.2	7.44	1	A
Aroclor 1248	ND		ug/kg	55.2	8.28	1	A
Aroclor 1254	ND		ug/kg	55.2	6.04	1	A
Aroclor 1260	23.7	J	ug/kg	55.2	10.2	1	B
Aroclor 1262	ND		ug/kg	55.2	7.01	1	A
Aroclor 1268	ND		ug/kg	55.2	5.72	1	A
PCBs, Total	23.7	J	ug/kg	55.2	4.90	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/28/23 08:37
Analyst: ER

Extraction Method: EPA 3546
Extraction Date: 06/27/23 19:18
Cleanup Method: EPA 3665A
Cleanup Date: 06/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 06/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03 Batch: WG1796876-1						
Aroclor 1016	ND		ug/kg	47.6	4.23	A
Aroclor 1221	ND		ug/kg	47.6	4.77	A
Aroclor 1232	ND		ug/kg	47.6	10.1	A
Aroclor 1242	ND		ug/kg	47.6	6.42	A
Aroclor 1248	ND		ug/kg	47.6	7.14	A
Aroclor 1254	ND		ug/kg	47.6	5.21	A
Aroclor 1260	ND		ug/kg	47.6	8.80	A
Aroclor 1262	ND		ug/kg	47.6	6.05	A
Aroclor 1268	ND		ug/kg	47.6	4.93	A
PCBs, Total	ND		ug/kg	47.6	4.23	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	87		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG1796876-2 WG1796876-3									
Aroclor 1016	58		62		40-140	7		50	A
Aroclor 1260	54		58		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		74		30-150	A
Decachlorobiphenyl	65		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		77		30-150	B
Decachlorobiphenyl	79		85		30-150	B

METALS

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01 Date Collected: 06/20/23 13:15

Client ID: WC-8 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 06/23/23 03:26

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Barium, TCLP	0.460	J	mg/l	0.500	0.0210	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Lead, TCLP	0.122	J	mg/l	0.500	0.0270	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/23 12:33	07/05/23 12:22	EPA 7470A	1,7470A	GMG
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC

Project Name: AVANT GARDNER-WC
Lab Number: L2335538
Project Number: ES22-387153
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY
Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%
TCLP/SPLP Ext. Date: 06/23/23 03:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Barium, TCLP	0.224	J	mg/l	0.500	0.0210	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Lead, TCLP	0.0426	J	mg/l	0.500	0.0270	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/23 12:33	07/05/23 12:25	EPA 7470A	1,7470A	GMG
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01,03 Batch: WG1795975-1										
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Barium, TCLP	ND		mg/l	0.500	0.0210	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Lead, TCLP	ND		mg/l	0.500	0.0270	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 06/23/23 03:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01,03 Batch: WG1795976-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/23 12:33	06/27/23 08:24	1,7470A	GMG

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 06/23/23 03:26

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 Batch: WG1795975-2								
Arsenic, TCLP	102		-		75-125	-		20
Barium, TCLP	101		-		75-125	-		20
Cadmium, TCLP	104		-		75-125	-		20
Chromium, TCLP	104		-		75-125	-		20
Lead, TCLP	98		-		75-125	-		20
Selenium, TCLP	101		-		75-125	-		20
Silver, TCLP	102		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 Batch: WG1795976-2								
Mercury, TCLP	100		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795975-3 QC Sample: L2334865-01 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.23	102		-	-		75-125	-		20
Barium, TCLP	0.478J	20	20.6	103		-	-		75-125	-		20
Cadmium, TCLP	ND	0.53	0.543	102		-	-		75-125	-		20
Chromium, TCLP	ND	2	2.05	102		-	-		75-125	-		20
Lead, TCLP	0.258J	5.3	5.43	102		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.21	101		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.499	100		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795976-3 QC Sample: L2334941-01 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0246	98		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795975-4 QC Sample: L2334865-01 Client ID: DUP Sample						
Lead, TCLP	0.258J	0.258J	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795976-4 QC Sample: L2334941-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

SAMPLE RESULTS

Lab ID:	L2335538-01	Date Collected:	06/20/23 13:15
Client ID:	WC-8	Date Received:	06/21/23
Sample Location:	140 STEWART AVE, BROOKLYN NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/03/23 19:00	1,1030	GEF

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

SAMPLE RESULTS

Lab ID:	L2335538-03	Date Collected:	06/20/23 13:30
Client ID:	WC-7/10	Date Received:	06/21/23
Sample Location:	140 STEWART AVE, BROOKLYN NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/03/23 19:00	1,1030	GEF

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.9		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI
pH (H)	7.30		SU	-	NA	1	-	07/11/23 06:00	1,9045D	OCF
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:21	125,7.3	QJM
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:51	125,7.3	QJM
Paint Filter Liquid	Negative		-	0	NA	1	-	06/22/23 17:26	1,9095B	AAS

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI
pH (H)	8.00		SU	-	NA	1	-	07/11/23 06:00	1,9045D	OCF
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:21	125,7.3	QJM
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:52	125,7.3	QJM
Paint Filter Liquid	Negative		-	0	NA	1	-	06/22/23 17:26	1,9095B	AAS

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.7		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,03 Batch: WG1798695-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:44	125,7.3	QJM
General Chemistry - Westborough Lab for sample(s): 01,03 Batch: WG1798697-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:12	125,7.3	QJM

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03 Batch: WG1798695-2								
Sulfide, Reactive	71		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 Batch: WG1798697-2								
Cyanide, Reactive	78		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 Batch: WG1801607-1								
pH	100		-		99-101	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1794681-1 QC Sample: L2335541-21 Client ID: DUP Sample						
Solids, Total	50.4	57.1	%	12		20
General Chemistry - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1798695-3 QC Sample: L2334851-07 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1798697-3 QC Sample: L2334851-07 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1801607-2 QC Sample: L2337685-01 Client ID: DUP Sample						
pH	7.24	7.30	SU	1		5

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335538-01A	Vial Large Septa unpreserved (4oz)	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-01B	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		SUB-METALS 6010(180)
L2335538-01C	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),NYTCL-PAH(14),REACTS(14),TS(7),TPH-DRO(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2335538-01D	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),NYTCL-PAH(14),REACTS(14),TS(7),TPH-DRO(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2335538-01E	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),NYTCL-PAH(14),REACTS(14),TS(7),TPH-DRO(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2335538-01W	Plastic 120ml HNO3 preserved Extracts	A	NA		2.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2335538-01X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-01X9	Tumble Vessel	A	NA		2.9	Y	Absent		-
L2335538-02A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2335538-02X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02Y	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)
L2335538-02Z	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)
L2335538-03A	Vial Large Septa unpreserved (4oz)	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-03B	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		SUB-METALS 6010(180)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335538-03C	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-PAH(14),TPH-DRO(14),TS(7),PH-9045(1),PAINTF(),REACTCN(14),NYTCL-8082(365)
L2335538-03D	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-PAH(14),TPH-DRO(14),TS(7),PH-9045(1),PAINTF(),REACTCN(14),NYTCL-8082(365)
L2335538-03E	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-PAH(14),TPH-DRO(14),TS(7),PH-9045(1),PAINTF(),REACTCN(14),NYTCL-8082(365)
L2335538-03W	Plastic 120ml HNO3 preserved Extracts	A	NA		2.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2335538-03X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-03X9	Tumble Vessel	A	NA		2.9	Y	Absent		-
L2335538-04A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2335538-04X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04Y	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)
L2335538-04Z	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335536

Client Information
Client: PARTNER
Address: 611 Industrial Way West
Eatontown, NJ 07724
Phone: 732 389 1700
Fax: 732-389-1701
Email: DLent@partnereic.com

Project Information
Project Name: Avon Gardens - WC
Project Location: 140 Stewart Ave, Bradley Beach, NJ
Project #: E522-387153
(Use Project name as Project #) ☒
Project Manager: David Lent
ALPHAQuote #: —

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO # E522-387153

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☒ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TPH (8015B)	VOCs	PAHs	Total RCRA Metals	TCLP RCRA Metals	PCBs	Ignitability, Corrosivity, Reactivity	Paint Filter	Sample Specific Comments	Total Bottle
35538-01	WC-8	6-20-23	1315	SOIL	ABC	X		X	X	X	X	X	X		
02	WC-8	↓	1315	SOIL	BC		X								
03	WC-7/10		1330	SOIL	BC	X		X	X	X	X	X	X		
04	WC-7/10	↓	1330	SOIL	BC		X								

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	E	A	A	A	A	A	A	
Preservative	A	A	A	A	A	A	A	A	

Relinquished By:	Date/Time	Received By:	Date/Time
	6/22/23 1700		6/22/23 16:30
	6/22/23 1730		6/22 2100
	6/22/23 0130		6/22 0130
	6/22 0330		6/23 03:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

APL
AQUA PRO-TECH LABORATORIES
A Pace® Analytical Laboratory
1275 Bloomfield Avenue, Fairfield, NJ 07004 (973) 227-0422

ANALYTICAL RESULTS

STANDARD DELIVERABLES FORMAT

APL WORK ORDER NUMBER: 23F1150

Alpha Analytical Laboratories

Project: L2335538

Sudip Pradhan
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

Report Date: Jul 12, 2023

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

L2335538

Client: Alpha Analytical Laboratories **Contact:** Sub Reporting

APL Order ID: 23F1150 **Received:** 06/23/23 08:45

Sample ID/Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
23F1150-01 (Soil)	WC-8			Collected: 06/20/23 13:15				
General Chemistry								
Percent Solids	Gravimetric	06/23/23 18:41	06/26/23 10:30	**80.3**				**%**
23F1150-01 (Soil)	WC-8			Collected: 06/20/23 13:15				
Total Metals								
Arsenic	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**13.8**			**1.53**	**mg/kg dry**
Barium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**119**			**0.610**	**mg/kg dry**
Cadmium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**0.949**			**0.305**	**mg/kg dry**
Chromium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**24.2**			**0.305**	**mg/kg dry**
Lead	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**250**			**1.53**	**mg/kg dry**
Selenium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	ND	U		1.53	mg/kg dry
Silver	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**0.216**			**0.183**	**mg/kg dry**
Mercury	SW 846 7473	06/26/23 12:39	06/26/23 12:39	**6.25**			**0.0249**	**mg/kg dry**
23F1150-02 (Soil)	WC-7/10			Collected: 06/20/23 13:30				
General Chemistry								
Percent Solids	Gravimetric	06/23/23 18:41	06/26/23 10:30	**84.1**				**%**
23F1150-02 (Soil)	WC-7/10			Collected: 06/20/23 13:30				
Total Metals								
Arsenic	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**4.25**			**1.42**	**mg/kg dry**
Barium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**44.4**			**0.567**	**mg/kg dry**
Cadmium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**0.343**			**0.283**	**mg/kg dry**
Chromium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**34.0**			**0.283**	**mg/kg dry**
Lead	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**58.9**			**1.42**	**mg/kg dry**
Selenium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	ND	U		1.42	mg/kg dry
Silver	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**0.197**			**0.170**	**mg/kg dry**
Mercury	SW 846 7473	06/26/23 12:39	06/26/23 12:39	**0.888**			**0.0238**	**mg/kg dry**

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation
D1 - Sample was Decanted (Dissolved)

Subcontract Chain of Custody

Aqua Pro-Tech Laboratories (APL)
1275 Bloomfield Ave.
Bldg. 6
Fairfield, NJ 07004

Alpha Job Number
L2335538

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 508.439.5155
Email: mvitanza@alphalab.com

Project Information

Project Location: NY
Project Manager: Marty Vitanza

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:

Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2335538

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com TRCRA8, CATB

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
23F1150-01	WC-8	06-20-23 13:15	SOIL	Metals 6010	
-02	WC-7/10	06-20-23 13:30	SOIL	Metals 6010	

APL 23F1150
AQUA PRO-TECH LABORATORIES
www.aquaprotechlabs.com

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/22/23		6/22/23 17:30
		6/22/23 22:20		6/23/23 22:35
		6/23/23 8:45		6-23-23 7:30

Form No: AL_subcoc

ANALYTICAL REPORT

Lab Number:	L2335538
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER-WC
Project Number:	ES22-387153
Report Date:	07/12/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2335538-01	WC-8	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:15	06/21/23
L2335538-02	WC-8	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:15	06/21/23
L2335538-03	WC-7/10	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:30	06/21/23
L2335538-04	WC-7/10	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:30	06/21/23

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Total Metals was subcontracted. A copy of the laboratory report is included as an addendum.

Please note: This data is only available in PDF format and is not available on Data Merger.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 07/12/23

ORGANICS

VOLATILES

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 Date Collected: 06/20/23 13:15
Client ID: WC-8 Date Received: 06/21/23
Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/03/23 17:16
Analyst: JIC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	420	190	1
1,1-Dichloroethane	100		ug/kg	84	12.	1
Chloroform	270		ug/kg	130	12.	1
Carbon tetrachloride	ND		ug/kg	84	19.	1
1,2-Dichloropropane	ND		ug/kg	84	10.	1
Dibromochloromethane	ND		ug/kg	84	12.	1
1,1,2-Trichloroethane	ND		ug/kg	84	22.	1
Tetrachloroethene	41000	E	ug/kg	42	16.	1
Chlorobenzene	ND		ug/kg	42	11.	1
Trichlorofluoromethane	ND		ug/kg	340	59.	1
1,2-Dichloroethane	ND		ug/kg	84	22.	1
1,1,1-Trichloroethane	ND		ug/kg	42	14.	1
Bromodichloromethane	ND		ug/kg	42	9.2	1
trans-1,3-Dichloropropene	ND		ug/kg	84	23.	1
cis-1,3-Dichloropropene	ND		ug/kg	42	13.	1
1,3-Dichloropropene, Total	ND		ug/kg	42	13.	1
1,1-Dichloropropene	ND		ug/kg	42	13.	1
Bromoform	ND		ug/kg	340	21.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	42	14.	1
Benzene	69		ug/kg	42	14.	1
Toluene	130		ug/kg	84	46.	1
Ethylbenzene	93		ug/kg	84	12.	1
Chloromethane	ND		ug/kg	340	79.	1
Bromomethane	ND		ug/kg	170	49.	1
Vinyl chloride	96		ug/kg	84	28.	1
Chloroethane	ND		ug/kg	170	38.	1
1,1-Dichloroethene	33	J	ug/kg	84	20.	1
trans-1,2-Dichloroethene	800		ug/kg	130	12.	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 Date Collected: 06/20/23 13:15

Client ID: WC-8 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	11000		ug/kg	42	12.	1
1,2-Dichlorobenzene	31	J	ug/kg	170	12.	1
1,3-Dichlorobenzene	ND		ug/kg	170	12.	1
1,4-Dichlorobenzene	15	J	ug/kg	170	14.	1
Methyl tert butyl ether	ND		ug/kg	170	17.	1
p/m-Xylene	180		ug/kg	170	47.	1
o-Xylene	74	J	ug/kg	84	24.	1
Xylenes, Total	250	J	ug/kg	84	24.	1
cis-1,2-Dichloroethene	5600		ug/kg	84	15.	1
1,2-Dichloroethene, Total	6400		ug/kg	84	12.	1
Dibromomethane	ND		ug/kg	170	20.	1
Styrene	ND		ug/kg	84	16.	1
Dichlorodifluoromethane	ND		ug/kg	840	77.	1
Acetone	830	J	ug/kg	840	410	1
Carbon disulfide	ND		ug/kg	840	380	1
2-Butanone	ND		ug/kg	840	190	1
Vinyl acetate	ND		ug/kg	840	180	1
4-Methyl-2-pentanone	ND		ug/kg	840	110	1
1,2,3-Trichloropropane	ND		ug/kg	170	11.	1
2-Hexanone	ND		ug/kg	840	100	1
Bromochloromethane	ND		ug/kg	170	17.	1
2,2-Dichloropropane	ND		ug/kg	170	17.	1
1,2-Dibromoethane	ND		ug/kg	84	24.	1
1,3-Dichloropropane	ND		ug/kg	170	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	42	11.	1
Bromobenzene	ND		ug/kg	170	12.	1
n-Butylbenzene	25	J	ug/kg	84	14.	1
sec-Butylbenzene	18	J	ug/kg	84	12.	1
tert-Butylbenzene	ND		ug/kg	170	10.	1
o-Chlorotoluene	ND		ug/kg	170	16.	1
p-Chlorotoluene	ND		ug/kg	170	9.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	84.	1
Hexachlorobutadiene	ND		ug/kg	340	14.	1
Isopropylbenzene	20	J	ug/kg	84	9.2	1
p-Isopropyltoluene	110		ug/kg	84	9.2	1
Naphthalene	340		ug/kg	340	55.	1
Acrylonitrile	ND		ug/kg	340	97.	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 Date Collected: 06/20/23 13:15

Client ID: WC-8 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	41	J	ug/kg	84	14.	1
1,2,3-Trichlorobenzene	ND		ug/kg	170	27.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	23.	1
1,3,5-Trimethylbenzene	44	J	ug/kg	170	16.	1
1,2,4-Trimethylbenzene	95	J	ug/kg	170	28.	1
1,4-Dioxane	ND		ug/kg	6800	3000	1
p-Diethylbenzene	ND		ug/kg	170	15.	1
p-Ethyltoluene	120	J	ug/kg	170	32.	1
1,2,4,5-Tetramethylbenzene	20	J	ug/kg	170	16.	1
Ethyl ether	ND		ug/kg	170	29.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	420	120	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	96		70-130

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 D
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/01/23 18:24
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	46000		ug/kg	1000	410	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04 Date Collected: 06/20/23 13:30
Client ID: WC-7/10 Date Received: 06/21/23
Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/01/23 19:06
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	340	160	1
1,1-Dichloroethane	ND		ug/kg	68	9.9	1
Chloroform	34	J	ug/kg	100	9.5	1
Carbon tetrachloride	ND		ug/kg	68	16.	1
1,2-Dichloropropane	ND		ug/kg	68	8.5	1
Dibromochloromethane	ND		ug/kg	68	9.5	1
1,1,2-Trichloroethane	ND		ug/kg	68	18.	1
Tetrachloroethene	3500		ug/kg	34	13.	1
Chlorobenzene	ND		ug/kg	34	8.6	1
Trichlorofluoromethane	ND		ug/kg	270	47.	1
1,2-Dichloroethane	ND		ug/kg	68	18.	1
1,1,1-Trichloroethane	ND		ug/kg	34	11.	1
Bromodichloromethane	ND		ug/kg	34	7.4	1
trans-1,3-Dichloropropene	ND		ug/kg	68	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	34	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	34	11.	1
1,1-Dichloropropene	ND		ug/kg	34	11.	1
Bromoform	ND		ug/kg	270	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	11.	1
Benzene	ND		ug/kg	34	11.	1
Toluene	45	J	ug/kg	68	37.	1
Ethylbenzene	13	J	ug/kg	68	9.6	1
Chloromethane	ND		ug/kg	270	63.	1
Bromomethane	ND		ug/kg	140	40.	1
Vinyl chloride	ND		ug/kg	68	23.	1
Chloroethane	ND		ug/kg	140	31.	1
1,1-Dichloroethene	ND		ug/kg	68	16.	1
trans-1,2-Dichloroethene	52	J	ug/kg	100	9.3	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04 Date Collected: 06/20/23 13:30

Client ID: WC-7/10 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	480		ug/kg	34	9.3	1
1,2-Dichlorobenzene	230		ug/kg	140	9.8	1
1,3-Dichlorobenzene	ND		ug/kg	140	10.	1
1,4-Dichlorobenzene	44	J	ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	41	J	ug/kg	140	38.	1
o-Xylene	ND		ug/kg	68	20.	1
Xylenes, Total	41	J	ug/kg	68	20.	1
cis-1,2-Dichloroethene	540		ug/kg	68	12.	1
1,2-Dichloroethene, Total	590	J	ug/kg	68	9.3	1
Dibromomethane	ND		ug/kg	140	16.	1
Styrene	16	J	ug/kg	68	13.	1
Dichlorodifluoromethane	ND		ug/kg	680	62.	1
Acetone	ND		ug/kg	680	330	1
Carbon disulfide	ND		ug/kg	680	310	1
2-Butanone	ND		ug/kg	680	150	1
Vinyl acetate	ND		ug/kg	680	150	1
4-Methyl-2-pentanone	ND		ug/kg	680	87.	1
1,2,3-Trichloropropane	ND		ug/kg	140	8.6	1
2-Hexanone	ND		ug/kg	680	80.	1
Bromochloromethane	ND		ug/kg	140	14.	1
2,2-Dichloropropane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	68	19.	1
1,3-Dichloropropane	ND		ug/kg	140	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	9.0	1
Bromobenzene	ND		ug/kg	140	9.9	1
n-Butylbenzene	15	J	ug/kg	68	11.	1
sec-Butylbenzene	16	J	ug/kg	68	9.9	1
tert-Butylbenzene	ND		ug/kg	140	8.0	1
o-Chlorotoluene	14	J	ug/kg	140	13.	1
p-Chlorotoluene	ND		ug/kg	140	7.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	68.	1
Hexachlorobutadiene	ND		ug/kg	270	12.	1
Isopropylbenzene	ND		ug/kg	68	7.4	1
p-Isopropyltoluene	26	J	ug/kg	68	7.4	1
Naphthalene	130	J	ug/kg	270	44.	1
Acrylonitrile	ND		ug/kg	270	78.	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04 Date Collected: 06/20/23 13:30

Client ID: WC-7/10 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	18	J	ug/kg	68	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	18.	1
1,3,5-Trimethylbenzene	31	J	ug/kg	140	13.	1
1,2,4-Trimethylbenzene	83	J	ug/kg	140	23.	1
1,4-Dioxane	ND		ug/kg	5400	2400	1
p-Diethylbenzene	87	J	ug/kg	140	12.	1
p-Ethyltoluene	45	J	ug/kg	140	26.	1
1,2,4,5-Tetramethylbenzene	20	J	ug/kg	140	13.	1
Ethyl ether	ND		ug/kg	140	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	340	97.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 13:47
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1799167-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 13:47
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1799167-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 13:47
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1799167-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 10:44
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,04 Batch: WG1800206-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 10:44
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,04 Batch: WG1800206-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	19	J	ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 10:44
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,04 Batch: WG1800206-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
Methylene chloride	87		89		70-130	2		30
1,1-Dichloroethane	93		94		70-130	1		30
Chloroform	92		96		70-130	4		30
Carbon tetrachloride	87		86		70-130	1		30
1,2-Dichloropropane	87		89		70-130	2		30
Dibromochloromethane	82		84		70-130	2		30
1,1,2-Trichloroethane	88		91		70-130	3		30
Tetrachloroethene	77		79		70-130	3		30
Chlorobenzene	83		85		70-130	2		30
Trichlorofluoromethane	83		86		70-139	4		30
1,2-Dichloroethane	97		96		70-130	1		30
1,1,1-Trichloroethane	95		98		70-130	3		30
Bromodichloromethane	92		93		70-130	1		30
trans-1,3-Dichloropropene	84		88		70-130	5		30
cis-1,3-Dichloropropene	88		88		70-130	0		30
1,1-Dichloropropene	94		96		70-130	2		30
Bromoform	83		86		70-130	4		30
1,1,2,2-Tetrachloroethane	86		89		70-130	3		30
Benzene	92		93		70-130	1		30
Toluene	84		86		70-130	2		30
Ethylbenzene	88		90		70-130	2		30
Chloromethane	70		70		52-130	0		30
Bromomethane	102		102		57-147	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
Vinyl chloride	78		77		67-130	1		30
Chloroethane	78		77		50-151	1		30
1,1-Dichloroethene	78		82		65-135	5		30
trans-1,2-Dichloroethene	89		86		70-130	3		30
Trichloroethene	94		94		70-130	0		30
1,2-Dichlorobenzene	80		83		70-130	4		30
1,3-Dichlorobenzene	81		83		70-130	2		30
1,4-Dichlorobenzene	80		82		70-130	2		30
Methyl tert butyl ether	108		108		66-130	0		30
p/m-Xylene	85		87		70-130	2		30
o-Xylene	86		88		70-130	2		30
cis-1,2-Dichloroethene	87		87		70-130	0		30
Dibromomethane	87		89		70-130	2		30
Styrene	88		90		70-130	2		30
Dichlorodifluoromethane	83		82		30-146	1		30
Acetone	114		118		54-140	3		30
Carbon disulfide	76		77		59-130	1		30
2-Butanone	74		75		70-130	1		30
Vinyl acetate	76		74		70-130	3		30
4-Methyl-2-pentanone	86		89		70-130	3		30
1,2,3-Trichloropropane	92		96		68-130	4		30
2-Hexanone	74		76		70-130	3		30
Bromochloromethane	84		83		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
2,2-Dichloropropane	88		88		70-130	0		30
1,2-Dibromoethane	85		90		70-130	6		30
1,3-Dichloropropane	88		91		69-130	3		30
1,1,1,2-Tetrachloroethane	84		86		70-130	2		30
Bromobenzene	81		84		70-130	4		30
n-Butylbenzene	88		90		70-130	2		30
sec-Butylbenzene	87		89		70-130	2		30
tert-Butylbenzene	82		84		70-130	2		30
o-Chlorotoluene	102		105		70-130	3		30
p-Chlorotoluene	87		89		70-130	2		30
1,2-Dibromo-3-chloropropane	77		81		68-130	5		30
Hexachlorobutadiene	86		90		67-130	5		30
Isopropylbenzene	86		88		70-130	2		30
p-Isopropyltoluene	82		86		70-130	5		30
Naphthalene	77		81		70-130	5		30
Acrylonitrile	102		102		70-130	0		30
n-Propylbenzene	87		88		70-130	1		30
1,2,3-Trichlorobenzene	86		90		70-130	5		30
1,2,4-Trichlorobenzene	85		88		70-130	3		30
1,3,5-Trimethylbenzene	87		89		70-130	2		30
1,2,4-Trimethylbenzene	85		87		70-130	2		30
1,4-Dioxane	87		94		65-136	8		30
p-Diethylbenzene	81		82		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
p-Ethyltoluene	84		87		70-130	4		30
1,2,4,5-Tetramethylbenzene	81		84		70-130	4		30
Ethyl ether	87		91		67-130	4		30
trans-1,4-Dichloro-2-butene	88		97		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		110		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	106		105		70-130
Dibromofluoromethane	101		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
Methylene chloride	76		74		70-130	3		30
1,1-Dichloroethane	82		77		70-130	6		30
Chloroform	83		79		70-130	5		30
Carbon tetrachloride	79		73		70-130	8		30
1,2-Dichloropropane	84		83		70-130	1		30
Dibromochloromethane	91		92		70-130	1		30
1,1,2-Trichloroethane	84		86		70-130	2		30
Tetrachloroethene	87		80		70-130	8		30
Chlorobenzene	88		83		70-130	6		30
Trichlorofluoromethane	77		70		70-139	10		30
1,2-Dichloroethane	86		87		70-130	1		30
1,1,1-Trichloroethane	83		77		70-130	8		30
Bromodichloromethane	88		87		70-130	1		30
trans-1,3-Dichloropropene	92		92		70-130	0		30
cis-1,3-Dichloropropene	93		92		70-130	1		30
1,1-Dichloropropene	83		75		70-130	10		30
Bromoform	87		87		70-130	0		30
1,1,2,2-Tetrachloroethane	84		86		70-130	2		30
Benzene	84		80		70-130	5		30
Toluene	83		78		70-130	6		30
Ethylbenzene	86		79		70-130	8		30
Chloromethane	79		74		52-130	7		30
Bromomethane	93		84		57-147	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
Vinyl chloride	76		69		67-130	10		30
Chloroethane	80		75		50-151	6		30
1,1-Dichloroethene	81		72		65-135	12		30
trans-1,2-Dichloroethene	85		79		70-130	7		30
Trichloroethene	81		77		70-130	5		30
1,2-Dichlorobenzene	84		82		70-130	2		30
1,3-Dichlorobenzene	87		83		70-130	5		30
1,4-Dichlorobenzene	88		84		70-130	5		30
Methyl tert butyl ether	98		100		66-130	2		30
p/m-Xylene	90		85		70-130	6		30
o-Xylene	89		84		70-130	6		30
cis-1,2-Dichloroethene	84		80		70-130	5		30
Dibromomethane	86		88		70-130	2		30
Styrene	94		90		70-130	4		30
Dichlorodifluoromethane	71		63		30-146	12		30
Acetone	81		80		54-140	1		30
Carbon disulfide	80		74		59-130	8		30
2-Butanone	83		83		70-130	0		30
Vinyl acetate	86		87		70-130	1		30
4-Methyl-2-pentanone	87		87		70-130	0		30
1,2,3-Trichloropropane	83		83		68-130	0		30
2-Hexanone	81		82		70-130	1		30
Bromochloromethane	90		89		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
2,2-Dichloropropane	86		78		70-130	10		30
1,2-Dibromoethane	90		92		70-130	2		30
1,3-Dichloropropane	86		85		69-130	1		30
1,1,1,2-Tetrachloroethane	88		85		70-130	3		30
Bromobenzene	83		80		70-130	4		30
n-Butylbenzene	89		82		70-130	8		30
sec-Butylbenzene	80		73		70-130	9		30
tert-Butylbenzene	78		73		70-130	7		30
o-Chlorotoluene	95		78		70-130	20		30
p-Chlorotoluene	86		82		70-130	5		30
1,2-Dibromo-3-chloropropane	84		85		68-130	1		30
Hexachlorobutadiene	83		75		67-130	10		30
Isopropylbenzene	82		76		70-130	8		30
p-Isopropyltoluene	85		78		70-130	9		30
Naphthalene	82		83		70-130	1		30
Acrylonitrile	82		81		70-130	1		30
n-Propylbenzene	84		77		70-130	9		30
1,2,3-Trichlorobenzene	85		83		70-130	2		30
1,2,4-Trichlorobenzene	95		92		70-130	3		30
1,3,5-Trimethylbenzene	86		80		70-130	7		30
1,2,4-Trimethylbenzene	85		81		70-130	5		30
1,4-Dioxane	88		88		65-136	0		30
p-Diethylbenzene	87		80		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
p-Ethyltoluene	85		80		70-130	6		30
1,2,4,5-Tetramethylbenzene	84		80		70-130	5		30
Ethyl ether	91		93		67-130	2		30
trans-1,4-Dichloro-2-butene	88		88		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		106		70-130
Toluene-d8	99		97		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	99		101		70-130

SEMIVOLATILES

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/03/23 03:15
Analyst: JG
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 10:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	170	22.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
Fluoranthene	1000		ug/kg	120	24.	1
Naphthalene	980		ug/kg	210	25.	1
Benzo(a)anthracene	560		ug/kg	120	24.	1
Benzo(a)pyrene	560		ug/kg	170	51.	1
Benzo(b)fluoranthene	990		ug/kg	120	35.	1
Benzo(k)fluoranthene	280		ug/kg	120	33.	1
Chrysene	710		ug/kg	120	22.	1
Acenaphthylene	360		ug/kg	170	32.	1
Anthracene	440		ug/kg	120	41.	1
Benzo(ghi)perylene	590		ug/kg	170	24.	1
Fluorene	130	J	ug/kg	210	20.	1
Phenanthrene	900		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	160		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	660		ug/kg	170	29.	1
Pyrene	800		ug/kg	120	21.	1
2-Methylnaphthalene	310		ug/kg	250	25.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	60		30-120
4-Terphenyl-d14	49		18-120

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/03/23 03:39
Analyst: EJL
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 10:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	55	J	ug/kg	150	20.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
Fluoranthene	560		ug/kg	120	22.	1
Naphthalene	82	J	ug/kg	190	24.	1
Benzo(a)anthracene	290		ug/kg	120	22.	1
Benzo(a)pyrene	270		ug/kg	150	47.	1
Benzo(b)fluoranthene	330		ug/kg	120	33.	1
Benzo(k)fluoranthene	96	J	ug/kg	120	31.	1
Chrysene	330		ug/kg	120	20.	1
Acenaphthylene	30	J	ug/kg	150	30.	1
Anthracene	120		ug/kg	120	38.	1
Benzo(ghi)perylene	180		ug/kg	150	23.	1
Fluorene	68	J	ug/kg	190	19.	1
Phenanthrene	460		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	45	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	180		ug/kg	150	27.	1
Pyrene	510		ug/kg	120	19.	1
2-Methylnaphthalene	78	J	ug/kg	230	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	62		30-120
4-Terphenyl-d14	44		18-120

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 06/30/23 11:58
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 06/27/23 10:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1796586-1					
Acenaphthene	ND		ug/kg	130	17.
2-Chloronaphthalene	ND		ug/kg	170	16.
Fluoranthene	ND		ug/kg	100	19.
Naphthalene	ND		ug/kg	170	20.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	41.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
2-Methylnaphthalene	ND		ug/kg	200	20.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	68		30-120
4-Terphenyl-d14	75		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1796586-2 WG1796586-3								
Acenaphthene	75		68		31-137	10		50
2-Chloronaphthalene	75		68		40-140	10		50
Fluoranthene	76		69		40-140	10		50
Naphthalene	76		70		40-140	8		50
Benzo(a)anthracene	80		72		40-140	11		50
Benzo(a)pyrene	87		80		40-140	8		50
Benzo(b)fluoranthene	79		72		40-140	9		50
Benzo(k)fluoranthene	81		73		40-140	10		50
Chrysene	79		73		40-140	8		50
Acenaphthylene	81		73		40-140	10		50
Anthracene	78		71		40-140	9		50
Benzo(ghi)perylene	81		73		40-140	10		50
Fluorene	75		68		40-140	10		50
Phenanthrene	76		70		40-140	8		50
Dibenzo(a,h)anthracene	81		73		40-140	10		50
Indeno(1,2,3-cd)pyrene	85		77		40-140	10		50
Pyrene	76		69		35-142	10		50
2-Methylnaphthalene	77		72		40-140	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1796586-2 WG1796586-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	91		84		23-120
2-Fluorobiphenyl	72		65		30-120
4-Terphenyl-d14	75		67		18-120

PETROLEUM HYDROCARBONS

Project Name: AVANT GARDNER-WC
Lab Number: L2335538
Project Number: ES22-387153
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 06/28/23 08:59
Analyst: SC
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	380000		ug/kg	41000	2300	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		40-140

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 07/02/23 14:24
Analyst: KJD
Percent Solids: 79%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	4100		ug/kg	3000	57.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		70-130
4-Bromofluorobenzene	84		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 06/28/23 09:50
Analyst: SC
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	93000		ug/kg	39000	2100	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	62		40-140

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 07/02/23 15:52
Analyst: KJD
Percent Solids: 86%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	15000		ug/kg	2600	50.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	98		70-130
4-Bromofluorobenzene	89		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 06/28/23 08:34
Analyst: SC

Extraction Method: EPA 3546
Extraction Date: 06/27/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL
Diesel Range Organics - Westborough Lab for sample(s): 01,03 Batch: WG1796899-1					
DRO (C10-C28)	2800	J	ug/kg	33000	1800

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	55		40-140

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 07/02/23 13:55
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 01,03 Batch: WG1799130-4					
Gasoline Range Organics	700	J	ug/kg	2500	48.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	101		70-130
4-Bromofluorobenzene	87		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab	Associated sample(s): 01,03		Batch: WG1796899-2					
DRO (C10-C28)	87		-		60-140	-		

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	70				40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab	Associated sample(s): 01,03		Batch: WG1799130-2 WG1799130-3					
Gasoline Range Organics	89		93		80-120	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	105		107		70-130
4-Bromofluorobenzene	91		93		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1799130-6 QC Sample: L2335538-01 Client ID: WC-8												
Gasoline Range Organics	4100	23600	25000	87		-	-		80-120	-		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	106				70-130
4-Bromofluorobenzene	93				70-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1796899-3 QC Sample: L2335538-01 Client ID: WC-8						
DRO (C10-C28)	380000	310000	ug/kg	20		20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		53		40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1799130-5 QC Sample: L2335538-01 Client ID: WC-8						
Gasoline Range Organics	4100	4100	ug/kg	0		20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		103		70-130
4-Bromofluorobenzene	84		91		70-130

PCBS

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/28/23 09:02
Analyst: ER
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 19:18
Cleanup Method: EPA 3665A
Cleanup Date: 06/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 06/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	58.0	5.15	1	A
Aroclor 1221	ND		ug/kg	58.0	5.81	1	A
Aroclor 1232	ND		ug/kg	58.0	12.3	1	A
Aroclor 1242	ND		ug/kg	58.0	7.82	1	A
Aroclor 1248	ND		ug/kg	58.0	8.70	1	A
Aroclor 1254	ND		ug/kg	58.0	6.34	1	A
Aroclor 1260	ND		ug/kg	58.0	10.7	1	A
Aroclor 1262	ND		ug/kg	58.0	7.36	1	A
Aroclor 1268	ND		ug/kg	58.0	6.01	1	A
PCBs, Total	ND		ug/kg	58.0	5.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/28/23 09:11
Analyst: ER
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 19:18
Cleanup Method: EPA 3665A
Cleanup Date: 06/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 06/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.2	4.90	1	A
Aroclor 1221	ND		ug/kg	55.2	5.53	1	A
Aroclor 1232	ND		ug/kg	55.2	11.7	1	A
Aroclor 1242	ND		ug/kg	55.2	7.44	1	A
Aroclor 1248	ND		ug/kg	55.2	8.28	1	A
Aroclor 1254	ND		ug/kg	55.2	6.04	1	A
Aroclor 1260	23.7	J	ug/kg	55.2	10.2	1	B
Aroclor 1262	ND		ug/kg	55.2	7.01	1	A
Aroclor 1268	ND		ug/kg	55.2	5.72	1	A
PCBs, Total	23.7	J	ug/kg	55.2	4.90	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/28/23 08:37
Analyst: ER

Extraction Method: EPA 3546
Extraction Date: 06/27/23 19:18
Cleanup Method: EPA 3665A
Cleanup Date: 06/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 06/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03 Batch: WG1796876-1						
Aroclor 1016	ND		ug/kg	47.6	4.23	A
Aroclor 1221	ND		ug/kg	47.6	4.77	A
Aroclor 1232	ND		ug/kg	47.6	10.1	A
Aroclor 1242	ND		ug/kg	47.6	6.42	A
Aroclor 1248	ND		ug/kg	47.6	7.14	A
Aroclor 1254	ND		ug/kg	47.6	5.21	A
Aroclor 1260	ND		ug/kg	47.6	8.80	A
Aroclor 1262	ND		ug/kg	47.6	6.05	A
Aroclor 1268	ND		ug/kg	47.6	4.93	A
PCBs, Total	ND		ug/kg	47.6	4.23	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	87		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG1796876-2 WG1796876-3									
Aroclor 1016	58		62		40-140	7		50	A
Aroclor 1260	54		58		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		74		30-150	A
Decachlorobiphenyl	65		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		77		30-150	B
Decachlorobiphenyl	79		85		30-150	B

METALS

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01 Date Collected: 06/20/23 13:15

Client ID: WC-8 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 06/23/23 03:26

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Barium, TCLP	0.460	J	mg/l	0.500	0.0210	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Lead, TCLP	0.122	J	mg/l	0.500	0.0270	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/23 12:33	07/05/23 12:22	EPA 7470A	1,7470A	GMG
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC

Project Name: AVANT GARDNER-WC
Lab Number: L2335538
Project Number: ES22-387153
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY
Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%
TCLP/SPLP Ext. Date: 06/23/23 03:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Barium, TCLP	0.224	J	mg/l	0.500	0.0210	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Lead, TCLP	0.0426	J	mg/l	0.500	0.0270	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/23 12:33	07/05/23 12:25	EPA 7470A	1,7470A	GMG
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01,03 Batch: WG1795975-1										
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Barium, TCLP	ND		mg/l	0.500	0.0210	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Lead, TCLP	ND		mg/l	0.500	0.0270	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 06/23/23 03:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01,03 Batch: WG1795976-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/23 12:33	06/27/23 08:24	1,7470A	GMG

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 06/23/23 03:26

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 Batch: WG1795975-2								
Arsenic, TCLP	102		-		75-125	-		20
Barium, TCLP	101		-		75-125	-		20
Cadmium, TCLP	104		-		75-125	-		20
Chromium, TCLP	104		-		75-125	-		20
Lead, TCLP	98		-		75-125	-		20
Selenium, TCLP	101		-		75-125	-		20
Silver, TCLP	102		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 Batch: WG1795976-2								
Mercury, TCLP	100		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795975-3 QC Sample: L2334865-01 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.23	102		-	-		75-125	-		20
Barium, TCLP	0.478J	20	20.6	103		-	-		75-125	-		20
Cadmium, TCLP	ND	0.53	0.543	102		-	-		75-125	-		20
Chromium, TCLP	ND	2	2.05	102		-	-		75-125	-		20
Lead, TCLP	0.258J	5.3	5.43	102		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.21	101		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.499	100		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795976-3 QC Sample: L2334941-01 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0246	98		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795975-4 QC Sample: L2334865-01 Client ID: DUP Sample						
Lead, TCLP	0.258J	0.258J	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795976-4 QC Sample: L2334941-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

SAMPLE RESULTS

Lab ID:	L2335538-01	Date Collected:	06/20/23 13:15
Client ID:	WC-8	Date Received:	06/21/23
Sample Location:	140 STEWART AVE, BROOKLYN NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/03/23 19:00	1,1030	GEF

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

SAMPLE RESULTS

Lab ID:	L2335538-03	Date Collected:	06/20/23 13:30
Client ID:	WC-7/10	Date Received:	06/21/23
Sample Location:	140 STEWART AVE, BROOKLYN NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/03/23 19:00	1,1030	GEF

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.9		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI
pH (H)	7.30		SU	-	NA	1	-	07/11/23 06:00	1,9045D	OCF
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:21	125,7.3	QJM
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:51	125,7.3	QJM
Paint Filter Liquid	Negative		-	0	NA	1	-	06/22/23 17:26	1,9095B	AAS

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI
pH (H)	8.00		SU	-	NA	1	-	07/11/23 06:00	1,9045D	OCF
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:21	125,7.3	QJM
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:52	125,7.3	QJM
Paint Filter Liquid	Negative		-	0	NA	1	-	06/22/23 17:26	1,9095B	AAS

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.7		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,03 Batch: WG1798695-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:44	125,7.3	QJM
General Chemistry - Westborough Lab for sample(s): 01,03 Batch: WG1798697-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:12	125,7.3	QJM

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03 Batch: WG1798695-2								
Sulfide, Reactive	71		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 Batch: WG1798697-2								
Cyanide, Reactive	78		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 Batch: WG1801607-1								
pH	100		-		99-101	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1794681-1 QC Sample: L2335541-21 Client ID: DUP Sample						
Solids, Total	50.4	57.1	%	12		20
General Chemistry - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1798695-3 QC Sample: L2334851-07 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1798697-3 QC Sample: L2334851-07 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1801607-2 QC Sample: L2337685-01 Client ID: DUP Sample						
pH	7.24	7.30	SU	1		5

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335538-01A	Vial Large Septa unpreserved (4oz)	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-01B	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		SUB-METALS 6010(180)
L2335538-01C	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),NYTCL-PAH(14),REACTS(14),TS(7),TPH-DRO(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2335538-01D	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),NYTCL-PAH(14),REACTS(14),TS(7),TPH-DRO(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2335538-01E	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),NYTCL-PAH(14),REACTS(14),TS(7),TPH-DRO(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2335538-01W	Plastic 120ml HNO3 preserved Extracts	A	NA		2.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2335538-01X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-01X9	Tumble Vessel	A	NA		2.9	Y	Absent		-
L2335538-02A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2335538-02X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02Y	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)
L2335538-02Z	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)
L2335538-03A	Vial Large Septa unpreserved (4oz)	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-03B	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		SUB-METALS 6010(180)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335538-03C	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-PAH(14),TPH-DRO(14),TS(7),PH-9045(1),PAINTF(),REACTCN(14),NYTCL-8082(365)
L2335538-03D	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-PAH(14),TPH-DRO(14),TS(7),PH-9045(1),PAINTF(),REACTCN(14),NYTCL-8082(365)
L2335538-03E	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-PAH(14),TPH-DRO(14),TS(7),PH-9045(1),PAINTF(),REACTCN(14),NYTCL-8082(365)
L2335538-03W	Plastic 120ml HNO3 preserved Extracts	A	NA		2.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2335538-03X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-03X9	Tumble Vessel	A	NA		2.9	Y	Absent		-
L2335538-04A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2335538-04X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04Y	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)
L2335538-04Z	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335536

Client Information
Client: PARTNER
Address: 611 Industrial Way West
Eatontown, NJ 07724
Phone: 732 389 1700
Fax: 732-389-1701
Email: DLent@partnereic.com

Project Information
Project Name: Avon Gardens - WC
Project Location: 140 Stewart Ave, Bradley Beach, NJ
Project #: E522-387153
(Use Project name as Project #) ☒
Project Manager: David Lent
ALPHAQuote #: —

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO # E522-387153

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☒ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TPH (8015B)	VOCs	PAHs	Total RCRA Metals	TCLP RCRA Metals	PCBs	Ignitability, Corrosivity, Reactivity	Paint Filter	Sample Specific Comments	Total Bottle
35538-01	WC-8	6-20-23	1315	SOIL	ABC	X		X	X	X	X	X	X		
02	WC-8	↓	1315	SOIL	BC		X								
03	WC-7/10		1330	SOIL	BC	X		X	X	X	X	X	X		
04	WC-7/10	↓	1330	SOIL	BC		X								

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	E	A	A	A	A	A	A	
Preservative	A	A	A	A	A	A	A	A	

Relinquished By:	Date/Time	Received By:	Date/Time
	6/22/23 1700		6/22/23 16:30
	6/22/23 1730		6/22 2100
	6/22/23 0130		6/22 0130
	6/22 0330		6/23 03:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

APL
AQUA PRO-TECH LABORATORIES
A Pace® Analytical Laboratory
1275 Bloomfield Avenue, Fairfield, NJ 07004 (973) 227-0422

ANALYTICAL RESULTS

STANDARD DELIVERABLES FORMAT

APL WORK ORDER NUMBER: 23F1150

Alpha Analytical Laboratories

Project: L2335538

Sudip Pradhan
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

Report Date: Jul 12, 2023

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

L2335538

Client: Alpha Analytical Laboratories **Contact:** Sub Reporting

APL Order ID: 23F1150 **Received:** 06/23/23 08:45

Sample ID/Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
23F1150-01 (Soil)	WC-8			Collected: 06/20/23 13:15				
General Chemistry								
Percent Solids	Gravimetric	06/23/23 18:41	06/26/23 10:30	**80.3**				**%**
23F1150-01 (Soil)	WC-8			Collected: 06/20/23 13:15				
Total Metals								
Arsenic	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**13.8**			**1.53**	**mg/kg dry**
Barium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**119**			**0.610**	**mg/kg dry**
Cadmium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**0.949**			**0.305**	**mg/kg dry**
Chromium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**24.2**			**0.305**	**mg/kg dry**
Lead	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**250**			**1.53**	**mg/kg dry**
Selenium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	ND	U		1.53	mg/kg dry
Silver	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**0.216**			**0.183**	**mg/kg dry**
Mercury	SW 846 7473	06/26/23 12:39	06/26/23 12:39	**6.25**			**0.0249**	**mg/kg dry**
23F1150-02 (Soil)	WC-7/10			Collected: 06/20/23 13:30				
General Chemistry								
Percent Solids	Gravimetric	06/23/23 18:41	06/26/23 10:30	**84.1**				**%**
23F1150-02 (Soil)	WC-7/10			Collected: 06/20/23 13:30				
Total Metals								
Arsenic	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**4.25**			**1.42**	**mg/kg dry**
Barium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**44.4**			**0.567**	**mg/kg dry**
Cadmium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**0.343**			**0.283**	**mg/kg dry**
Chromium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**34.0**			**0.283**	**mg/kg dry**
Lead	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**58.9**			**1.42**	**mg/kg dry**
Selenium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	ND	U		1.42	mg/kg dry
Silver	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**0.197**			**0.170**	**mg/kg dry**
Mercury	SW 846 7473	06/26/23 12:39	06/26/23 12:39	**0.888**			**0.0238**	**mg/kg dry**

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation
D1 - Sample was Decanted (Dissolved)

Subcontract Chain of Custody

Aqua Pro-Tech Laboratories (APL)
1275 Bloomfield Ave.
Bldg. 6
Fairfield, NJ 07004

Alpha Job Number
L2335538

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 508.439.5155
Email: mvitanza@alphalab.com

Project Information

Project Location: NY
Project Manager: Marty Vitanza

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:

Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2335538

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com TRCRA8, CATB

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
23F1150-01	WC-8	06-20-23 13:15	SOIL	Metals 6010	
-02	WC-7/10	06-20-23 13:30	SOIL	Metals 6010	

APL 23F1150
AQUA PRO-TECH LABORATORIES
www.aquaprotechlabs.com

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/22/23		6/22/23 17:30
		6/22/23 22:20		6/23/23 22:35
		6/23/23 8:45		6-23-23 7:30

Form No: AL_subcoc

ANALYTICAL REPORT

Lab Number:	L2126281
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER
Project Number:	17244793
Report Date:	06/11/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2126281-01	2-B2 (9.5-10)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 08:15	05/19/21
L2126281-02	1-B2 (7.5-8.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 08:30	05/19/21
L2126281-03	4-B2 (6.5-7)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 09:00	05/19/21
L2126281-04	5-B1 (8.5-9)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 09:45	05/19/21
L2126281-05	10-B5 (6.5-7)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 10:00	05/19/21
L2126281-06	6-B1 (5.5-6)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 10:30	05/19/21
L2126281-07	7-B4 (6-6.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 11:00	05/19/21
L2126281-08	10-B3 (7-8)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 12:45	05/19/21
L2126281-09	8-B1 (7.5-8)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 13:15	05/19/21
L2126281-10	8-B1 (14-15)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 13:30	05/19/21
L2126281-11	10-B4 (5-5.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 14:00	05/19/21
L2126281-12	10-B4 (18-18.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/18/21 15:00	05/19/21

Project Name:	AVANT GARDNER	**Lab Number:**	L2126281
Project Number:	17244793	**Report Date:**	06/11/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Case Narrative (continued)

Report Revision

June 11, 2021: The project number has been amended.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2126281-05: The sample was analyzed as a High Level Methanol in order to quantitate results within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the Volatile Organics by EPA Method 5035/8260 High and Low Level analyses which have been attributed to sample non-homogeneity.

L2126281-07: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L2126281-07: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (135%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

Semivolatile Organics

L2126281-10D: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix, and due to the analytical dilution required by the sample matrix.

L2126281 -11: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Total Metals

The WG1504136-3 MS recoveries, performed on L2126281-10, are outside the acceptance criteria for barium

Project Name: AVANT GARDNER **Lab Number:** L2126281
Project Number: 17244793 **Report Date:** 06/11/21

Case Narrative (continued)

(47%) and thallium (42%). A post digestion spike was performed and was within acceptance criteria.
The WG1504136-3 MS recoveries for aluminum (69%), arsenic (0%), calcium (0%),copper (0%), iron (1380%), lead (0%), manganese (177%) and zinc (0%), performed on L2126281-10, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG1504136-3 MS recoveries, performed on L2126281-10, are outside the acceptance criteria for chromium (8%) and magnesium (42%). A post digestion spike was performed and yielded unacceptable recoveries for chromium (70%) and magnesium (69%). The serial dilution recovery was not applicable; therefore, these elements fail the matrix test and the results reported in the native sample should be considered estimated.
The WG1504138-3 MS recovery for mercury (316%), performed on L2126281-10, does not apply because the sample concentration is greater than four times the spike amount added.
The WG1504136-4 Laboratory Duplicate RPDs for aluminum (28%), arsenic (60%), barium (44%), cadmium (38%), calcium (59%), chromium (79%), cobalt (47%), iron (28%), lead (28%), magnesium (49%), manganese (58%), nickel (75%), vanadium (54%) and zinc (42%), performed on L2126281-10, are outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.
The WG1504138-4 Laboratory Duplicate RPD for mercury (32%), performed on L2126281-10, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 06/11/21

ORGANICS

VOLATILES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-01
Client ID: 2-B2 (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/18/21 08:15
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:33
Analyst: NLK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.14	1
Chloromethane	ND		ug/kg	3.8	0.90	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-01 Date Collected: 05/18/21 08:15

Client ID: 2-B2 (9.5-10) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
Xylenes, Total	ND		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.96	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	25		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	2.8	J	ug/kg	9.6	2.1	1
Vinyl acetate	ND		ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.96	0.16	1
sec-Butylbenzene	ND		ug/kg	0.96	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-01 Date Collected: 05/18/21 08:15

Client ID: 2-B2 (9.5-10) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.96	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	77	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	95		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-02
Client ID: 1-B2 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 08:30
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:58
Analyst: NLK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.95	0.14	1
Chloroform	0.13	J	ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.95	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.95	0.12	1
Dibromochloromethane	ND		ug/kg	0.95	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.95	0.25	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.95	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.95	0.52	1
Ethylbenzene	ND		ug/kg	0.95	0.13	1
Chloromethane	ND		ug/kg	3.8	0.88	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.95	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.95	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-02 Date Collected: 05/18/21 08:30

Client ID: 1-B2 (7.5-8.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.53	1
o-Xylene	ND		ug/kg	0.95	0.28	1
Xylenes, Total	ND		ug/kg	0.95	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.95	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.95	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.95	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.5	0.87	1
Acetone	23		ug/kg	9.5	4.6	1
Carbon disulfide	ND		ug/kg	9.5	4.3	1
2-Butanone	ND		ug/kg	9.5	2.1	1
Vinyl acetate	ND		ug/kg	9.5	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.5	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.5	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.95	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.95	0.16	1
sec-Butylbenzene	ND		ug/kg	0.95	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.95	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.95	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.95	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-02 Date Collected: 05/18/21 08:30

Client ID: 1-B2 (7.5-8.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.95	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	76	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	93		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-03
Client ID: 4-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 09:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 17:23
Analyst: NLK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-03 Date Collected: 05/18/21 09:00

Client ID: 4-B2 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	60		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	9.9	J	ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-03 Date Collected: 05/18/21 09:00

Client ID: 4-B2 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	80	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	95		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-04
Client ID: 5-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 09:45
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 17:48
Analyst: NLK
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-04 Date Collected: 05/18/21 09:45

Client ID: 5-B1 (8.5-9) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	87		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	18		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.28	J	ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-04 Date Collected: 05/18/21 09:45

Client ID: 5-B1 (8.5-9) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	0.41	J	ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	95		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05
Client ID: 10-B5 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 10:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 18:13
Analyst: NLK
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	1.0		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	0.73	J	ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05 Date Collected: 05/18/21 10:00

Client ID: 10-B5 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.40	J	ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	0.49	J	ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	0.49	J	ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	2800	E	ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	500	E	ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	0.37	J	ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.30	J	ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05 Date Collected: 05/18/21 10:00

Client ID: 10-B5 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	0.71	J	ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	124		70-130
Dibromofluoromethane	96		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05
Client ID: 10-B5 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 10:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/24/21 12:21
Analyst: KJD
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	330	150	1
1,1-Dichloroethane	ND		ug/kg	65	9.4	1
Chloroform	ND		ug/kg	98	9.1	1
Carbon tetrachloride	ND		ug/kg	65	15.	1
1,2-Dichloropropane	ND		ug/kg	65	8.2	1
Dibromochloromethane	ND		ug/kg	65	9.1	1
1,1,2-Trichloroethane	ND		ug/kg	65	17.	1
Tetrachloroethene	ND		ug/kg	33	13.	1
Chlorobenzene	ND		ug/kg	33	8.3	1
Trichlorofluoromethane	ND		ug/kg	260	45.	1
1,2-Dichloroethane	ND		ug/kg	65	17.	1
1,1,1-Trichloroethane	ND		ug/kg	33	11.	1
Bromodichloromethane	ND		ug/kg	33	7.1	1
trans-1,3-Dichloropropene	ND		ug/kg	65	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	33	10.	1
1,3-Dichloropropene, Total	ND		ug/kg	33	10.	1
1,1-Dichloropropene	ND		ug/kg	33	10.	1
Bromoform	ND		ug/kg	260	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	33	11.	1
Benzene	ND		ug/kg	33	11.	1
Toluene	ND		ug/kg	65	35.	1
Ethylbenzene	ND		ug/kg	65	9.2	1
Chloromethane	ND		ug/kg	260	61.	1
Bromomethane	ND		ug/kg	130	38.	1
Vinyl chloride	ND		ug/kg	65	22.	1
Chloroethane	ND		ug/kg	130	29.	1
1,1-Dichloroethene	ND		ug/kg	65	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	98	8.9	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05 Date Collected: 05/18/21 10:00

Client ID: 10-B5 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	33	8.9	1
1,2-Dichlorobenzene	ND		ug/kg	130	9.4	1
1,3-Dichlorobenzene	ND		ug/kg	130	9.6	1
1,4-Dichlorobenzene	ND		ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	ND		ug/kg	130	36.	1
o-Xylene	ND		ug/kg	65	19.	1
Xylenes, Total	ND		ug/kg	65	19.	1
cis-1,2-Dichloroethene	ND		ug/kg	65	11.	1
1,2-Dichloroethene, Total	ND		ug/kg	65	8.9	1
Dibromomethane	ND		ug/kg	130	16.	1
Styrene	26	J	ug/kg	65	13.	1
Dichlorodifluoromethane	ND		ug/kg	650	60.	1
Acetone	ND		ug/kg	650	310	1
Carbon disulfide	ND		ug/kg	650	300	1
2-Butanone	ND		ug/kg	650	140	1
Vinyl acetate	ND		ug/kg	650	140	1
4-Methyl-2-pentanone	ND		ug/kg	650	83.	1
1,2,3-Trichloropropane	ND		ug/kg	130	8.3	1
2-Hexanone	ND		ug/kg	650	77.	1
Bromochloromethane	ND		ug/kg	130	13.	1
2,2-Dichloropropane	ND		ug/kg	130	13.	1
1,2-Dibromoethane	ND		ug/kg	65	18.	1
1,3-Dichloropropane	ND		ug/kg	130	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	33	8.6	1
Bromobenzene	ND		ug/kg	130	9.4	1
n-Butylbenzene	ND		ug/kg	65	11.	1
sec-Butylbenzene	ND		ug/kg	65	9.5	1
tert-Butylbenzene	ND		ug/kg	130	7.7	1
o-Chlorotoluene	ND		ug/kg	130	12.	1
p-Chlorotoluene	ND		ug/kg	130	7.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	65.	1
Hexachlorobutadiene	ND		ug/kg	260	11.	1
Isopropylbenzene	ND		ug/kg	65	7.1	1
p-Isopropyltoluene	ND		ug/kg	65	7.1	1
Naphthalene	ND		ug/kg	260	42.	1
Acrylonitrile	ND		ug/kg	260	75.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05 Date Collected: 05/18/21 10:00

Client ID: 10-B5 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	65	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	18.	1
1,3,5-Trimethylbenzene	ND		ug/kg	130	12.	1
1,2,4-Trimethylbenzene	ND		ug/kg	130	22.	1
1,4-Dioxane	ND		ug/kg	5200	2300	1
p-Diethylbenzene	ND		ug/kg	130	12.	1
p-Ethyltoluene	ND		ug/kg	130	25.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	130	12.	1
Ethyl ether	ND		ug/kg	130	22.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	330	93.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-06
Client ID: 6-B1 (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 10:30
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 18:39
Analyst: NLK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	300	140	1
1,1-Dichloroethane	ND		ug/kg	59	8.6	1
Chloroform	230		ug/kg	89	8.3	1
Carbon tetrachloride	ND		ug/kg	59	14.	1
1,2-Dichloropropane	ND		ug/kg	59	7.4	1
Dibromochloromethane	ND		ug/kg	59	8.3	1
1,1,2-Trichloroethane	ND		ug/kg	59	16.	1
Tetrachloroethene	14000		ug/kg	30	12.	1
Chlorobenzene	ND		ug/kg	30	7.6	1
Trichlorofluoromethane	ND		ug/kg	240	41.	1
1,2-Dichloroethane	ND		ug/kg	59	15.	1
1,1,1-Trichloroethane	61		ug/kg	30	9.9	1
Bromodichloromethane	ND		ug/kg	30	6.5	1
trans-1,3-Dichloropropene	ND		ug/kg	59	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	30	9.4	1
1,3-Dichloropropene, Total	ND		ug/kg	30	9.4	1
1,1-Dichloropropene	ND		ug/kg	30	9.4	1
Bromoform	ND		ug/kg	240	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	30	9.9	1
Benzene	ND		ug/kg	30	9.9	1
Toluene	ND		ug/kg	59	32.	1
Ethylbenzene	11	J	ug/kg	59	8.4	1
Chloromethane	ND		ug/kg	240	55.	1
Bromomethane	ND		ug/kg	120	34.	1
Vinyl chloride	91		ug/kg	59	20.	1
Chloroethane	ND		ug/kg	120	27.	1
1,1-Dichloroethene	14	J	ug/kg	59	14.	1
trans-1,2-Dichloroethene	83	J	ug/kg	89	8.1	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-06 Date Collected: 05/18/21 10:30

Client ID: 6-B1 (5.5-6) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	2000		ug/kg	30	8.1	1
1,2-Dichlorobenzene	48	J	ug/kg	120	8.6	1
1,3-Dichlorobenzene	ND		ug/kg	120	8.8	1
1,4-Dichlorobenzene	14	J	ug/kg	120	10.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	ND		ug/kg	120	33.	1
o-Xylene	ND		ug/kg	59	17.	1
Xylenes, Total	ND		ug/kg	59	17.	1
cis-1,2-Dichloroethene	12000		ug/kg	59	10.	1
1,2-Dichloroethene, Total	12000	J	ug/kg	59	8.1	1
Dibromomethane	ND		ug/kg	120	14.	1
Styrene	ND		ug/kg	59	12.	1
Dichlorodifluoromethane	ND		ug/kg	590	54.	1
Acetone	ND		ug/kg	590	290	1
Carbon disulfide	ND		ug/kg	590	270	1
2-Butanone	380	J	ug/kg	590	130	1
Vinyl acetate	ND		ug/kg	590	130	1
4-Methyl-2-pentanone	ND		ug/kg	590	76.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.6	1
2-Hexanone	ND		ug/kg	590	70.	1
Bromochloromethane	ND		ug/kg	120	12.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	59	16.	1
1,3-Dichloropropane	ND		ug/kg	120	9.9	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	30	7.8	1
Bromobenzene	ND		ug/kg	120	8.6	1
n-Butylbenzene	ND		ug/kg	59	9.9	1
sec-Butylbenzene	ND		ug/kg	59	8.7	1
tert-Butylbenzene	ND		ug/kg	120	7.0	1
o-Chlorotoluene	ND		ug/kg	120	11.	1
p-Chlorotoluene	ND		ug/kg	120	6.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	59.	1
Hexachlorobutadiene	ND		ug/kg	240	10.	1
Isopropylbenzene	ND		ug/kg	59	6.5	1
p-Isopropyltoluene	13	J	ug/kg	59	6.5	1
Naphthalene	ND		ug/kg	240	39.	1
Acrylonitrile	ND		ug/kg	240	68.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-06 Date Collected: 05/18/21 10:30

Client ID: 6-B1 (5.5-6) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	59	10.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	16.	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	20.	1
1,4-Dioxane	ND		ug/kg	4800	2100	1
p-Diethylbenzene	ND		ug/kg	120	10.	1
p-Ethyltoluene	ND		ug/kg	120	23.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	120	11.	1
Ethyl ether	ND		ug/kg	120	20.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	300	84.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	91		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-07
Client ID: 7-B4 (6-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 11:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 19:04
Analyst: NLK
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	330	150	1
1,1-Dichloroethane	ND		ug/kg	67	9.7	1
Chloroform	13	J	ug/kg	100	9.4	1
Carbon tetrachloride	ND		ug/kg	67	15.	1
1,2-Dichloropropane	ND		ug/kg	67	8.4	1
Dibromochloromethane	ND		ug/kg	67	9.4	1
1,1,2-Trichloroethane	ND		ug/kg	67	18.	1
Tetrachloroethene	180		ug/kg	33	13.	1
Chlorobenzene	ND		ug/kg	33	8.5	1
Trichlorofluoromethane	ND		ug/kg	270	46.	1
1,2-Dichloroethane	ND		ug/kg	67	17.	1
1,1,1-Trichloroethane	ND		ug/kg	33	11.	1
Bromodichloromethane	ND		ug/kg	33	7.3	1
trans-1,3-Dichloropropene	ND		ug/kg	67	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	33	10.	1
1,3-Dichloropropene, Total	ND		ug/kg	33	10.	1
1,1-Dichloropropene	ND		ug/kg	33	11.	1
Bromoform	ND		ug/kg	270	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	33	11.	1
Benzene	ND		ug/kg	33	11.	1
Toluene	ND		ug/kg	67	36.	1
Ethylbenzene	ND		ug/kg	67	9.4	1
Chloromethane	ND		ug/kg	270	62.	1
Bromomethane	ND		ug/kg	130	39.	1
Vinyl chloride	120		ug/kg	67	22.	1
Chloroethane	ND		ug/kg	130	30.	1
1,1-Dichloroethene	ND		ug/kg	67	16.	1
trans-1,2-Dichloroethene	36	J	ug/kg	100	9.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-07 Date Collected: 05/18/21 11:00

Client ID: 7-B4 (6-6.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	67		ug/kg	33	9.2	1
1,2-Dichlorobenzene	ND		ug/kg	130	9.6	1
1,3-Dichlorobenzene	ND		ug/kg	130	9.9	1
1,4-Dichlorobenzene	ND		ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	ND		ug/kg	130	37.	1
o-Xylene	ND		ug/kg	67	19.	1
Xylenes, Total	ND		ug/kg	67	19.	1
cis-1,2-Dichloroethene	390		ug/kg	67	12.	1
1,2-Dichloroethene, Total	430	J	ug/kg	67	9.2	1
Dibromomethane	ND		ug/kg	130	16.	1
Styrene	ND		ug/kg	67	13.	1
Dichlorodifluoromethane	ND		ug/kg	670	61.	1
Acetone	ND		ug/kg	670	320	1
Carbon disulfide	ND		ug/kg	670	300	1
2-Butanone	270	J	ug/kg	670	150	1
Vinyl acetate	ND		ug/kg	670	140	1
4-Methyl-2-pentanone	ND		ug/kg	670	86.	1
1,2,3-Trichloropropane	ND		ug/kg	130	8.5	1
2-Hexanone	ND		ug/kg	670	79.	1
Bromochloromethane	ND		ug/kg	130	14.	1
2,2-Dichloropropane	ND		ug/kg	130	14.	1
1,2-Dibromoethane	ND		ug/kg	67	19.	1
1,3-Dichloropropane	ND		ug/kg	130	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	33	8.8	1
Bromobenzene	ND		ug/kg	130	9.7	1
n-Butylbenzene	58	J	ug/kg	67	11.	1
sec-Butylbenzene	34	J	ug/kg	67	9.8	1
tert-Butylbenzene	12	J	ug/kg	130	7.9	1
o-Chlorotoluene	ND		ug/kg	130	13.	1
p-Chlorotoluene	ND		ug/kg	130	7.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	67.	1
Hexachlorobutadiene	17	J	ug/kg	270	11.	1
Isopropylbenzene	ND		ug/kg	67	7.3	1
p-Isopropyltoluene	8.4	J	ug/kg	67	7.3	1
Naphthalene	120	J	ug/kg	270	44.	1
Acrylonitrile	ND		ug/kg	270	77.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-07 Date Collected: 05/18/21 11:00

Client ID: 7-B4 (6-6.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	67	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	18.	1
1,3,5-Trimethylbenzene	ND		ug/kg	130	13.	1
1,2,4-Trimethylbenzene	ND		ug/kg	130	22.	1
1,4-Dioxane	ND		ug/kg	5400	2300	1
p-Diethylbenzene	81	J	ug/kg	130	12.	1
p-Ethyltoluene	ND		ug/kg	130	26.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	130	13.	1
Ethyl ether	ND		ug/kg	130	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	330	95.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	**135**	Q	70-130
Dibromofluoromethane	93		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-08
Client ID: 10-B3 (7-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/18/21 12:45
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 19:29
Analyst: NLK
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.56	J	ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	0.41	J	ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	0.22	J	ug/kg	0.54	0.18	1
Toluene	0.72	J	ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-08 Date Collected: 05/18/21 12:45

Client ID: 10-B3 (7-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.17	J	ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	0.57	J	ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	0.57	J	ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	0.90	J	ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	84		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	15		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	1.8	J	ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-08 Date Collected: 05/18/21 12:45

Client ID: 10-B3 (7-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	122		70-130
Dibromofluoromethane	81		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-09 Date Collected: 05/18/21 13:15
Client ID: 8-B1 (7.5-8) Date Received: 05/19/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 19:54
Analyst: NLK
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	0.20	J	ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	0.79		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.97	0.53	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	1.9	0.57	1
Vinyl chloride	ND		ug/kg	0.97	0.33	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-09 Date Collected: 05/18/21 13:15

Client ID: 8-B1 (7.5-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.35	J	ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.89	1
Acetone	ND		ug/kg	9.7	4.7	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.2	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.2	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.12	1
o-Chlorotoluene	ND		ug/kg	1.9	0.19	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.97	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.11	1
Naphthalene	ND		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-09 Date Collected: 05/18/21 13:15

Client ID: 8-B1 (7.5-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.97	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	78	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.19	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	98		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10 Date Collected: 05/18/21 13:30
Client ID: 8-B1 (14-15) Date Received: 05/19/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 20:19
Analyst: NLK
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	11	4.9	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.31	1
Chloroform	0.30	J	ug/kg	3.2	0.30	1
Carbon tetrachloride	ND		ug/kg	2.1	0.49	1
1,2-Dichloropropane	ND		ug/kg	2.1	0.27	1
Dibromochloromethane	ND		ug/kg	2.1	0.30	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.57	1
Tetrachloroethene	ND		ug/kg	1.1	0.42	1
Chlorobenzene	4.1		ug/kg	1.1	0.27	1
Trichlorofluoromethane	ND		ug/kg	8.5	1.5	1
1,2-Dichloroethane	ND		ug/kg	2.1	0.55	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.36	1
Bromodichloromethane	ND		ug/kg	1.1	0.23	1
trans-1,3-Dichloropropene	ND		ug/kg	2.1	0.58	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.34	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.34	1
1,1-Dichloropropene	ND		ug/kg	1.1	0.34	1
Bromoform	ND		ug/kg	8.5	0.52	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Benzene	27		ug/kg	1.1	0.35	1
Toluene	3.4		ug/kg	2.1	1.2	1
Ethylbenzene	3.5		ug/kg	2.1	0.30	1
Chloromethane	ND		ug/kg	8.5	2.0	1
Bromomethane	ND		ug/kg	4.3	1.2	1
Vinyl chloride	ND		ug/kg	2.1	0.71	1
Chloroethane	ND		ug/kg	4.3	0.96	1
1,1-Dichloroethene	ND		ug/kg	2.1	0.51	1
trans-1,2-Dichloroethene	ND		ug/kg	3.2	0.29	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10 Date Collected: 05/18/21 13:30

Client ID: 8-B1 (14-15) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.29	1
1,2-Dichlorobenzene	ND		ug/kg	4.3	0.31	1
1,3-Dichlorobenzene	ND		ug/kg	4.3	0.32	1
1,4-Dichlorobenzene	ND		ug/kg	4.3	0.36	1
Methyl tert butyl ether	ND		ug/kg	4.3	0.43	1
p/m-Xylene	5.3		ug/kg	4.3	1.2	1
o-Xylene	5.6		ug/kg	2.1	0.62	1
Xylenes, Total	11		ug/kg	2.1	0.62	1
cis-1,2-Dichloroethene	ND		ug/kg	2.1	0.37	1
1,2-Dichloroethene, Total	ND		ug/kg	2.1	0.29	1
Dibromomethane	ND		ug/kg	4.3	0.51	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	21	2.0	1
Acetone	350		ug/kg	21	10.	1
Carbon disulfide	ND		ug/kg	21	9.7	1
2-Butanone	110		ug/kg	21	4.7	1
Vinyl acetate	ND		ug/kg	21	4.6	1
4-Methyl-2-pentanone	ND		ug/kg	21	2.7	1
1,2,3-Trichloropropane	ND		ug/kg	4.3	0.27	1
2-Hexanone	ND		ug/kg	21	2.5	1
Bromochloromethane	ND		ug/kg	4.3	0.44	1
2,2-Dichloropropane	ND		ug/kg	4.3	0.43	1
1,2-Dibromoethane	ND		ug/kg	2.1	0.60	1
1,3-Dichloropropane	ND		ug/kg	4.3	0.36	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.28	1
Bromobenzene	ND		ug/kg	4.3	0.31	1
n-Butylbenzene	0.63	J	ug/kg	2.1	0.36	1
sec-Butylbenzene	5.6		ug/kg	2.1	0.31	1
tert-Butylbenzene	1.9	J	ug/kg	4.3	0.25	1
o-Chlorotoluene	ND		ug/kg	4.3	0.41	1
p-Chlorotoluene	ND		ug/kg	4.3	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	2.1	1
Hexachlorobutadiene	ND		ug/kg	8.5	0.36	1
Isopropylbenzene	8.4		ug/kg	2.1	0.23	1
p-Isopropyltoluene	9.2		ug/kg	2.1	0.23	1
Naphthalene	59		ug/kg	8.5	1.4	1
Acrylonitrile	ND		ug/kg	8.5	2.4	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10 Date Collected: 05/18/21 13:30

Client ID: 8-B1 (14-15) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	4.7		ug/kg	2.1	0.36	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.3	0.69	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.3	0.58	1
1,3,5-Trimethylbenzene	32		ug/kg	4.3	0.41	1
1,2,4-Trimethylbenzene	51		ug/kg	4.3	0.71	1
1,4-Dioxane	ND		ug/kg	170	75.	1
p-Diethylbenzene	0.56	J	ug/kg	4.3	0.38	1
p-Ethyltoluene	4.6		ug/kg	4.3	0.82	1
1,2,4,5-Tetramethylbenzene	2.0	J	ug/kg	4.3	0.41	1
Ethyl ether	ND		ug/kg	4.3	0.73	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	11	3.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	128		70-130
Dibromofluoromethane	93		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-11
Client ID: 10-B4 (5-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 14:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 20:44
Analyst: NLK
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.1	3.3	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.21	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.33	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	0.79		ug/kg	0.71	0.28	1
Chlorobenzene	ND		ug/kg	0.71	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.99	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.37	1
1,1,1-Trichloroethane	ND		ug/kg	0.71	0.24	1
Bromodichloromethane	ND		ug/kg	0.71	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.39	1
cis-1,3-Dichloropropene	ND		ug/kg	0.71	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.71	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.71	0.23	1
Bromoform	ND		ug/kg	5.7	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.71	0.24	1
Benzene	ND		ug/kg	0.71	0.24	1
Toluene	ND		ug/kg	1.4	0.77	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.7	1.3	1
Bromomethane	ND		ug/kg	2.8	0.83	1
Vinyl chloride	ND		ug/kg	1.4	0.48	1
Chloroethane	ND		ug/kg	2.8	0.64	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.20	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-11 Date Collected: 05/18/21 14:00

Client ID: 10-B4 (5-5.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.30	J	ug/kg	0.71	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.29	1
p/m-Xylene	ND		ug/kg	2.8	0.80	1
o-Xylene	ND		ug/kg	1.4	0.42	1
Xylenes, Total	ND		ug/kg	1.4	0.42	1
cis-1,2-Dichloroethene	0.55	J	ug/kg	1.4	0.25	1
1,2-Dichloroethene, Total	0.55	J	ug/kg	1.4	0.20	1
Dibromomethane	ND		ug/kg	2.8	0.34	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	ND		ug/kg	14	6.9	1
Carbon disulfide	ND		ug/kg	14	6.5	1
2-Butanone	ND		ug/kg	14	3.2	1
Vinyl acetate	ND		ug/kg	14	3.1	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	0.18	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.8	0.29	1
2,2-Dichloropropane	ND		ug/kg	2.8	0.29	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.40	1
1,3-Dichloropropane	ND		ug/kg	2.8	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.71	0.19	1
Bromobenzene	ND		ug/kg	2.8	0.21	1
n-Butylbenzene	0.91	J	ug/kg	1.4	0.24	1
sec-Butylbenzene	0.81	J	ug/kg	1.4	0.21	1
tert-Butylbenzene	ND		ug/kg	2.8	0.17	1
o-Chlorotoluene	ND		ug/kg	2.8	0.27	1
p-Chlorotoluene	ND		ug/kg	2.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.3	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.24	1
Isopropylbenzene	0.39	J	ug/kg	1.4	0.16	1
p-Isopropyltoluene	0.83	J	ug/kg	1.4	0.16	1
Naphthalene	ND		ug/kg	5.7	0.93	1
Acrylonitrile	ND		ug/kg	5.7	1.6	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-11 Date Collected: 05/18/21 14:00

Client ID: 10-B4 (5-5.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	1.0	J	ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.46	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.39	1
1,3,5-Trimethylbenzene	1.2	J	ug/kg	2.8	0.28	1
1,2,4-Trimethylbenzene	6.5		ug/kg	2.8	0.48	1
1,4-Dioxane	ND		ug/kg	110	50.	1
p-Diethylbenzene	0.59	J	ug/kg	2.8	0.25	1
p-Ethyltoluene	2.6	J	ug/kg	2.8	0.55	1
1,2,4,5-Tetramethylbenzene	0.62	J	ug/kg	2.8	0.27	1
Ethyl ether	ND		ug/kg	2.8	0.49	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.1	2.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	95		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-12 Date Collected: 05/18/21 15:00
Client ID: 10-B4 (18-18.5) Date Received: 05/19/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/21 21:09
Analyst: NLK
Percent Solids: 26%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	30	14.	1
1,1-Dichloroethane	1.2	J	ug/kg	5.9	0.86	1
Chloroform	ND		ug/kg	8.8	0.83	1
Carbon tetrachloride	ND		ug/kg	5.9	1.4	1
1,2-Dichloropropane	ND		ug/kg	5.9	0.74	1
Dibromochloromethane	ND		ug/kg	5.9	0.83	1
1,1,2-Trichloroethane	ND		ug/kg	5.9	1.6	1
Tetrachloroethene	ND		ug/kg	3.0	1.2	1
Chlorobenzene	ND		ug/kg	3.0	0.75	1
Trichlorofluoromethane	ND		ug/kg	24	4.1	1
1,2-Dichloroethane	ND		ug/kg	5.9	1.5	1
1,1,1-Trichloroethane	ND		ug/kg	3.0	0.99	1
Bromodichloromethane	ND		ug/kg	3.0	0.64	1
trans-1,3-Dichloropropene	ND		ug/kg	5.9	1.6	1
cis-1,3-Dichloropropene	ND		ug/kg	3.0	0.93	1
1,3-Dichloropropene, Total	ND		ug/kg	3.0	0.93	1
1,1-Dichloropropene	ND		ug/kg	3.0	0.94	1
Bromoform	ND		ug/kg	24	1.4	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.0	0.98	1
Benzene	15		ug/kg	3.0	0.98	1
Toluene	140		ug/kg	5.9	3.2	1
Ethylbenzene	7.6		ug/kg	5.9	0.83	1
Chloromethane	ND		ug/kg	24	5.5	1
Bromomethane	ND		ug/kg	12	3.4	1
Vinyl chloride	ND		ug/kg	5.9	2.0	1
Chloroethane	ND		ug/kg	12	2.7	1
1,1-Dichloroethene	ND		ug/kg	5.9	1.4	1
trans-1,2-Dichloroethene	ND		ug/kg	8.8	0.81	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-12 Date Collected: 05/18/21 15:00

Client ID: 10-B4 (18-18.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	3.0	0.81	1
1,2-Dichlorobenzene	ND		ug/kg	12	0.85	1
1,3-Dichlorobenzene	ND		ug/kg	12	0.87	1
1,4-Dichlorobenzene	ND		ug/kg	12	1.0	1
Methyl tert butyl ether	ND		ug/kg	12	1.2	1
p/m-Xylene	ND		ug/kg	12	3.3	1
o-Xylene	ND		ug/kg	5.9	1.7	1
Xylenes, Total	ND		ug/kg	5.9	1.7	1
cis-1,2-Dichloroethene	ND		ug/kg	5.9	1.0	1
1,2-Dichloroethene, Total	ND		ug/kg	5.9	0.81	1
Dibromomethane	ND		ug/kg	12	1.4	1
Styrene	ND		ug/kg	5.9	1.2	1
Dichlorodifluoromethane	ND		ug/kg	59	5.4	1
Acetone	1000		ug/kg	59	28.	1
Carbon disulfide	92		ug/kg	59	27.	1
2-Butanone	330		ug/kg	59	13.	1
Vinyl acetate	ND		ug/kg	59	13.	1
4-Methyl-2-pentanone	ND		ug/kg	59	7.6	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.75	1
2-Hexanone	ND		ug/kg	59	7.0	1
Bromochloromethane	ND		ug/kg	12	1.2	1
2,2-Dichloropropane	ND		ug/kg	12	1.2	1
1,2-Dibromoethane	ND		ug/kg	5.9	1.6	1
1,3-Dichloropropane	ND		ug/kg	12	0.99	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	3.0	0.78	1
Bromobenzene	ND		ug/kg	12	0.86	1
n-Butylbenzene	ND		ug/kg	5.9	0.99	1
sec-Butylbenzene	ND		ug/kg	5.9	0.86	1
tert-Butylbenzene	ND		ug/kg	12	0.70	1
o-Chlorotoluene	ND		ug/kg	12	1.1	1
p-Chlorotoluene	ND		ug/kg	12	0.64	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	18	5.9	1
Hexachlorobutadiene	ND		ug/kg	24	1.0	1
Isopropylbenzene	ND		ug/kg	5.9	0.64	1
p-Isopropyltoluene	ND		ug/kg	5.9	0.64	1
Naphthalene	ND		ug/kg	24	3.8	1
Acrylonitrile	ND		ug/kg	24	6.8	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-12 Date Collected: 05/18/21 15:00

Client ID: 10-B4 (18-18.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	5.9	1.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	12	1.9	1
1,2,4-Trichlorobenzene	ND		ug/kg	12	1.6	1
1,3,5-Trimethylbenzene	ND		ug/kg	12	1.1	1
1,2,4-Trimethylbenzene	ND		ug/kg	12	2.0	1
1,4-Dioxane	ND		ug/kg	470	210	1
p-Diethylbenzene	ND		ug/kg	12	1.0	1
p-Ethyltoluene	ND		ug/kg	12	2.3	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	12	1.1	1
Ethyl ether	ND		ug/kg	12	2.0	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	30	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	127		70-130
Dibromofluoromethane	95		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:08
Analyst: KTD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,08-12 Batch: WG1502600-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.21	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:08
Analyst: KTD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,08-12 Batch: WG1502600-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	2.5	J	ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:08
Analyst: KTD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,08-12 Batch: WG1502600-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	92		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:08
Analyst: KTD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06-07 Batch: WG1502603-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	10	J	ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:08
Analyst: KTD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06-07 Batch: WG1502603-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	130	J	ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/21/21 16:08
Analyst: KTD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06-07 Batch: WG1502603-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	92		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/24/21 07:38
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1503429-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/24/21 07:38
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1503429-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/24/21 07:38
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1503429-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-12 Batch: WG1502600-3 WG1502600-4								
Methylene chloride	104		104		70-130	0		30
1,1-Dichloroethane	121		119		70-130	2		30
Chloroform	102		101		70-130	1		30
Carbon tetrachloride	91		87		70-130	4		30
1,2-Dichloropropane	124		123		70-130	1		30
Dibromochloromethane	98		96		70-130	2		30
1,1,2-Trichloroethane	113		113		70-130	0		30
Tetrachloroethene	91		87		70-130	4		30
Chlorobenzene	100		98		70-130	2		30
Trichlorofluoromethane	**64**	Q	**62**	Q	70-139	3		30
1,2-Dichloroethane	109		109		70-130	0		30
1,1,1-Trichloroethane	93		90		70-130	3		30
Bromodichloromethane	99		98		70-130	1		30
trans-1,3-Dichloropropene	116		115		70-130	1		30
cis-1,3-Dichloropropene	111		110		70-130	1		30
1,1-Dichloropropene	108		105		70-130	3		30
Bromoform	93		94		70-130	1		30
1,1,2,2-Tetrachloroethane	120		119		70-130	1		30
Benzene	108		107		70-130	1		30
Toluene	110		107		70-130	3		30
Ethylbenzene	107		104		70-130	3		30
Chloromethane	**151**	Q	**149**	Q	52-130	1		30
Bromomethane	80		76		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-12 Batch: WG1502600-3 WG1502600-4								
Vinyl chloride	102		98		67-130	4		30
Chloroethane	79		77		50-151	3		30
1,1-Dichloroethene	102		98		65-135	4		30
trans-1,2-Dichloroethene	101		99		70-130	2		30
Trichloroethene	94		92		70-130	2		30
1,2-Dichlorobenzene	99		98		70-130	1		30
1,3-Dichlorobenzene	100		98		70-130	2		30
1,4-Dichlorobenzene	100		98		70-130	2		30
Methyl tert butyl ether	111		111		66-130	0		30
p/m-Xylene	99		96		70-130	3		30
o-Xylene	99		97		70-130	2		30
cis-1,2-Dichloroethene	102		100		70-130	2		30
Dibromomethane	98		97		70-130	1		30
Styrene	102		99		70-130	3		30
Dichlorodifluoromethane	110		105		30-146	5		30
Acetone	**164**	Q	**160**	Q	54-140	2		30
Carbon disulfide	110		107		59-130	3		30
2-Butanone	**151**	Q	**148**	Q	70-130	2		30
Vinyl acetate	**146**	Q	**147**	Q	70-130	1		30
4-Methyl-2-pentanone	129		127		70-130	2		30
1,2,3-Trichloropropane	120		121		68-130	1		30
2-Hexanone	**142**	Q	**142**	Q	70-130	0		30
Bromochloromethane	90		90		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-12 Batch: WG1502600-3 WG1502600-4								
2,2-Dichloropropane	103		100		70-130	3		30
1,2-Dibromoethane	105		103		70-130	2		30
1,3-Dichloropropane	119		118		69-130	1		30
1,1,1,2-Tetrachloroethane	97		96		70-130	1		30
Bromobenzene	98		98		70-130	0		30
n-Butylbenzene	112		109		70-130	3		30
sec-Butylbenzene	109		105		70-130	4		30
tert-Butylbenzene	105		102		70-130	3		30
o-Chlorotoluene	128		126		70-130	2		30
p-Chlorotoluene	116		113		70-130	3		30
1,2-Dibromo-3-chloropropane	96		97		68-130	1		30
Hexachlorobutadiene	95		92		67-130	3		30
Isopropylbenzene	109		106		70-130	3		30
p-Isopropyltoluene	105		102		70-130	3		30
Naphthalene	103		104		70-130	1		30
Acrylonitrile	**140**	Q	**141**	Q	70-130	1		30
n-Propylbenzene	114		110		70-130	4		30
1,2,3-Trichlorobenzene	98		98		70-130	0		30
1,2,4-Trichlorobenzene	98		99		70-130	1		30
1,3,5-Trimethylbenzene	107		105		70-130	2		30
1,2,4-Trimethylbenzene	106		103		70-130	3		30
1,4-Dioxane	93		95		65-136	2		30
p-Diethylbenzene	105		103		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-12 Batch: WG1502600-3 WG1502600-4								
p-Ethyltoluene	108		106		70-130	2		30
1,2,4,5-Tetramethylbenzene	106		105		70-130	1		30
Ethyl ether	114		114		67-130	0		30
trans-1,4-Dichloro-2-butene	130		129		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		105		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	115		115		70-130
Dibromofluoromethane	92		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06-07 Batch: WG1502603-3 WG1502603-4								
Methylene chloride	104		104		70-130	0		30
1,1-Dichloroethane	121		119		70-130	2		30
Chloroform	102		101		70-130	1		30
Carbon tetrachloride	91		87		70-130	4		30
1,2-Dichloropropane	124		123		70-130	1		30
Dibromochloromethane	98		96		70-130	2		30
1,1,2-Trichloroethane	113		113		70-130	0		30
Tetrachloroethene	91		87		70-130	4		30
Chlorobenzene	100		98		70-130	2		30
Trichlorofluoromethane	**64**	Q	**62**	Q	70-139	3		30
1,2-Dichloroethane	109		109		70-130	0		30
1,1,1-Trichloroethane	93		90		70-130	3		30
Bromodichloromethane	99		98		70-130	1		30
trans-1,3-Dichloropropene	116		115		70-130	1		30
cis-1,3-Dichloropropene	111		110		70-130	1		30
1,1-Dichloropropene	108		105		70-130	3		30
Bromoform	93		94		70-130	1		30
1,1,2,2-Tetrachloroethane	120		119		70-130	1		30
Benzene	108		107		70-130	1		30
Toluene	110		107		70-130	3		30
Ethylbenzene	107		104		70-130	3		30
Chloromethane	**151**	Q	**149**	Q	52-130	1		30
Bromomethane	80		76		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06-07 Batch: WG1502603-3 WG1502603-4								
Vinyl chloride	102		98		67-130	4		30
Chloroethane	79		77		50-151	3		30
1,1-Dichloroethene	102		98		65-135	4		30
trans-1,2-Dichloroethene	101		99		70-130	2		30
Trichloroethene	94		92		70-130	2		30
1,2-Dichlorobenzene	99		98		70-130	1		30
1,3-Dichlorobenzene	100		98		70-130	2		30
1,4-Dichlorobenzene	100		98		70-130	2		30
Methyl tert butyl ether	111		111		66-130	0		30
p/m-Xylene	99		96		70-130	3		30
o-Xylene	99		97		70-130	2		30
cis-1,2-Dichloroethene	102		100		70-130	2		30
Dibromomethane	98		97		70-130	1		30
Styrene	102		99		70-130	3		30
Dichlorodifluoromethane	110		105		30-146	5		30
Acetone	**164**	Q	**160**	Q	54-140	2		30
Carbon disulfide	110		107		59-130	3		30
2-Butanone	**151**	Q	**148**	Q	70-130	2		30
Vinyl acetate	**146**	Q	**147**	Q	70-130	1		30
4-Methyl-2-pentanone	129		127		70-130	2		30
1,2,3-Trichloropropane	120		121		68-130	1		30
2-Hexanone	**142**	Q	**142**	Q	70-130	0		30
Bromochloromethane	90		90		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06-07 Batch: WG1502603-3 WG1502603-4								
2,2-Dichloropropane	103		100		70-130	3		30
1,2-Dibromoethane	105		103		70-130	2		30
1,3-Dichloropropane	119		118		69-130	1		30
1,1,1,2-Tetrachloroethane	97		96		70-130	1		30
Bromobenzene	98		98		70-130	0		30
n-Butylbenzene	112		109		70-130	3		30
sec-Butylbenzene	109		105		70-130	4		30
tert-Butylbenzene	105		102		70-130	3		30
o-Chlorotoluene	128		126		70-130	2		30
p-Chlorotoluene	116		113		70-130	3		30
1,2-Dibromo-3-chloropropane	96		97		68-130	1		30
Hexachlorobutadiene	95		92		67-130	3		30
Isopropylbenzene	109		106		70-130	3		30
p-Isopropyltoluene	105		102		70-130	3		30
Naphthalene	103		104		70-130	1		30
Acrylonitrile	**140**	Q	**141**	Q	70-130	1		30
n-Propylbenzene	114		110		70-130	4		30
1,2,3-Trichlorobenzene	98		98		70-130	0		30
1,2,4-Trichlorobenzene	98		99		70-130	1		30
1,3,5-Trimethylbenzene	107		105		70-130	2		30
1,2,4-Trimethylbenzene	106		103		70-130	3		30
1,4-Dioxane	93		95		65-136	2		30
p-Diethylbenzene	105		103		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06-07 Batch: WG1502603-3 WG1502603-4								
p-Ethyltoluene	108		106		70-130	2		30
1,2,4,5-Tetramethylbenzene	106		105		70-130	1		30
Ethyl ether	114		114		67-130	0		30
trans-1,4-Dichloro-2-butene	130		129		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		105		70-130
Toluene-d8	106		106		70-130
4-Bromofluorobenzene	115		115		70-130
Dibromofluoromethane	92		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1503429-3 WG1503429-4								
Methylene chloride	97		96		70-130	1		30
1,1-Dichloroethane	113		108		70-130	5		30
Chloroform	109		106		70-130	3		30
Carbon tetrachloride	118		113		70-130	4		30
1,2-Dichloropropane	113		106		70-130	6		30
Dibromochloromethane	120		120		70-130	0		30
1,1,2-Trichloroethane	117		113		70-130	3		30
Tetrachloroethene	120		114		70-130	5		30
Chlorobenzene	110		106		70-130	4		30
Trichlorofluoromethane	119		117		70-139	2		30
1,2-Dichloroethane	110		107		70-130	3		30
1,1,1-Trichloroethane	112		107		70-130	5		30
Bromodichloromethane	115		113		70-130	2		30
trans-1,3-Dichloropropene	119		117		70-130	2		30
cis-1,3-Dichloropropene	117		115		70-130	2		30
1,1-Dichloropropene	117		112		70-130	4		30
Bromoform	114		115		70-130	1		30
1,1,2,2-Tetrachloroethane	114		115		70-130	1		30
Benzene	111		106		70-130	5		30
Toluene	112		108		70-130	4		30
Ethylbenzene	113		108		70-130	5		30
Chloromethane	**136**	Q	125		52-130	8		30
Bromomethane	104		106		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1503429-3 WG1503429-4								
Vinyl chloride	129		125		67-130	3		30
Chloroethane	122		120		50-151	2		30
1,1-Dichloroethene	112		108		65-135	4		30
trans-1,2-Dichloroethene	114		109		70-130	4		30
Trichloroethene	113		108		70-130	5		30
1,2-Dichlorobenzene	111		110		70-130	1		30
1,3-Dichlorobenzene	112		110		70-130	2		30
1,4-Dichlorobenzene	108		106		70-130	2		30
Methyl tert butyl ether	107		106		66-130	1		30
p/m-Xylene	114		111		70-130	3		30
o-Xylene	114		109		70-130	4		30
cis-1,2-Dichloroethene	112		110		70-130	2		30
Dibromomethane	116		112		70-130	4		30
Styrene	116		114		70-130	2		30
Dichlorodifluoromethane	**178**	Q	**168**	Q	30-146	6		30
Acetone	93		90		54-140	3		30
Carbon disulfide	107		103		59-130	4		30
2-Butanone	92		95		70-130	3		30
Vinyl acetate	128		125		70-130	2		30
4-Methyl-2-pentanone	110		110		70-130	0		30
1,2,3-Trichloropropane	109		108		68-130	1		30
2-Hexanone	100		101		70-130	1		30
Bromochloromethane	115		114		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1503429-3 WG1503429-4								
2,2-Dichloropropane	115		109		70-130	5		30
1,2-Dibromoethane	107		106		70-130	1		30
1,3-Dichloropropane	112		110		69-130	2		30
1,1,1,2-Tetrachloroethane	115		114		70-130	1		30
Bromobenzene	111		110		70-130	1		30
n-Butylbenzene	115		110		70-130	4		30
sec-Butylbenzene	114		110		70-130	4		30
tert-Butylbenzene	115		110		70-130	4		30
o-Chlorotoluene	93		90		70-130	3		30
p-Chlorotoluene	111		107		70-130	4		30
1,2-Dibromo-3-chloropropane	98		99		68-130	1		30
Hexachlorobutadiene	111		110		67-130	1		30
Isopropylbenzene	114		110		70-130	4		30
p-Isopropyltoluene	116		112		70-130	4		30
Naphthalene	108		111		70-130	3		30
Acrylonitrile	104		98		70-130	6		30
n-Propylbenzene	114		109		70-130	4		30
1,2,3-Trichlorobenzene	111		112		70-130	1		30
1,2,4-Trichlorobenzene	112		113		70-130	1		30
1,3,5-Trimethylbenzene	114		110		70-130	4		30
1,2,4-Trimethylbenzene	112		108		70-130	4		30
1,4-Dioxane	85		93		65-136	9		30
p-Diethylbenzene	116		112		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1503429-3 WG1503429-4								
p-Ethyltoluene	112		109		70-130	3		30
1,2,4,5-Tetramethylbenzene	115		113		70-130	2		30
Ethyl ether	109		108		67-130	1		30
trans-1,4-Dichloro-2-butene	122		118		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		101		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	100		98		70-130
Dibromofluoromethane	103		101		70-130

SEMIVOLATILES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-01
Client ID: 2-B2 (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 08:15
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/21 11:03
Analyst: SZ
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	19	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	370		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-01 Date Collected: 05/18/21 08:15

Client ID: 2-B2 (9.5-10) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	180		ug/kg	110	20.	1
Benzo(a)pyrene	180		ug/kg	150	45.	1
Benzo(b)fluoranthene	230		ug/kg	110	31.	1
Benzo(k)fluoranthene	65	J	ug/kg	110	29.	1
Chrysene	180		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	49	J	ug/kg	110	36.	1
Benzo(ghi)perylene	110	J	ug/kg	150	22.	1
Fluorene	21	J	ug/kg	180	18.	1
Phenanthrene	200		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	25	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	150	25.	1
Pyrene	370		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-01 Date Collected: 05/18/21 08:15

Client ID: 2-B2 (9.5-10) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	19	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	97		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-02
Client ID: 1-B2 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 08:30
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/21 15:25
Analyst: SZ
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	77	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	1600		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	170	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-02 Date Collected: 05/18/21 08:30

Client ID: 1-B2 (7.5-8.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	1000		ug/kg	110	20.	1
Benzo(a)pyrene	1000		ug/kg	150	44.	1
Benzo(b)fluoranthene	1200		ug/kg	110	31.	1
Benzo(k)fluoranthene	400		ug/kg	110	29.	1
Chrysene	970		ug/kg	110	19.	1
Acenaphthylene	76	J	ug/kg	150	28.	1
Anthracene	280		ug/kg	110	36.	1
Benzo(ghi)perylene	650		ug/kg	150	21.	1
Fluorene	97	J	ug/kg	180	18.	1
Phenanthrene	840		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	160		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	690		ug/kg	150	25.	1
Pyrene	1600		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	58	J	ug/kg	180	17.	1
2-Methylnaphthalene	36	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	40	J	ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	210	J	ug/kg	260	28.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-02 Date Collected: 05/18/21 08:30

Client ID: 1-B2 (7.5-8.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	67	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	91		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-03
Client ID: 4-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 09:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/21 15:46
Analyst: SZ
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	160		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	2100		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	85	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-03 Date Collected: 05/18/21 09:00

Client ID: 4-B2 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	1600		ug/kg	110	21.	1
Benzo(a)pyrene	1200		ug/kg	150	45.	1
Benzo(b)fluoranthene	1200		ug/kg	110	31.	1
Benzo(k)fluoranthene	520		ug/kg	110	29.	1
Chrysene	1600		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	670		ug/kg	110	36.	1
Benzo(ghi)perylene	690		ug/kg	150	22.	1
Fluorene	200		ug/kg	180	18.	1
Phenanthrene	2000		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	170		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	650		ug/kg	150	26.	1
Pyrene	2600		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	42	J	ug/kg	180	17.	1
2-Methylnaphthalene	46	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-03 Date Collected: 05/18/21 09:00

Client ID: 4-B2 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	56	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	76		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-04
Client ID: 5-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 09:45
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/21 16:08
Analyst: SZ
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	70	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	210	20.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	41.	1
2,6-Dinitrotoluene	ND		ug/kg	210	35.	1
Fluoranthene	860		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	160	J	ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	73	J	ug/kg	210	71.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	70.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-04 Date Collected: 05/18/21 09:45

Client ID: 5-B1 (8.5-9) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	43.	1
Benzo(a)anthracene	480		ug/kg	120	23.	1
Benzo(a)pyrene	370		ug/kg	160	50.	1
Benzo(b)fluoranthene	470		ug/kg	120	35.	1
Benzo(k)fluoranthene	130		ug/kg	120	33.	1
Chrysene	450		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	190		ug/kg	120	40.	1
Benzo(ghi)perylene	220		ug/kg	160	24.	1
Fluorene	130	J	ug/kg	210	20.	1
Phenanthrene	720		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	64	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	230		ug/kg	160	29.	1
Pyrene	820		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	55	J	ug/kg	210	20.	1
2-Methylnaphthalene	45	J	ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	210	68.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	40	J	ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	230	J	ug/kg	300	32.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-04 Date Collected: 05/18/21 09:45

Client ID: 5-B1 (8.5-9) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	63.	1
Carbazole	46	J	ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	63		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05
Client ID: 10-B5 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 10:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/21 16:30
Analyst: SZ
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	870		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	10000	E	ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	580		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	470		ug/kg	210	72.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05 Date Collected: 05/18/21 10:00

Client ID: 10-B5 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	6900		ug/kg	120	24.	1
Benzo(a)pyrene	6000		ug/kg	170	51.	1
Benzo(b)fluoranthene	7800		ug/kg	120	35.	1
Benzo(k)fluoranthene	1900		ug/kg	120	34.	1
Chrysene	6500		ug/kg	120	22.	1
Acenaphthylene	240		ug/kg	170	32.	1
Anthracene	3400		ug/kg	120	41.	1
Benzo(ghi)perylene	4100		ug/kg	170	25.	1
Fluorene	1200		ug/kg	210	20.	1
Phenanthrene	8900	E	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	1200		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	4600		ug/kg	170	29.	1
Pyrene	10000	E	ug/kg	120	21.	1
Biphenyl	110	J	ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	530		ug/kg	210	20.	1
2-Methylnaphthalene	290		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	79.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	59	J	ug/kg	300	33.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05 Date Collected: 05/18/21 10:00

Client ID: 10-B5 (6.5-7) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	650		ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	103		23-120
2-Fluorobiphenyl	100		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	108		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05 D
Client ID: 10-B5 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 14:52
Analyst: IM
Percent Solids: 79%

Date Collected: 05/18/21 10:00
Date Received: 05/19/21
Field Prep: Not Specified

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	15000		ug/kg	630	120	5
Phenanthrene	13000		ug/kg	630	130	5
Pyrene	14000		ug/kg	630	100	5

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-06
Client ID: 6-B1 (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 10:30
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/21 16:52
Analyst: SZ
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	72	J	ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	230		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	26	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	150	J	ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-06 Date Collected: 05/18/21 10:30

Client ID: 6-B1 (5.5-6) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	140		ug/kg	110	20.	1
Benzo(a)pyrene	150		ug/kg	150	44.	1
Benzo(b)fluoranthene	180		ug/kg	110	31.	1
Benzo(k)fluoranthene	74	J	ug/kg	110	29.	1
Chrysene	170		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	40	J	ug/kg	110	36.	1
Benzo(ghi)perylene	86	J	ug/kg	150	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	160		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	26	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	76	J	ug/kg	150	25.	1
Pyrene	240		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-06 Date Collected: 05/18/21 10:30

Client ID: 6-B1 (5.5-6) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	18	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	46		10-136
4-Terphenyl-d14	60		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-07
Client ID: 7-B4 (6-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 11:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/21 17:13
Analyst: SZ
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	39	J	ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	53	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-07 Date Collected: 05/18/21 11:00

Client ID: 7-B4 (6-6.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	36	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	52	J	ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	45	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	23	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	30	J	ug/kg	160	28.	1
Pyrene	59	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-07 Date Collected: 05/18/21 11:00

Client ID: 7-B4 (6-6.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	112		30-120
2,4,6-Tribromophenol	46		10-136
4-Terphenyl-d14	108		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-08
Client ID: 10-B3 (7-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 12:45
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 03:28
Analyst: SZ
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 19:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	130	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	1200		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	95	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-08 Date Collected: 05/18/21 12:45

Client ID: 10-B3 (7-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	630		ug/kg	120	22.	1
Benzo(a)pyrene	570		ug/kg	160	49.	1
Benzo(b)fluoranthene	640		ug/kg	120	34.	1
Benzo(k)fluoranthene	260		ug/kg	120	32.	1
Chrysene	580		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	220		ug/kg	120	39.	1
Benzo(ghi)perylene	340		ug/kg	160	24.	1
Fluorene	110	J	ug/kg	200	19.	1
Phenanthrene	1000		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	72	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	350		ug/kg	160	28.	1
Pyrene	1200		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	65	J	ug/kg	200	19.	1
2-Methylnaphthalene	32	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-08 Date Collected: 05/18/21 12:45

Client ID: 10-B3 (7-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	94	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	89		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-09
Client ID: 8-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 13:15
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 03:06
Analyst: SZ
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 19:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	24	J	ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	600		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	44	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-09 Date Collected: 05/18/21 13:15

Client ID: 8-B1 (7.5-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	330		ug/kg	110	20.	1
Benzo(a)pyrene	360		ug/kg	140	44.	1
Benzo(b)fluoranthene	400		ug/kg	110	30.	1
Benzo(k)fluoranthene	130		ug/kg	110	29.	1
Chrysene	330		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	85	J	ug/kg	110	35.	1
Benzo(ghi)perylene	230		ug/kg	140	21.	1
Fluorene	28	J	ug/kg	180	18.	1
Phenanthrene	330		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	49	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	230		ug/kg	140	25.	1
Pyrene	590		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	19	J	ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-09 Date Collected: 05/18/21 13:15

Client ID: 8-B1 (7.5-8) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	47	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	109		25-120
Phenol-d6	105		10-120
Nitrobenzene-d5	**122**	Q	23-120
2-Fluorobiphenyl	109		30-120
2,4,6-Tribromophenol	111		10-136
4-Terphenyl-d14	88		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10 D
Client ID: 8-B1 (14-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 13:30
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 15:31
Analyst: IM
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 19:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	5300	680	10
1,2,4-Trichlorobenzene	ND		ug/kg	6600	750	10
Hexachlorobenzene	ND		ug/kg	3900	740	10
Bis(2-chloroethyl)ether	ND		ug/kg	5900	890	10
2-Chloronaphthalene	ND		ug/kg	6600	650	10
1,2-Dichlorobenzene	ND		ug/kg	6600	1200	10
1,3-Dichlorobenzene	ND		ug/kg	6600	1100	10
1,4-Dichlorobenzene	ND		ug/kg	6600	1100	10
3,3'-Dichlorobenzidine	ND		ug/kg	6600	1800	10
2,4-Dinitrotoluene	ND		ug/kg	6600	1300	10
2,6-Dinitrotoluene	ND		ug/kg	6600	1100	10
Fluoranthene	3200	J	ug/kg	3900	760	10
4-Chlorophenyl phenyl ether	ND		ug/kg	6600	700	10
4-Bromophenyl phenyl ether	ND		ug/kg	6600	1000	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	7900	1100	10
Bis(2-chloroethoxy)methane	ND		ug/kg	7100	660	10
Hexachlorobutadiene	ND		ug/kg	6600	960	10
Hexachlorocyclopentadiene	ND		ug/kg	19000	6000	10
Hexachloroethane	ND		ug/kg	5300	1100	10
Isophorone	ND		ug/kg	5900	850	10
Naphthalene	1000	J	ug/kg	6600	800	10
Nitrobenzene	ND		ug/kg	5900	970	10
NDPA/DPA	3500	J	ug/kg	5300	750	10
n-Nitrosodi-n-propylamine	ND		ug/kg	6600	1000	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	6600	2300	10
Butyl benzyl phthalate	ND		ug/kg	6600	1600	10
Di-n-butylphthalate	ND		ug/kg	6600	1200	10
Di-n-octylphthalate	ND		ug/kg	6600	2200	10

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10 D Date Collected: 05/18/21 13:30

Client ID: 8-B1 (14-15) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	6600	610	10
Dimethyl phthalate	ND		ug/kg	6600	1400	10
Benzo(a)anthracene	1600	J	ug/kg	3900	740	10
Benzo(a)pyrene	1600	J	ug/kg	5300	1600	10
Benzo(b)fluoranthene	2100	J	ug/kg	3900	1100	10
Benzo(k)fluoranthene	ND		ug/kg	3900	1000	10
Chrysene	1500	J	ug/kg	3900	680	10
Acenaphthylene	ND		ug/kg	5300	1000	10
Anthracene	ND		ug/kg	3900	1300	10
Benzo(ghi)perylene	1100	J	ug/kg	5300	770	10
Fluorene	ND		ug/kg	6600	640	10
Phenanthrene	2200	J	ug/kg	3900	800	10
Dibenzo(a,h)anthracene	ND		ug/kg	3900	760	10
Indeno(1,2,3-cd)pyrene	1200	J	ug/kg	5300	920	10
Pyrene	3000	J	ug/kg	3900	650	10
Biphenyl	ND		ug/kg	15000	1500	10
4-Chloroaniline	2600	J	ug/kg	6600	1200	10
2-Nitroaniline	ND		ug/kg	6600	1300	10
3-Nitroaniline	ND		ug/kg	6600	1200	10
4-Nitroaniline	ND		ug/kg	6600	2700	10
Dibenzofuran	ND		ug/kg	6600	620	10
2-Methylnaphthalene	ND		ug/kg	7900	800	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	6600	690	10
Acetophenone	ND		ug/kg	6600	810	10
2,4,6-Trichlorophenol	ND		ug/kg	3900	1200	10
p-Chloro-m-cresol	ND		ug/kg	6600	980	10
2-Chlorophenol	ND		ug/kg	6600	780	10
2,4-Dichlorophenol	ND		ug/kg	5900	1000	10
2,4-Dimethylphenol	ND		ug/kg	6600	2200	10
2-Nitrophenol	ND		ug/kg	14000	2500	10
4-Nitrophenol	ND		ug/kg	9200	2700	10
2,4-Dinitrophenol	ND		ug/kg	32000	3100	10
4,6-Dinitro-o-cresol	ND		ug/kg	17000	3200	10
Pentachlorophenol	ND		ug/kg	5300	1400	10
Phenol	ND		ug/kg	6600	990	10
2-Methylphenol	ND		ug/kg	6600	1000	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	9500	1000	10

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10 D Date Collected: 05/18/21 13:30

Client ID: 8-B1 (14-15) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	6600	1300	10
Benzoic Acid	ND		ug/kg	21000	6700	10
Benzyl Alcohol	ND		ug/kg	6600	2000	10
Carbazole	ND		ug/kg	6600	640	10
1,4-Dioxane	ND		ug/kg	990	300	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	50		30-120
2,4,6-Tribromophenol	34		10-136
4-Terphenyl-d14	53		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-11
Client ID: 10-B4 (5-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/18/21 14:00
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 04:12
Analyst: SZ
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 19:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	470	61.	1
1,2,4-Trichlorobenzene	ND		ug/kg	590	67.	1
Hexachlorobenzene	ND		ug/kg	350	66.	1
Bis(2-chloroethyl)ether	ND		ug/kg	530	80.	1
2-Chloronaphthalene	ND		ug/kg	590	58.	1
1,2-Dichlorobenzene	ND		ug/kg	590	100	1
1,3-Dichlorobenzene	ND		ug/kg	590	100	1
1,4-Dichlorobenzene	ND		ug/kg	590	100	1
3,3'-Dichlorobenzidine	ND		ug/kg	590	160	1
2,4-Dinitrotoluene	ND		ug/kg	590	120	1
2,6-Dinitrotoluene	ND		ug/kg	590	100	1
Fluoranthene	210	J	ug/kg	350	68.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	590	63.	1
4-Bromophenyl phenyl ether	ND		ug/kg	590	90.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	710	100	1
Bis(2-chloroethoxy)methane	ND		ug/kg	640	59.	1
Hexachlorobutadiene	ND		ug/kg	590	86.	1
Hexachlorocyclopentadiene	ND		ug/kg	1700	530	1
Hexachloroethane	ND		ug/kg	470	95.	1
Isophorone	ND		ug/kg	530	76.	1
Naphthalene	ND		ug/kg	590	72.	1
Nitrobenzene	ND		ug/kg	530	87.	1
NDPA/DPA	ND		ug/kg	470	67.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	590	91.	1
Bis(2-ethylhexyl)phthalate	770		ug/kg	590	200	1
Butyl benzyl phthalate	ND		ug/kg	590	150	1
Di-n-butylphthalate	150	J	ug/kg	590	110	1
Di-n-octylphthalate	ND		ug/kg	590	200	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-11 Date Collected: 05/18/21 14:00

Client ID: 10-B4 (5-5.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	590	54.	1
Dimethyl phthalate	ND		ug/kg	590	120	1
Benzo(a)anthracene	130	J	ug/kg	350	66.	1
Benzo(a)pyrene	ND		ug/kg	470	140	1
Benzo(b)fluoranthene	160	J	ug/kg	350	99.	1
Benzo(k)fluoranthene	ND		ug/kg	350	94.	1
Chrysene	120	J	ug/kg	350	61.	1
Acenaphthylene	ND		ug/kg	470	91.	1
Anthracene	ND		ug/kg	350	110	1
Benzo(ghi)perylene	90	J	ug/kg	470	69.	1
Fluorene	ND		ug/kg	590	57.	1
Phenanthrene	170	J	ug/kg	350	72.	1
Dibenzo(a,h)anthracene	ND		ug/kg	350	68.	1
Indeno(1,2,3-cd)pyrene	88	J	ug/kg	470	82.	1
Pyrene	240	J	ug/kg	350	58.	1
Biphenyl	ND		ug/kg	1300	140	1
4-Chloroaniline	ND		ug/kg	590	110	1
2-Nitroaniline	ND		ug/kg	590	110	1
3-Nitroaniline	ND		ug/kg	590	110	1
4-Nitroaniline	ND		ug/kg	590	240	1
Dibenzofuran	ND		ug/kg	590	56.	1
2-Methylnaphthalene	ND		ug/kg	710	71.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	590	62.	1
Acetophenone	ND		ug/kg	590	73.	1
2,4,6-Trichlorophenol	ND		ug/kg	350	110	1
p-Chloro-m-cresol	ND		ug/kg	590	88.	1
2-Chlorophenol	ND		ug/kg	590	70.	1
2,4-Dichlorophenol	ND		ug/kg	530	95.	1
2,4-Dimethylphenol	ND		ug/kg	590	190	1
2-Nitrophenol	ND		ug/kg	1300	220	1
4-Nitrophenol	ND		ug/kg	820	240	1
2,4-Dinitrophenol	ND		ug/kg	2800	270	1
4,6-Dinitro-o-cresol	ND		ug/kg	1500	280	1
Pentachlorophenol	ND		ug/kg	470	130	1
Phenol	ND		ug/kg	590	89.	1
2-Methylphenol	ND		ug/kg	590	91.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	850	92.	1

Project Name: AVANT GARDNER **Lab Number:** L2126281

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-11 Date Collected: 05/18/21 14:00

Client ID: 10-B4 (5-5.5) Date Received: 05/19/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	590	110	1
Benzoic Acid	ND		ug/kg	1900	600	1
Benzyl Alcohol	ND		ug/kg	590	180	1
Carbazole	ND		ug/kg	590	57.	1
1,4-Dioxane	ND		ug/kg	88	27.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	77		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/30/21 13:14
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 05/29/21 21:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08-11 Batch: WG1505424-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	28.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	57.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	31.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/30/21 13:14
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 05/29/21 21:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08-11 Batch: WG1505424-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/30/21 13:14
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 05/29/21 21:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08-11 Batch: WG1505424-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	79		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/21 09:58
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1505496-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	29.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	25.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/21 09:58
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1505496-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	32.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/21 09:58
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/30/21 10:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1505496-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	78.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	96		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	103		23-120
2-Fluorobiphenyl	107		30-120
2,4,6-Tribromophenol	101		10-136
4-Terphenyl-d14	119		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-11 Batch: WG1505424-2 WG1505424-3								
Acenaphthene	77		78		31-137	1		50
1,2,4-Trichlorobenzene	65		73		38-107	12		50
Hexachlorobenzene	66		72		40-140	9		50
Bis(2-chloroethyl)ether	67		75		40-140	11		50
2-Chloronaphthalene	67		75		40-140	11		50
1,2-Dichlorobenzene	64		72		40-140	12		50
1,3-Dichlorobenzene	65		72		40-140	10		50
1,4-Dichlorobenzene	64		72		28-104	12		50
3,3'-Dichlorobenzidine	62		65		40-140	5		50
2,4-Dinitrotoluene	76		82		40-132	8		50
2,6-Dinitrotoluene	82		91		40-140	10		50
Fluoranthene	72		78		40-140	8		50
4-Chlorophenyl phenyl ether	69		76		40-140	10		50
4-Bromophenyl phenyl ether	68		76		40-140	11		50
Bis(2-chloroisopropyl)ether	67		75		40-140	11		50
Bis(2-chloroethoxy)methane	66		76		40-117	14		50
Hexachlorobutadiene	63		69		40-140	9		50
Hexachlorocyclopentadiene	78		87		40-140	11		50
Hexachloroethane	67		74		40-140	10		50
Isophorone	62		69		40-140	11		50
Naphthalene	66		73		40-140	10		50
Nitrobenzene	67		78		40-140	15		50
NDPA/DPA	74		79		36-157	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-11 Batch: WG1505424-2 WG1505424-3								
n-Nitrosodi-n-propylamine	65		72		32-121	10		50
Bis(2-ethylhexyl)phthalate	77		82		40-140	6		50
Butyl benzyl phthalate	85		90		40-140	6		50
Di-n-butylphthalate	74		79		40-140	7		50
Di-n-octylphthalate	79		85		40-140	7		50
Diethyl phthalate	71		77		40-140	8		50
Dimethyl phthalate	71		77		40-140	8		50
Benzo(a)anthracene	68		73		40-140	7		50
Benzo(a)pyrene	70		75		40-140	7		50
Benzo(b)fluoranthene	70		75		40-140	7		50
Benzo(k)fluoranthene	68		75		40-140	10		50
Chrysene	68		73		40-140	7		50
Acenaphthylene	66		72		40-140	9		50
Anthracene	72		77		40-140	7		50
Benzo(ghi)perylene	69		75		40-140	8		50
Fluorene	71		78		40-140	9		50
Phenanthrene	71		76		40-140	7		50
Dibenzo(a,h)anthracene	69		74		40-140	7		50
Indeno(1,2,3-cd)pyrene	70		76		40-140	8		50
Pyrene	72		77		35-142	7		50
Biphenyl	70		78		37-127	11		50
4-Chloroaniline	56		60		40-140	7		50
2-Nitroaniline	87		94		47-134	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-11 Batch: WG1505424-2 WG1505424-3								
3-Nitroaniline	74		81		26-129	9		50
4-Nitroaniline	82		89		41-125	8		50
Dibenzofuran	68		74		40-140	8		50
2-Methylnaphthalene	68		75		40-140	10		50
1,2,4,5-Tetrachlorobenzene	66		72		40-117	9		50
Acetophenone	65		72		14-144	10		50
2,4,6-Trichlorophenol	75		81		30-130	8		50
p-Chloro-m-cresol	73		80		26-103	9		50
2-Chlorophenol	74		82		25-102	10		50
2,4-Dichlorophenol	76		82		30-130	8		50
2,4-Dimethylphenol	71		78		30-130	9		50
2-Nitrophenol	98		108		30-130	10		50
4-Nitrophenol	77		83		11-114	8		50
2,4-Dinitrophenol	100		111		4-130	10		50
4,6-Dinitro-o-cresol	96		104		10-130	8		50
Pentachlorophenol	69		76		17-109	10		50
Phenol	70		79		26-90	12		50
2-Methylphenol	76		84		30-130.	10		50
3-Methylphenol/4-Methylphenol	76		83		30-130	9		50
2,4,5-Trichlorophenol	77		85		30-130	10		50
Benzoic Acid	62		75		10-110	19		50
Benzyl Alcohol	68		75		40-140	10		50
Carbazole	71		77		54-128	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-11 Batch: WG1505424-2 WG1505424-3								
1,4-Dioxane	48		54		40-140	12		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		80		25-120
Phenol-d6	70		78		10-120
Nitrobenzene-d5	67		77		23-120
2-Fluorobiphenyl	64		73		30-120
2,4,6-Tribromophenol	72		77		10-136
4-Terphenyl-d14	71		75		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1505496-2 WG1505496-3								
Acenaphthene	117		120		31-137	3		50
1,2,4-Trichlorobenzene	107		**108**	Q	38-107	1		50
Hexachlorobenzene	116		116		40-140	0		50
Bis(2-chloroethyl)ether	108		108		40-140	0		50
2-Chloronaphthalene	116		117		40-140	1		50
1,2-Dichlorobenzene	104		104		40-140	0		50
1,3-Dichlorobenzene	100		102		40-140	2		50
1,4-Dichlorobenzene	100		103		28-104	3		50
3,3'-Dichlorobenzidine	97		100		40-140	3		50
2,4-Dinitrotoluene	124		125		40-132	1		50
2,6-Dinitrotoluene	129		126		40-140	2		50
Fluoranthene	126		127		40-140	1		50
4-Chlorophenyl phenyl ether	121		121		40-140	0		50
4-Bromophenyl phenyl ether	124		124		40-140	0		50
Bis(2-chloroisopropyl)ether	95		95		40-140	0		50
Bis(2-chloroethoxy)methane	111		108		40-117	3		50
Hexachlorobutadiene	115		115		40-140	0		50
Hexachlorocyclopentadiene	127		127		40-140	0		50
Hexachloroethane	102		107		40-140	5		50
Isophorone	109		110		40-140	1		50
Naphthalene	111		111		40-140	0		50
Nitrobenzene	117		117		40-140	0		50
NDPA/DPA	124		123		36-157	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1505496-2 WG1505496-3								
n-Nitrosodi-n-propylamine	116		114		32-121	2		50
Bis(2-ethylhexyl)phthalate	139		**141**	Q	40-140	1		50
Butyl benzyl phthalate	**143**	Q	140		40-140	2		50
Di-n-butylphthalate	138		135		40-140	2		50
Di-n-octylphthalate	137		139		40-140	1		50
Diethyl phthalate	122		124		40-140	2		50
Dimethyl phthalate	129		128		40-140	1		50
Benzo(a)anthracene	118		123		40-140	4		50
Benzo(a)pyrene	129		132		40-140	2		50
Benzo(b)fluoranthene	126		128		40-140	2		50
Benzo(k)fluoranthene	122		125		40-140	2		50
Chrysene	118		121		40-140	3		50
Acenaphthylene	116		114		40-140	2		50
Anthracene	122		124		40-140	2		50
Benzo(ghi)perylene	120		124		40-140	3		50
Fluorene	118		121		40-140	3		50
Phenanthrene	118		119		40-140	1		50
Dibenzo(a,h)anthracene	127		133		40-140	5		50
Indeno(1,2,3-cd)pyrene	129		132		40-140	2		50
Pyrene	123		123		35-142	0		50
Biphenyl	117		114		37-127	3		50
4-Chloroaniline	83		88		40-140	6		50
2-Nitroaniline	125		123		47-134	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1505496-2 WG1505496-3								
3-Nitroaniline	92		97		26-129	5		50
4-Nitroaniline	109		110		41-125	1		50
Dibenzofuran	117		117		40-140	0		50
2-Methylnaphthalene	116		114		40-140	2		50
1,2,4,5-Tetrachlorobenzene	113		114		40-117	1		50
Acetophenone	106		107		14-144	1		50
2,4,6-Trichlorophenol	122		122		30-130	0		50
p-Chloro-m-cresol	**126**	Q	**124**	Q	26-103	2		50
2-Chlorophenol	**110**	Q	**112**	Q	25-102	2		50
2,4-Dichlorophenol	123		122		30-130	1		50
2,4-Dimethylphenol	123		122		30-130	1		50
2-Nitrophenol	120		119		30-130	1		50
4-Nitrophenol	113		**116**	Q	11-114	3		50
2,4-Dinitrophenol	127		122		4-130	4		50
4,6-Dinitro-o-cresol	**136**	Q	**134**	Q	10-130	1		50
Pentachlorophenol	**120**	Q	**122**	Q	17-109	2		50
Phenol	**115**	Q	**117**	Q	26-90	2		50
2-Methylphenol	115		116		30-130.	1		50
3-Methylphenol/4-Methylphenol	126		125		30-130	1		50
2,4,5-Trichlorophenol	128		125		30-130	2		50
Benzoic Acid	96		96		10-110	0		50
Benzyl Alcohol	114		112		40-140	2		50
Carbazole	119		120		54-128	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1505496-2 WG1505496-3								
1,4-Dioxane	71		71		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	110		112		25-120
Phenol-d6	103		103		10-120
Nitrobenzene-d5	113		111		23-120
2-Fluorobiphenyl	**121**	Q	117		30-120
2,4,6-Tribromophenol	118		116		10-136
4-Terphenyl-d14	**135**	Q	**133**	Q	18-120

METALS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10
Client ID: 8-B1 (14-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/18/21 13:30
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3640		mg/kg	11.1	3.00	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Antimony, Total	9.73		mg/kg	5.56	0.422	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Arsenic, Total	91.8		mg/kg	1.11	0.231	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Barium, Total	97.9		mg/kg	1.11	0.193	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Beryllium, Total	0.211	J	mg/kg	0.556	0.037	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Cadmium, Total	1.70		mg/kg	1.11	0.109	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Calcium, Total	7120		mg/kg	11.1	3.89	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Chromium, Total	44.0		mg/kg	1.11	0.107	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Cobalt, Total	6.18		mg/kg	2.22	0.184	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Copper, Total	18000		mg/kg	11.1	2.87	20	05/27/21 22:30	06/01/21 16:46	EPA 3050B	1,6010D	SV
Iron, Total	24100		mg/kg	5.56	1.00	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Lead, Total	480		mg/kg	5.56	0.298	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Magnesium, Total	1680		mg/kg	11.1	1.71	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Manganese, Total	370		mg/kg	1.11	0.177	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Mercury, Total	2.24		mg/kg	0.097	0.063	1	05/27/21 23:03	06/01/21 20:02	EPA 7471B	1,7471B	OU
Nickel, Total	30.3		mg/kg	2.78	0.269	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Potassium, Total	587		mg/kg	278	16.0	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Selenium, Total	3.71		mg/kg	2.22	0.287	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Silver, Total	1.01	J	mg/kg	1.11	0.314	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Sodium, Total	270		mg/kg	222	3.50	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	2.22	0.350	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Vanadium, Total	20.4		mg/kg	1.11	0.226	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV
Zinc, Total	547		mg/kg	5.56	0.326	2	05/27/21 22:30	06/01/21 14:33	EPA 3050B	1,6010D	SV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 10 Batch: WG1504136-1										
Aluminum, Total	1.70	J	mg/kg	4.00	1.08	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Arsenic, Total	0.108	J	mg/kg	0.400	0.083	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Barium, Total	ND		mg/kg	0.400	0.070	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Copper, Total	ND		mg/kg	0.400	0.103	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Iron, Total	ND		mg/kg	2.00	0.361	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Lead, Total	ND		mg/kg	2.00	0.107	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Potassium, Total	ND		mg/kg	100	5.76	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Silver, Total	ND		mg/kg	0.400	0.113	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Sodium, Total	ND		mg/kg	80.0	1.26	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/27/21 22:30	06/01/21 14:09	1,6010D	SV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 10 Batch: WG1504138-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/27/21 23:03	06/01/21 19:55	1,7471B	OU

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 Batch: WG1504136-2 SRM Lot Number: D109-540								
Aluminum, Total	66		-		50-150	-		
Antimony, Total	119		-		19-250	-		
Arsenic, Total	117		-		70-130	-		
Barium, Total	103		-		75-125	-		
Beryllium, Total	107		-		75-125	-		
Cadmium, Total	110		-		75-125	-		
Calcium, Total	99		-		73-128	-		
Chromium, Total	110		-		70-130	-		
Cobalt, Total	108		-		75-125	-		
Copper, Total	112		-		75-125	-		
Iron, Total	97		-		35-165	-		
Lead, Total	112		-		72-128	-		
Magnesium, Total	88		-		62-138	-		
Manganese, Total	108		-		74-126	-		
Nickel, Total	108		-		70-130	-		
Potassium, Total	87		-		59-141	-		
Selenium, Total	117		-		68-132	-		
Silver, Total	117		-		68-131	-		
Sodium, Total	96		-		35-165	-		
Thallium, Total	110		-		68-131	-		
Vanadium, Total	104		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 Batch: WG1504136-2 SRM Lot Number: D109-540					
Zinc, Total	112	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 10 Batch: WG1504138-2 SRM Lot Number: D109-540					
Mercury, Total	88	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1504136-3 QC Sample: L2126281-10 Client ID: 8-B1 (14-15)												
Aluminum, Total	3640	217	3790	**69**	Q	-	-		75-125	-		20
Antimony, Total	9.73	54.3	56.6	86		-	-		75-125	-		20
Arsenic, Total	91.8	13	79.7	**0**	Q	-	-		75-125	-		20
Barium, Total	97.9	217	201	**47**	Q	-	-		75-125	-		20
Beryllium, Total	0.211J	5.43	5.82	107		-	-		75-125	-		20
Cadmium, Total	1.70	5.54	7.24	100		-	-		75-125	-		20
Calcium, Total	7120	1090	6120	**0**	Q	-	-		75-125	-		20
Chromium, Total	44.0	21.7	45.8	**8**	Q	-	-		75-125	-		20
Cobalt, Total	6.18	54.3	62.6	104		-	-		75-125	-		20
Copper, Total	18000	27.2	14200	**0**	Q	-	-		75-125	-		20
Iron, Total	24100	109	25600	**1380**	Q	-	-		75-125	-		20
Lead, Total	480	55.4	417	**0**	Q	-	-		75-125	-		20
Magnesium, Total	1680	1090	2140	**42**	Q	-	-		75-125	-		20
Manganese, Total	370	54.3	466	**177**	Q	-	-		75-125	-		20
Nickel, Total	30.3	54.3	78.0	88		-	-		75-125	-		20
Potassium, Total	587	1090	1610	94		-	-		75-125	-		20
Selenium, Total	3.71	13	17.4	105		-	-		75-125	-		20
Silver, Total	1.01J	32.6	34.4	106		-	-		75-125	-		20
Sodium, Total	270	1090	1320	97		-	-		75-125	-		20
Thallium, Total	ND	13	5.53	**42**	Q	-	-		75-125	-		20
Vanadium, Total	20.4	54.3	71.5	94		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1504136-3 QC Sample: L2126281-10 Client ID: 8-B1 (14-15)										
Zinc, Total	547	54.3	446	**0**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1504138-3 QC Sample: L2126281-10 Client ID: 8-B1 (14-15)										
Mercury, Total	2.24	0.199	2.87	**316**	Q	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1504136-4 QC Sample: L2126281-10 Client ID: 8-B1 (14-15)						
Aluminum, Total	3640	2750	mg/kg	**28**	Q	20
Antimony, Total	9.73	11.3	mg/kg	15		20
Arsenic, Total	91.8	49.6	mg/kg	**60**	Q	20
Barium, Total	97.9	62.6	mg/kg	**44**	Q	20
Beryllium, Total	0.211J	0.118J	mg/kg	NC		20
Cadmium, Total	1.70	1.16	mg/kg	**38**	Q	20
Calcium, Total	7120	3890	mg/kg	**59**	Q	20
Chromium, Total	44.0	19.0	mg/kg	**79**	Q	20
Cobalt, Total	6.18	3.81	mg/kg	**47**	Q	20
Iron, Total	24100	18200	mg/kg	**28**	Q	20
Lead, Total	480	363	mg/kg	**28**	Q	20
Magnesium, Total	1680	1020	mg/kg	**49**	Q	20
Manganese, Total	370	204	mg/kg	**58**	Q	20
Nickel, Total	30.3	13.7	mg/kg	**75**	Q	20
Potassium, Total	587	501	mg/kg	16		20
Selenium, Total	3.71	1.92J	mg/kg	NC		20
Silver, Total	1.01J	0.481J	mg/kg	NC		20
Sodium, Total	270	213J	mg/kg	NC		20
Thallium, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1504136-4 QC Sample: L2126281-10 Client ID: 8-B1 (14-15)						
Vanadium, Total	20.4	11.7	mg/kg	**54**	Q	20
Zinc, Total	547	357	mg/kg	**42**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1504136-4 QC Sample: L2126281-10 Client ID: 8-B1 (14-15)						
Copper, Total	18000	21500	mg/kg	18		20
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1504138-4 QC Sample: L2126281-10 Client ID: 8-B1 (14-15)						
Mercury, Total	2.24	3.08	mg/kg	**32**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-01
Client ID: 2-B2 (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 08:15
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-02
Client ID: 1-B2 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 08:30
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-03
Client ID: 4-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 09:00
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-04
Client ID: 5-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 09:45
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.5		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-05
Client ID: 10-B5 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 10:00
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.2		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-06
Client ID: 6-B1 (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 10:30
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.2		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-07
Client ID: 7-B4 (6-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 11:00
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.2		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-08
Client ID: 10-B3 (7-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 12:45
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.2		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-09
Client ID: 8-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 13:15
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-10
Client ID: 8-B1 (14-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 13:30
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.8		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-11
Client ID: 10-B4 (5-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 14:00
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.1		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126281
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126281-12
Client ID: 10-B4 (18-18.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/18/21 15:00
Date Received: 05/19/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	25.5		%	0.100	NA	1	-	05/20/21 09:15	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126281

Report Date: 06/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-12 QC Batch ID: WG1501382-1 QC Sample: L2126064-06 Client ID: DUP Sample						
Solids, Total	77.0	77.9	%	1		20

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126281-01A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-01B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-01C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-01D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-01E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-01X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-01Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-01Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-02A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-02B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-02C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-02D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-02E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-02X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-02Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-02Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-03A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-03B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-03C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-03D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-03E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-03X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-03Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126281-03Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-04A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-04B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-04C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-04D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-04E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-04X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-04Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-04Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-05A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2126281-05B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2126281-05C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2126281-05D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-05E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-05X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2126281-05Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2126281-05Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2126281-06A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-06B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-06C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-06D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-06E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-06X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-06Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-06Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-07A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-07B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-07C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126281-07D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-07E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-07X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-07Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-07Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-08A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-08B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-08C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-08D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-08E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-08X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-08Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-08Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-09A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-09B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-09C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-09D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-09E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-09X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-09Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-09Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:40	NYTCL-8260HLW(14)
L2126281-10A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-10B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-10C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-10D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-10E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126281
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126281-10F	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-10X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-10Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:41	NYTCL-8260HLW(14)
L2126281-10Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:41	NYTCL-8260HLW(14)
L2126281-11A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-11B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-11C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-11D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-11E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14)
L2126281-11X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-11Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:41	NYTCL-8260HLW(14)
L2126281-11Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:41	NYTCL-8260HLW(14)
L2126281-12A	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-12B	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-12C	5 gram Encore Sampler	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-12D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2126281-12X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2126281-12Y	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:41	NYTCL-8260HLW(14)
L2126281-12Z	Vial Water preserved split	A	NA		3.5	Y	Absent	20-MAY-21 07:41	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	AVANT GARDNER	**Lab Number:**	L2126281
Project Number:	17244793	**Report Date:**	06/11/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2126281
Project Number:	17244793	**Report Date:**	06/11/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2126281
Project Number:	17244793	**Report Date:**	06/11/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Project Name:	AVANT GARDNER	**Lab Number:**	L2126281
Project Number:	17244793	**Report Date:**	06/11/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 5/20/21

ALPHA Job #: L2136281

Client Information
Client: PSG (Partner)
Address: 611 Industrial Way W
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLENTE@partnergsi.com

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project #: 17243313
(Use Project name as Project #): [X]
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time
Standard: [X] Due Date:
Rush (only if pre approved): [ ] # of Days:

Deliverables
- [ ] ASP-A
- [ ] ASP-B
- [X] EQuIS (1 File)
- [X] EQuIS (4 File)
- [ ] Other

Regulatory Requirement
- [X] NY TOGS
- [ ] NY Part 375
- [X] AWQ Standards
- [X] NY CP-51
- [X] NY Restricted Use
- [ ] Other
- [X] NY Unrestricted Use
- [ ] NYC Sewer Discharge

Billing Information
- [X] Same as Client Info

PO #: 17243313

Disposal Site Information
Please identify below location of applicable disposal facilities.

Disposal Facility:
- [ ] NJ
- [ ] NY
- [ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

8-B1 (14-15) had a purple unknown free product.

Please specify Metals or TAL.

TAL

ANALYSIS

Sample Filtration
- [ ] Done
- [ ] Lab to do

Preservation
- [ ] Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs (8260)	SVOCs (8270)	TAL metals	Total Bottle	Sample Specific Comments
216281-01	2-B2 (9.5-10)	5-18	815	S	AH	X	X			
-02	1-B2 (7.5-8.5)	5-18	830	S	AH	X	X			
-03	4-B2 (6.5-7)	5-18	900	S	AH	X	X			
-04	5-B1 (8.5-9)	5-18	945	S	AH	X	X			
-05	10-B5 (6.5-7)	5-18	1000	S	AH	X	X			
-06	6-B1 (5.5-6)	5-18	1030	S	AH	X	X			
-07	7-B4 (6-6.5)	5-18	1100	S	AH	X	X			
-08	10-B3 (7-8)	5-18	1245	S	AH	X	X			
-09	8-B1 (7.5-8)	5-18	1315	S	AH	X	X			
-10	8-B1 (14-15)	5-18	1330	S	AH	X	X	X		unknown product (oil-like)

Container Type: E A A
Preservative: A A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5-18 1600		5/19/21 12:00
	5/19/21 1656		5/19/21 0000
	5/20/21 0030		5/20/21 00:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 5/20/21

ALPHA Job #: L2126281

Client Information
Client: PSG (Partner)
Address: 611 Industrial Way W
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLENT@partnersinc.com

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project #: 17243313
(Use Project name as Project #): X
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved): ☐
Due Date:
# of Days:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables
☐ ASP-A ☐ ASP-B
☑ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other

Regulatory Requirement
☒ NY TOGS ☐ NY Part 375
☒ AWQ Standards ☒ NY CP-51
☒ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO # 17243313

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC (8260)	SVOC (8270)	Sample Specific Comments	Total Bottle
26281-11	10-B4(5-5.5)	5-18	1400	S	AH	X	X		
-12	10-B4(18-18.5)	5-18	1500	S	AH	X			

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	E	A
Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	5/18 1600		5/18/21 12:00
	5/19/21 18:55		5/19/21 20:00
	5/20/21 0035		5/20/21 00:17

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

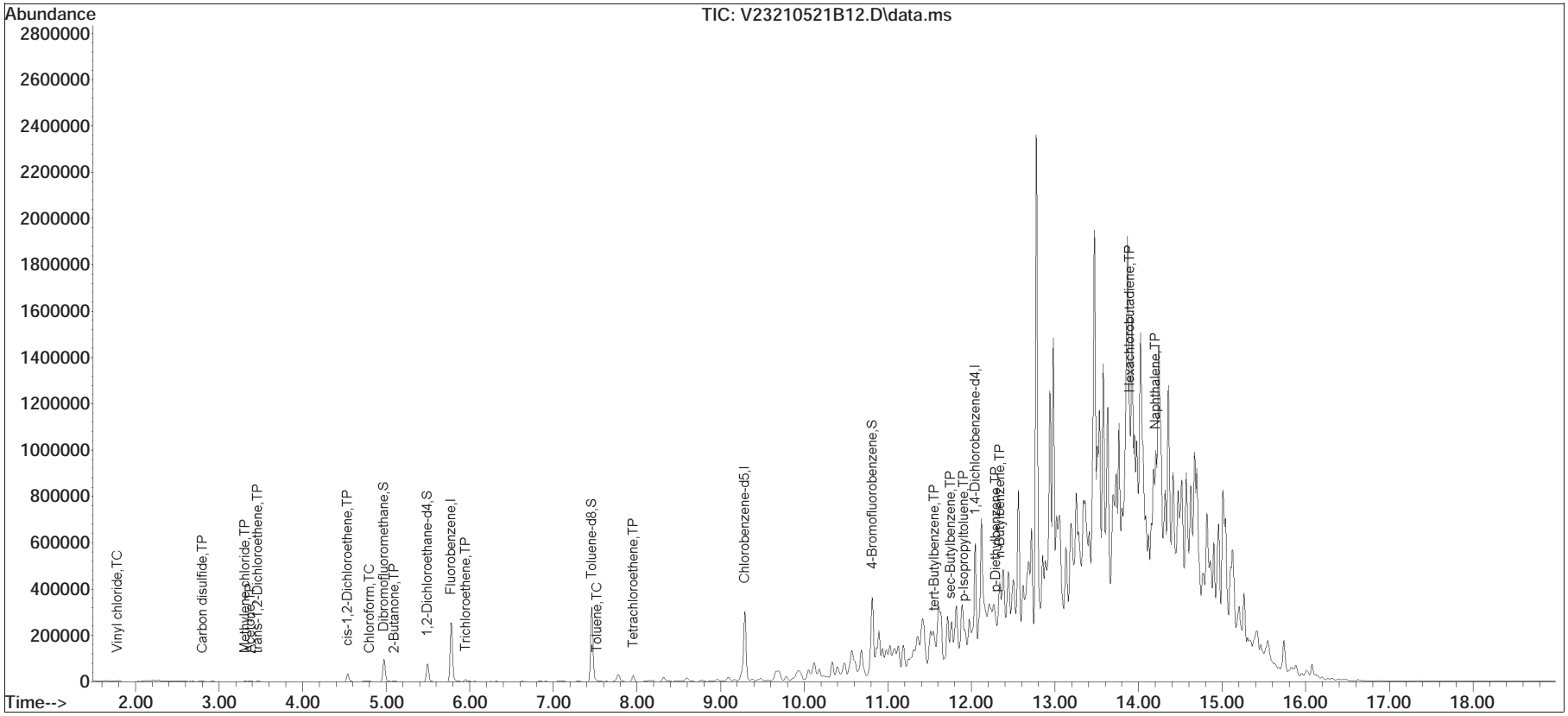
Form No: 01-25 HC (rev. 30-Sept-2013)

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA123\2021\210521B\
Data File : V23210521B12.D
Acq On : 21 May 2021 07:04 pm
Operator : VOA123:NLK
Sample : L2126281-07,31H,5.42,5,0.100,,X,PRI
Misc : WG1502603,ICAL17933
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 14:03:53 2021
Quant Method : I:\VOLATILES\VOA123\2021\210521B\V123_210512N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 13 08:11:37 2021
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox10521B\V23210521B01.D•



ANALYTICAL REPORT

Lab Number:	L2126605
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER
Project Number:	17244793
Report Date:	06/11/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2126605-01	FIELD BLANK	WATER	140 STEWART AVE., BROOKLYN, NY	05/19/21 14:00	05/20/21
L2126605-02	10-B1 (8.5-9)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 08:00	05/20/21
L2126605-03	10-B1 (22-22.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 08:40	05/20/21
L2126605-04	DUP	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 08:00	05/20/21
L2126605-05	7-B2 (6.5-7)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 09:45	05/20/21
L2126605-06	7-B2 (14-14.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 10:00	05/20/21
L2126605-07	7-B1 (9-10)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 11:15	05/20/21
L2126605-08	7-B1 (27-27.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 11:50	05/20/21
L2126605-09	7-B3 (10.5-11.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 13:20	05/20/21
L2126605-10	3-B1 (7.5-8)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 14:00	05/20/21
L2126605-11	3-B1 (17.5-18)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/19/21 14:45	05/20/21

Project Name:	AVANT GARDNER	**Lab Number:**	L2126605
Project Number:	17244793	**Report Date:**	06/11/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Case Narrative (continued)

Report Revision

June 11, 2021: The project number has been amended.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2126605-09: The sample was analyzed as a High Level Methanol in order to quantitate results within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to sample non-homogeneity.

Semivolatile Organics

The WG1505612-6/-7 MS/MSD recoveries, performed on L2126605-02, are below the acceptance criteria for hexachlorocyclopentadiene (MS 0%), 2,4-dinitrophenol (0%/0%), 4,6-dinitro-o-cresol (0%/0%), and benzoic acid (0%/0%) due to the concentrations of these compounds in the MS/MSD falling below the reported detection limits.

Perfluorinated Alkyl Acids by Isotope Dilution

L2126605-01: The analysis could not be performed due to laboratory error (the sample was not spiked with Extracted Internal Standards) and no sample remains for re-extraction.
L2126605-05 and -07: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

Pesticides

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Case Narrative (continued)

L2126605-05: The internal standard (IS) response for 1-bromo-2-nitrobenzene (8277%) was above the acceptance criteria on column A/B; however, the sample was not re-analyzed due to obvious interferences. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (20%) and decachlorobiphenyl (0%) due to interference with the Internal Standard.
L2126605-07: The internal standard (IS) response for 1-bromo-2-nitrobenzene (2142%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (13%) and decachlorobiphenyl (1%) due to interference with the Internal Standard.

Total Metals
L2126605-05, -07, and -10: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 06/11/21

ORGANICS

VOLATILES

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-02
Client ID: 10-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 08:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/21 09:25
Analyst: JC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	1.9	1
1,1-Dichloroethane	0.12	J	ug/kg	0.85	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.85	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.85	0.11	1
Dibromochloromethane	ND		ug/kg	0.85	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.85	0.23	1
Tetrachloroethene	1.8		ug/kg	0.42	0.17	1
Chlorobenzene	ND		ug/kg	0.42	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.59	1
1,2-Dichloroethane	ND		ug/kg	0.85	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	0.14	1
Bromodichloromethane	ND		ug/kg	0.42	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	0.42	0.13	1
1,1-Dichloropropene	ND		ug/kg	0.42	0.14	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	0.14	1
Benzene	0.19	J	ug/kg	0.42	0.14	1
Toluene	ND		ug/kg	0.85	0.46	1
Ethylbenzene	ND		ug/kg	0.85	0.12	1
Chloromethane	ND		ug/kg	3.4	0.79	1
Bromomethane	ND		ug/kg	1.7	0.49	1
Vinyl chloride	ND		ug/kg	0.85	0.28	1
Chloroethane	ND		ug/kg	1.7	0.38	1
1,1-Dichloroethene	ND		ug/kg	0.85	0.20	1
trans-1,2-Dichloroethene	0.38	J	ug/kg	1.3	0.12	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-02 Date Collected: 05/19/21 08:00

Client ID: 10-B1 (8.5-9) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.72		ug/kg	0.42	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.48	1
o-Xylene	ND		ug/kg	0.85	0.25	1
Xylenes, Total	ND		ug/kg	0.85	0.25	1
cis-1,2-Dichloroethene	0.94		ug/kg	0.85	0.15	1
1,2-Dichloroethene, Total	1.3	J	ug/kg	0.85	0.12	1
Dibromomethane	ND		ug/kg	1.7	0.20	1
Styrene	ND		ug/kg	0.85	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.5	0.78	1
Acetone	12		ug/kg	8.5	4.1	1
Carbon disulfide	ND		ug/kg	8.5	3.9	1
2-Butanone	ND		ug/kg	8.5	1.9	1
Vinyl acetate	ND		ug/kg	8.5	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.5	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.5	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.17	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.85	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.42	0.11	1
Bromobenzene	ND		ug/kg	1.7	0.12	1
n-Butylbenzene	ND		ug/kg	0.85	0.14	1
sec-Butylbenzene	ND		ug/kg	0.85	0.12	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.85	1
Hexachlorobutadiene	ND		ug/kg	3.4	0.14	1
Isopropylbenzene	ND		ug/kg	0.85	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.85	0.09	1
Naphthalene	ND		ug/kg	3.4	0.55	1
Acrylonitrile	ND		ug/kg	3.4	0.98	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-02 Date Collected: 05/19/21 08:00

Client ID: 10-B1 (8.5-9) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.85	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.28	1
1,4-Dioxane	ND		ug/kg	68	30.	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.33	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.16	1
Ethyl ether	ND		ug/kg	1.7	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.2	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-03 Date Collected: 05/19/21 08:40
Client ID: 10-B1 (22-22.5) Date Received: 05/20/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/28/21 19:57
Analyst: MKS
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-03 Date Collected: 05/19/21 08:40

Client ID: 10-B1 (22-22.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.66	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-03 Date Collected: 05/19/21 08:40

Client ID: 10-B1 (22-22.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	81	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-04 Date Collected: 05/19/21 08:00
Client ID: DUP Date Received: 05/20/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/28/21 20:23
Analyst: MKS
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-04 Date Collected: 05/19/21 08:00

Client ID: DUP Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	ND		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.66	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-04 Date Collected: 05/19/21 08:00

Client ID: DUP Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	81	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05
Client ID: 7-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 09:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/28/21 20:49
Analyst: MKS
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.8	3.6	1
1,1-Dichloroethane	0.31	J	ug/kg	1.6	0.23	1
Chloroform	ND		ug/kg	2.4	0.22	1
Carbon tetrachloride	ND		ug/kg	1.6	0.36	1
1,2-Dichloropropane	ND		ug/kg	1.6	0.20	1
Dibromochloromethane	ND		ug/kg	1.6	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.42	1
Tetrachloroethene	0.33	J	ug/kg	0.78	0.31	1
Chlorobenzene	ND		ug/kg	0.78	0.20	1
Trichlorofluoromethane	ND		ug/kg	6.3	1.1	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.40	1
1,1,1-Trichloroethane	ND		ug/kg	0.78	0.26	1
Bromodichloromethane	ND		ug/kg	0.78	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.43	1
cis-1,3-Dichloropropene	ND		ug/kg	0.78	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	0.78	0.25	1
1,1-Dichloropropene	ND		ug/kg	0.78	0.25	1
Bromoform	ND		ug/kg	6.3	0.38	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.78	0.26	1
Benzene	ND		ug/kg	0.78	0.26	1
Toluene	ND		ug/kg	1.6	0.85	1
Ethylbenzene	ND		ug/kg	1.6	0.22	1
Chloromethane	ND		ug/kg	6.3	1.5	1
Bromomethane	ND		ug/kg	3.1	0.91	1
Vinyl chloride	1.6		ug/kg	1.6	0.52	1
Chloroethane	ND		ug/kg	3.1	0.71	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	2.4	0.21	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05 Date Collected: 05/19/21 09:45

Client ID: 7-B2 (6.5-7) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.78	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.1	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.1	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	3.1	0.27	1
Methyl tert butyl ether	ND		ug/kg	3.1	0.32	1
p/m-Xylene	ND		ug/kg	3.1	0.88	1
o-Xylene	ND		ug/kg	1.6	0.46	1
Xylenes, Total	ND		ug/kg	1.6	0.46	1
cis-1,2-Dichloroethene	0.84	J	ug/kg	1.6	0.27	1
1,2-Dichloroethene, Total	0.84	J	ug/kg	1.6	0.21	1
Dibromomethane	ND		ug/kg	3.1	0.37	1
Styrene	ND		ug/kg	1.6	0.31	1
Dichlorodifluoromethane	ND		ug/kg	16	1.4	1
Acetone	100		ug/kg	16	7.5	1
Carbon disulfide	ND		ug/kg	16	7.1	1
2-Butanone	28		ug/kg	16	3.5	1
Vinyl acetate	ND		ug/kg	16	3.4	1
4-Methyl-2-pentanone	ND		ug/kg	16	2.0	1
1,2,3-Trichloropropane	ND		ug/kg	3.1	0.20	1
2-Hexanone	ND		ug/kg	16	1.8	1
Bromochloromethane	ND		ug/kg	3.1	0.32	1
2,2-Dichloropropane	ND		ug/kg	3.1	0.32	1
1,2-Dibromoethane	ND		ug/kg	1.6	0.44	1
1,3-Dichloropropane	ND		ug/kg	3.1	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.78	0.21	1
Bromobenzene	ND		ug/kg	3.1	0.23	1
n-Butylbenzene	ND		ug/kg	1.6	0.26	1
sec-Butylbenzene	ND		ug/kg	1.6	0.23	1
tert-Butylbenzene	ND		ug/kg	3.1	0.18	1
o-Chlorotoluene	ND		ug/kg	3.1	0.30	1
p-Chlorotoluene	ND		ug/kg	3.1	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	1.6	1
Hexachlorobutadiene	ND		ug/kg	6.3	0.26	1
Isopropylbenzene	ND		ug/kg	1.6	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.17	1
Naphthalene	ND		ug/kg	6.3	1.0	1
Acrylonitrile	ND		ug/kg	6.3	1.8	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05 Date Collected: 05/19/21 09:45

Client ID: 7-B2 (6.5-7) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.6	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.1	0.50	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.1	0.43	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.1	0.30	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.1	0.52	1
1,4-Dioxane	ND		ug/kg	120	55.	1
p-Diethylbenzene	ND		ug/kg	3.1	0.28	1
p-Ethyltoluene	ND		ug/kg	3.1	0.60	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.1	0.30	1
Ethyl ether	ND		ug/kg	3.1	0.53	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.8	2.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-06 Date Collected: 05/19/21 10:00
Client ID: 7-B2 (14-14.5) Date Received: 05/20/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/21 10:43
Analyst: JC
Percent Solids: 46%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	1100	490	1
1,1-Dichloroethane	ND		ug/kg	210	31.	1
Chloroform	ND		ug/kg	320	30.	1
Carbon tetrachloride	ND		ug/kg	210	49.	1
1,2-Dichloropropane	ND		ug/kg	210	27.	1
Dibromochloromethane	ND		ug/kg	210	30.	1
1,1,2-Trichloroethane	ND		ug/kg	210	57.	1
Tetrachloroethene	ND		ug/kg	110	42.	1
Chlorobenzene	ND		ug/kg	110	27.	1
Trichlorofluoromethane	ND		ug/kg	860	150	1
1,2-Dichloroethane	ND		ug/kg	210	55.	1
1,1,1-Trichloroethane	ND		ug/kg	110	36.	1
Bromodichloromethane	ND		ug/kg	110	23.	1
trans-1,3-Dichloropropene	ND		ug/kg	210	58.	1
cis-1,3-Dichloropropene	ND		ug/kg	110	34.	1
1,3-Dichloropropene, Total	ND		ug/kg	110	34.	1
1,1-Dichloropropene	ND		ug/kg	110	34.	1
Bromoform	ND		ug/kg	860	53.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	110	35.	1
Benzene	ND		ug/kg	110	35.	1
Toluene	160	J	ug/kg	210	120	1
Ethylbenzene	59	J	ug/kg	210	30.	1
Chloromethane	ND		ug/kg	860	200	1
Bromomethane	ND		ug/kg	430	120	1
Vinyl chloride	100	J	ug/kg	210	72.	1
Chloroethane	ND		ug/kg	430	97.	1
1,1-Dichloroethene	ND		ug/kg	210	51.	1
trans-1,2-Dichloroethene	180	J	ug/kg	320	29.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-06 Date Collected: 05/19/21 10:00

Client ID: 7-B2 (14-14.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	85	J	ug/kg	110	29.	1
1,2-Dichlorobenzene	490		ug/kg	430	31.	1
1,3-Dichlorobenzene	ND		ug/kg	430	32.	1
1,4-Dichlorobenzene	ND		ug/kg	430	36.	1
Methyl tert butyl ether	ND		ug/kg	430	43.	1
p/m-Xylene	130	J	ug/kg	430	120	1
o-Xylene	110	J	ug/kg	210	62.	1
Xylenes, Total	240	J	ug/kg	210	62.	1
cis-1,2-Dichloroethene	5000		ug/kg	210	37.	1
1,2-Dichloroethene, Total	5200	J	ug/kg	210	29.	1
Dibromomethane	ND		ug/kg	430	51.	1
Styrene	ND		ug/kg	210	42.	1
Dichlorodifluoromethane	ND		ug/kg	2100	200	1
Acetone	1900	J	ug/kg	2100	1000	1
Carbon disulfide	ND		ug/kg	2100	970	1
2-Butanone	470	J	ug/kg	2100	470	1
Vinyl acetate	ND		ug/kg	2100	460	1
4-Methyl-2-pentanone	ND		ug/kg	2100	270	1
1,2,3-Trichloropropane	ND		ug/kg	430	27.	1
2-Hexanone	ND		ug/kg	2100	250	1
Bromochloromethane	ND		ug/kg	430	44.	1
2,2-Dichloropropane	ND		ug/kg	430	43.	1
1,2-Dibromoethane	ND		ug/kg	210	60.	1
1,3-Dichloropropane	ND		ug/kg	430	36.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	110	28.	1
Bromobenzene	ND		ug/kg	430	31.	1
n-Butylbenzene	ND		ug/kg	210	36.	1
sec-Butylbenzene	ND		ug/kg	210	31.	1
tert-Butylbenzene	ND		ug/kg	430	25.	1
o-Chlorotoluene	84	J	ug/kg	430	41.	1
p-Chlorotoluene	ND		ug/kg	430	23.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	640	210	1
Hexachlorobutadiene	ND		ug/kg	860	36.	1
Isopropylbenzene	48	J	ug/kg	210	23.	1
p-Isopropyltoluene	730		ug/kg	210	23.	1
Naphthalene	52000		ug/kg	860	140	1
Acrylonitrile	ND		ug/kg	860	240	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-06 Date Collected: 05/19/21 10:00

Client ID: 7-B2 (14-14.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	210	36.	1
1,2,3-Trichlorobenzene	ND		ug/kg	430	69.	1
1,2,4-Trichlorobenzene	ND		ug/kg	430	58.	1
1,3,5-Trimethylbenzene	220	J	ug/kg	430	41.	1
1,2,4-Trimethylbenzene	390	J	ug/kg	430	71.	1
1,4-Dioxane	ND		ug/kg	17000	7500	1
p-Diethylbenzene	ND		ug/kg	430	38.	1
p-Ethyltoluene	130	J	ug/kg	430	82.	1
1,2,4,5-Tetramethylbenzene	130	J	ug/kg	430	41.	1
Ethyl ether	ND		ug/kg	430	73.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	1100	300	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 D2
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/30/21 12:13
Analyst: JC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	14000	6600	50
1,1-Dichloroethane	ND		ug/kg	2900	420	50
Chloroform	ND		ug/kg	4400	410	50
Carbon tetrachloride	ND		ug/kg	2900	670	50
1,2-Dichloropropane	ND		ug/kg	2900	360	50
Dibromochloromethane	ND		ug/kg	2900	410	50
1,1,2-Trichloroethane	ND		ug/kg	2900	770	50
Tetrachloroethene	2200000	E	ug/kg	1400	570	50
Chlorobenzene	ND		ug/kg	1400	370	50
Trichlorofluoromethane	ND		ug/kg	12000	2000	50
1,2-Dichloroethane	ND		ug/kg	2900	740	50
1,1,1-Trichloroethane	ND		ug/kg	1400	480	50
Bromodichloromethane	ND		ug/kg	1400	320	50
trans-1,3-Dichloropropene	ND		ug/kg	2900	790	50
cis-1,3-Dichloropropene	ND		ug/kg	1400	460	50
1,3-Dichloropropene, Total	ND		ug/kg	1400	460	50
1,1-Dichloropropene	ND		ug/kg	1400	460	50
Bromoform	ND		ug/kg	12000	710	50
1,1,2,2-Tetrachloroethane	ND		ug/kg	1400	480	50
Benzene	ND		ug/kg	1400	480	50
Toluene	2100	J	ug/kg	2900	1600	50
Ethylbenzene	680	J	ug/kg	2900	410	50
Chloromethane	ND		ug/kg	12000	2700	50
Bromomethane	ND		ug/kg	5800	1700	50
Vinyl chloride	ND		ug/kg	2900	970	50
Chloroethane	ND		ug/kg	5800	1300	50
1,1-Dichloroethene	ND		ug/kg	2900	690	50
trans-1,2-Dichloroethene	ND		ug/kg	4400	400	50

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 D2 Date Collected: 05/19/21 11:15

Client ID: 7-B1 (9-10) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	140000		ug/kg	1400	400	50
1,2-Dichlorobenzene	ND		ug/kg	5800	420	50
1,3-Dichlorobenzene	ND		ug/kg	5800	430	50
1,4-Dichlorobenzene	ND		ug/kg	5800	500	50
Methyl tert butyl ether	ND		ug/kg	5800	580	50
p/m-Xylene	1900	J	ug/kg	5800	1600	50
o-Xylene	ND		ug/kg	2900	840	50
Xylenes, Total	1900	J	ug/kg	2900	840	50
cis-1,2-Dichloroethene	21000		ug/kg	2900	510	50
1,2-Dichloroethene, Total	21000		ug/kg	2900	400	50
Dibromomethane	ND		ug/kg	5800	690	50
Styrene	ND		ug/kg	2900	570	50
Dichlorodifluoromethane	ND		ug/kg	29000	2600	50
Acetone	ND		ug/kg	29000	14000	50
Carbon disulfide	ND		ug/kg	29000	13000	50
2-Butanone	ND		ug/kg	29000	6400	50
Vinyl acetate	ND		ug/kg	29000	6200	50
4-Methyl-2-pentanone	ND		ug/kg	29000	3700	50
1,2,3-Trichloropropane	ND		ug/kg	5800	370	50
2-Hexanone	ND		ug/kg	29000	3400	50
Bromochloromethane	ND		ug/kg	5800	590	50
2,2-Dichloropropane	ND		ug/kg	5800	580	50
1,2-Dibromoethane	ND		ug/kg	2900	810	50
1,3-Dichloropropane	ND		ug/kg	5800	480	50
1,1,1,2-Tetrachloroethane	ND		ug/kg	1400	380	50
Bromobenzene	ND		ug/kg	5800	420	50
n-Butylbenzene	ND		ug/kg	2900	480	50
sec-Butylbenzene	ND		ug/kg	2900	420	50
tert-Butylbenzene	ND		ug/kg	5800	340	50
o-Chlorotoluene	ND		ug/kg	5800	550	50
p-Chlorotoluene	ND		ug/kg	5800	310	50
1,2-Dibromo-3-chloropropane	ND		ug/kg	8700	2900	50
Hexachlorobutadiene	ND		ug/kg	12000	490	50
Isopropylbenzene	ND		ug/kg	2900	320	50
p-Isopropyltoluene	820	J	ug/kg	2900	320	50
Naphthalene	3200	J	ug/kg	12000	1900	50
Acrylonitrile	ND		ug/kg	12000	3300	50

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 D2 Date Collected: 05/19/21 11:15

Client ID: 7-B1 (9-10) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	680	J	ug/kg	2900	500	50
1,2,3-Trichlorobenzene	ND		ug/kg	5800	930	50
1,2,4-Trichlorobenzene	ND		ug/kg	5800	790	50
1,3,5-Trimethylbenzene	1600	J	ug/kg	5800	560	50
1,2,4-Trimethylbenzene	4300	J	ug/kg	5800	970	50
1,4-Dioxane	ND		ug/kg	230000	100000	50
p-Diethylbenzene	ND		ug/kg	5800	510	50
p-Ethyltoluene	3000	J	ug/kg	5800	1100	50
1,2,4,5-Tetramethylbenzene	670	J	ug/kg	5800	550	50
Ethyl ether	ND		ug/kg	5800	990	50
trans-1,4-Dichloro-2-butene	ND		ug/kg	14000	4100	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 D
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/28/21 14:56
Analyst: MKS
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	1700000		ug/kg	5800	2300	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-08 Date Collected: 05/19/21 11:50
Client ID: 7-B1 (27-27.5) Date Received: 05/20/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/28/21 21:15
Analyst: MKS
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	2.3		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	40		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.89	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.6	0.74	1
Vinyl chloride	0.63	J	ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	0.40	J	ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-08 Date Collected: 05/19/21 11:50

Client ID: 7-B1 (27-27.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	2.1		ug/kg	0.64	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	3.1		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	3.1		ug/kg	1.3	0.17	1
Dibromomethane	ND		ug/kg	2.6	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.18	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.24	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.83	1
Acrylonitrile	ND		ug/kg	5.1	1.5	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-08 Date Collected: 05/19/21 11:50

Client ID: 7-B1 (27-27.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.22	1
p-Ethyltoluene	ND		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.24	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09
Client ID: 7-B3 (10.5-11.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 13:20
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/28/21 21:42
Analyst: MKS
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.91	0.13	1
Chloroform	0.13	J	ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.91	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.91	0.11	1
Dibromochloromethane	ND		ug/kg	0.91	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.91	0.24	1
Tetrachloroethene	0.99		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.63	1
1,2-Dichloroethane	ND		ug/kg	0.91	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	0.40	J	ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.91	0.50	1
Ethylbenzene	ND		ug/kg	0.91	0.13	1
Chloromethane	ND		ug/kg	3.6	0.85	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	110		ug/kg	0.91	0.30	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	2.7		ug/kg	0.91	0.22	1
trans-1,2-Dichloroethene	4.9		ug/kg	1.4	0.12	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09 Date Collected: 05/19/21 13:20

Client ID: 7-B3 (10.5-11.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	2.4		ug/kg	0.46	0.12	1
1,2-Dichlorobenzene	0.83	J	ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.91	0.26	1
Xylenes, Total	ND		ug/kg	0.91	0.26	1
cis-1,2-Dichloroethene	1300	E	ug/kg	0.91	0.16	1
1,2-Dichloroethene, Total	12000		ug/kg	1.4	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.91	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.1	0.84	1
Acetone	5.6	J	ug/kg	9.1	4.4	1
Carbon disulfide	ND		ug/kg	9.1	4.2	1
2-Butanone	ND		ug/kg	9.1	2.0	1
Vinyl acetate	ND		ug/kg	9.1	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.1	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.1	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.91	0.25	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.91	0.15	1
sec-Butylbenzene	ND		ug/kg	0.91	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.91	1
Hexachlorobutadiene	ND		ug/kg	3.6	0.15	1
Isopropylbenzene	ND		ug/kg	0.91	0.10	1
p-Isopropyltoluene	0.29	J	ug/kg	0.91	0.10	1
Naphthalene	1.4	J	ug/kg	3.6	0.59	1
Acrylonitrile	ND		ug/kg	3.6	1.0	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09 Date Collected: 05/19/21 13:20

Client ID: 7-B3 (10.5-11.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.91	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	0.27	J	ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	0.32	J	ug/kg	1.8	0.30	1
1,4-Dioxane	ND		ug/kg	73	32.	1
p-Diethylbenzene	0.26	J	ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09
Client ID: 7-B3 (10.5-11.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 13:20
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/21 08:59
Analyst: JC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	280	130	1
1,1-Dichloroethane	ND		ug/kg	56	8.2	1
Chloroform	ND		ug/kg	85	7.9	1
Carbon tetrachloride	ND		ug/kg	56	13.	1
1,2-Dichloropropane	ND		ug/kg	56	7.1	1
Dibromochloromethane	ND		ug/kg	56	7.9	1
1,1,2-Trichloroethane	ND		ug/kg	56	15.	1
Tetrachloroethene	50		ug/kg	28	11.	1
Chlorobenzene	ND		ug/kg	28	7.2	1
Trichlorofluoromethane	ND		ug/kg	230	39.	1
1,2-Dichloroethane	ND		ug/kg	56	14.	1
1,1,1-Trichloroethane	ND		ug/kg	28	9.4	1
Bromodichloromethane	ND		ug/kg	28	6.2	1
trans-1,3-Dichloropropene	ND		ug/kg	56	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	28	8.9	1
1,3-Dichloropropene, Total	ND		ug/kg	28	8.9	1
1,1-Dichloropropene	ND		ug/kg	28	9.0	1
Bromoform	ND		ug/kg	230	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	28	9.4	1
Benzene	ND		ug/kg	28	9.4	1
Toluene	38	J	ug/kg	56	31.	1
Ethylbenzene	ND		ug/kg	56	8.0	1
Chloromethane	ND		ug/kg	230	53.	1
Bromomethane	ND		ug/kg	110	33.	1
Vinyl chloride	570		ug/kg	56	19.	1
Chloroethane	ND		ug/kg	110	26.	1
1,1-Dichloroethene	19	J	ug/kg	56	13.	1
trans-1,2-Dichloroethene	93		ug/kg	85	7.8	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09 Date Collected: 05/19/21 13:20

Client ID: 7-B3 (10.5-11.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	37		ug/kg	28	7.8	1
1,2-Dichlorobenzene	ND		ug/kg	110	8.1	1
1,3-Dichlorobenzene	ND		ug/kg	110	8.4	1
1,4-Dichlorobenzene	ND		ug/kg	110	9.7	1
Methyl tert butyl ether	ND		ug/kg	110	11.	1
p/m-Xylene	ND		ug/kg	110	32.	1
o-Xylene	ND		ug/kg	56	16.	1
Xylenes, Total	ND		ug/kg	56	16.	1
cis-1,2-Dichloroethene	12000		ug/kg	56	9.9	1
1,2-Dichloroethene, Total	12000		ug/kg	56	7.8	1
Dibromomethane	ND		ug/kg	110	13.	1
Styrene	17	J	ug/kg	56	11.	1
Dichlorodifluoromethane	ND		ug/kg	560	52.	1
Acetone	ND		ug/kg	560	270	1
Carbon disulfide	ND		ug/kg	560	260	1
2-Butanone	ND		ug/kg	560	120	1
Vinyl acetate	ND		ug/kg	560	120	1
4-Methyl-2-pentanone	ND		ug/kg	560	72.	1
1,2,3-Trichloropropane	ND		ug/kg	110	7.2	1
2-Hexanone	ND		ug/kg	560	67.	1
Bromochloromethane	ND		ug/kg	110	12.	1
2,2-Dichloropropane	ND		ug/kg	110	11.	1
1,2-Dibromoethane	ND		ug/kg	56	16.	1
1,3-Dichloropropane	ND		ug/kg	110	9.4	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	28	7.5	1
Bromobenzene	ND		ug/kg	110	8.2	1
n-Butylbenzene	ND		ug/kg	56	9.4	1
sec-Butylbenzene	ND		ug/kg	56	8.3	1
tert-Butylbenzene	ND		ug/kg	110	6.7	1
o-Chlorotoluene	ND		ug/kg	110	11.	1
p-Chlorotoluene	ND		ug/kg	110	6.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	170	56.	1
Hexachlorobutadiene	ND		ug/kg	230	9.6	1
Isopropylbenzene	ND		ug/kg	56	6.2	1
p-Isopropyltoluene	ND		ug/kg	56	6.2	1
Naphthalene	39	J	ug/kg	230	37.	1
Acrylonitrile	ND		ug/kg	230	65.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09 Date Collected: 05/19/21 13:20

Client ID: 7-B3 (10.5-11.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	56	9.7	1
1,2,3-Trichlorobenzene	ND		ug/kg	110	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	15.	1
1,3,5-Trimethylbenzene	ND		ug/kg	110	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	110	19.	1
1,4-Dioxane	ND		ug/kg	4500	2000	1
p-Diethylbenzene	ND		ug/kg	110	10.	1
p-Ethyltoluene	ND		ug/kg	110	22.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	110	11.	1
Ethyl ether	ND		ug/kg	110	19.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	280	80.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	105		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10
Client ID: 3-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 14:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/21 09:51
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.85	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.85	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.85	0.10	1
Dibromochloromethane	ND		ug/kg	0.85	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.85	0.22	1
Tetrachloroethene	0.35	J	ug/kg	0.42	0.16	1
Chlorobenzene	ND		ug/kg	0.42	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.59	1
1,2-Dichloroethane	ND		ug/kg	0.85	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	0.14	1
Bromodichloromethane	ND		ug/kg	0.42	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	0.42	0.13	1
1,1-Dichloropropene	ND		ug/kg	0.42	0.13	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	0.14	1
Benzene	ND		ug/kg	0.42	0.14	1
Toluene	ND		ug/kg	0.85	0.46	1
Ethylbenzene	ND		ug/kg	0.85	0.12	1
Chloromethane	ND		ug/kg	3.4	0.79	1
Bromomethane	ND		ug/kg	1.7	0.49	1
Vinyl chloride	ND		ug/kg	0.85	0.28	1
Chloroethane	ND		ug/kg	1.7	0.38	1
1,1-Dichloroethene	ND		ug/kg	0.85	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10 Date Collected: 05/19/21 14:00

Client ID: 3-B1 (7.5-8) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.42	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.47	1
o-Xylene	ND		ug/kg	0.85	0.25	1
Xylenes, Total	ND		ug/kg	0.85	0.25	1
cis-1,2-Dichloroethene	0.41	J	ug/kg	0.85	0.15	1
1,2-Dichloroethene, Total	0.41	J	ug/kg	0.85	0.12	1
Dibromomethane	ND		ug/kg	1.7	0.20	1
Styrene	ND		ug/kg	0.85	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.5	0.77	1
Acetone	ND		ug/kg	8.5	4.1	1
Carbon disulfide	ND		ug/kg	8.5	3.8	1
2-Butanone	ND		ug/kg	8.5	1.9	1
Vinyl acetate	ND		ug/kg	8.5	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.5	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.5	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.17	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.85	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.42	0.11	1
Bromobenzene	ND		ug/kg	1.7	0.12	1
n-Butylbenzene	ND		ug/kg	0.85	0.14	1
sec-Butylbenzene	ND		ug/kg	0.85	0.12	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.84	1
Hexachlorobutadiene	ND		ug/kg	3.4	0.14	1
Isopropylbenzene	ND		ug/kg	0.85	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.85	0.09	1
Naphthalene	ND		ug/kg	3.4	0.55	1
Acrylonitrile	ND		ug/kg	3.4	0.97	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10 Date Collected: 05/19/21 14:00

Client ID: 3-B1 (7.5-8) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.85	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.28	1
1,4-Dioxane	ND		ug/kg	68	30.	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.32	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.16	1
Ethyl ether	ND		ug/kg	1.7	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.2	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	111		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-11
Client ID: 3-B1 (17.5-18)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 14:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/28/21 22:33
Analyst: MKS
Percent Solids: 31%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	24	11.	1
1,1-Dichloroethane	ND		ug/kg	4.8	0.70	1
Chloroform	ND		ug/kg	7.2	0.68	1
Carbon tetrachloride	ND		ug/kg	4.8	1.1	1
1,2-Dichloropropane	ND		ug/kg	4.8	0.60	1
Dibromochloromethane	ND		ug/kg	4.8	0.68	1
1,1,2-Trichloroethane	ND		ug/kg	4.8	1.3	1
Tetrachloroethene	ND		ug/kg	2.4	0.95	1
Chlorobenzene	ND		ug/kg	2.4	0.61	1
Trichlorofluoromethane	ND		ug/kg	19	3.4	1
1,2-Dichloroethane	ND		ug/kg	4.8	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	2.4	0.81	1
Bromodichloromethane	ND		ug/kg	2.4	0.53	1
trans-1,3-Dichloropropene	ND		ug/kg	4.8	1.3	1
cis-1,3-Dichloropropene	ND		ug/kg	2.4	0.76	1
1,3-Dichloropropene, Total	ND		ug/kg	2.4	0.76	1
1,1-Dichloropropene	ND		ug/kg	2.4	0.77	1
Bromoform	ND		ug/kg	19	1.2	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.4	0.80	1
Benzene	19		ug/kg	2.4	0.80	1
Toluene	11		ug/kg	4.8	2.6	1
Ethylbenzene	29		ug/kg	4.8	0.68	1
Chloromethane	ND		ug/kg	19	4.5	1
Bromomethane	ND		ug/kg	9.7	2.8	1
Vinyl chloride	ND		ug/kg	4.8	1.6	1
Chloroethane	ND		ug/kg	9.7	2.2	1
1,1-Dichloroethene	ND		ug/kg	4.8	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	7.2	0.66	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-11 Date Collected: 05/19/21 14:45

Client ID: 3-B1 (17.5-18) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	2.4	0.66	1
1,2-Dichlorobenzene	ND		ug/kg	9.7	0.70	1
1,3-Dichlorobenzene	ND		ug/kg	9.7	0.72	1
1,4-Dichlorobenzene	ND		ug/kg	9.7	0.83	1
Methyl tert butyl ether	15		ug/kg	9.7	0.97	1
p/m-Xylene	200		ug/kg	9.7	2.7	1
o-Xylene	56		ug/kg	4.8	1.4	1
Xylenes, Total	260		ug/kg	4.8	1.4	1
cis-1,2-Dichloroethene	0.89	J	ug/kg	4.8	0.84	1
1,2-Dichloroethene, Total	0.89	J	ug/kg	4.8	0.66	1
Dibromomethane	ND		ug/kg	9.7	1.2	1
Styrene	ND		ug/kg	4.8	0.95	1
Dichlorodifluoromethane	ND		ug/kg	48	4.4	1
Acetone	64		ug/kg	48	23.	1
Carbon disulfide	29	J	ug/kg	48	22.	1
2-Butanone	ND		ug/kg	48	11.	1
Vinyl acetate	ND		ug/kg	48	10.	1
4-Methyl-2-pentanone	ND		ug/kg	48	6.2	1
1,2,3-Trichloropropane	ND		ug/kg	9.7	0.61	1
2-Hexanone	ND		ug/kg	48	5.7	1
Bromochloromethane	ND		ug/kg	9.7	0.99	1
2,2-Dichloropropane	ND		ug/kg	9.7	0.98	1
1,2-Dibromoethane	ND		ug/kg	4.8	1.3	1
1,3-Dichloropropane	ND		ug/kg	9.7	0.81	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.4	0.64	1
Bromobenzene	ND		ug/kg	9.7	0.70	1
n-Butylbenzene	ND		ug/kg	4.8	0.81	1
sec-Butylbenzene	ND		ug/kg	4.8	0.70	1
tert-Butylbenzene	ND		ug/kg	9.7	0.57	1
o-Chlorotoluene	ND		ug/kg	9.7	0.92	1
p-Chlorotoluene	ND		ug/kg	9.7	0.52	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	14	4.8	1
Hexachlorobutadiene	ND		ug/kg	19	0.82	1
Isopropylbenzene	3.7	J	ug/kg	4.8	0.53	1
p-Isopropyltoluene	6.7		ug/kg	4.8	0.53	1
Naphthalene	ND		ug/kg	19	3.1	1
Acrylonitrile	ND		ug/kg	19	5.6	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-11 Date Collected: 05/19/21 14:45

Client ID: 3-B1 (17.5-18) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	4.8	0.83	1
1,2,3-Trichlorobenzene	ND		ug/kg	9.7	1.6	1
1,2,4-Trichlorobenzene	ND		ug/kg	9.7	1.3	1
1,3,5-Trimethylbenzene	6.8	J	ug/kg	9.7	0.93	1
1,2,4-Trimethylbenzene	6.6	J	ug/kg	9.7	1.6	1
1,4-Dioxane	ND		ug/kg	390	170	1
p-Diethylbenzene	ND		ug/kg	9.7	0.86	1
p-Ethyltoluene	5.8	J	ug/kg	9.7	1.8	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	9.7	0.92	1
Ethyl ether	ND		ug/kg	9.7	1.6	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	24	6.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/28/21 18:12
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03-05,08-09,11 Batch: WG1505774-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.14	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	1.4	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/28/21 18:12
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03-05,08-09,11 Batch: WG1505774-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/28/21 18:12
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03-05,08-09,11 Batch: WG1505774-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/28/21 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1505979-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/28/21 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1505979-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	10	J	ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/28/21 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1505979-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/21 07:15
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,10 Batch: WG1506002-12					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.78	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/21 07:15
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,10 Batch: WG1506002-12					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/21 07:15
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,10 Batch: WG1506002-12					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	105		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/30/21 07:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1506010-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/30/21 07:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1506010-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	10	J	ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/30/21 07:06
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1506010-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/21 07:15
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06,09 Batch: WG1506085-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	39	J	ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/21 07:15
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06,09 Batch: WG1506085-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/21 07:15
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06,09 Batch: WG1506085-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-05,08-09,11 Batch: WG1505774-3 WG1505774-4								
Methylene chloride	99		93		70-130	6		30
1,1-Dichloroethane	99		92		70-130	7		30
Chloroform	90		83		70-130	8		30
Carbon tetrachloride	91		84		70-130	8		30
1,2-Dichloropropane	100		94		70-130	6		30
Dibromochloromethane	101		97		70-130	4		30
1,1,2-Trichloroethane	105		100		70-130	5		30
Tetrachloroethene	110		101		70-130	9		30
Chlorobenzene	104		96		70-130	8		30
Trichlorofluoromethane	98		89		70-139	10		30
1,2-Dichloroethane	84		80		70-130	5		30
1,1,1-Trichloroethane	93		86		70-130	8		30
Bromodichloromethane	91		87		70-130	4		30
trans-1,3-Dichloropropene	107		101		70-130	6		30
cis-1,3-Dichloropropene	102		97		70-130	5		30
1,1-Dichloropropene	104		96		70-130	8		30
Bromoform	104		102		70-130	2		30
1,1,2,2-Tetrachloroethane	112		110		70-130	2		30
Benzene	102		95		70-130	7		30
Toluene	101		94		70-130	7		30
Ethylbenzene	106		98		70-130	8		30
Chloromethane	85		78		52-130	9		30
Bromomethane	117		102		57-147	14		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-05,08-09,11 Batch: WG1505774-3 WG1505774-4								
Vinyl chloride	121		111		67-130	9		30
Chloroethane	136		121		50-151	12		30
1,1-Dichloroethene	111		104		65-135	7		30
trans-1,2-Dichloroethene	104		97		70-130	7		30
Trichloroethene	99		92		70-130	7		30
1,2-Dichlorobenzene	103		98		70-130	5		30
1,3-Dichlorobenzene	106		100		70-130	6		30
1,4-Dichlorobenzene	105		99		70-130	6		30
Methyl tert butyl ether	98		95		66-130	3		30
p/m-Xylene	108		100		70-130	8		30
o-Xylene	107		99		70-130	8		30
cis-1,2-Dichloroethene	100		94		70-130	6		30
Dibromomethane	93		91		70-130	2		30
Styrene	106		100		70-130	6		30
Dichlorodifluoromethane	79		72		30-146	9		30
Acetone	90		85		54-140	6		30
Carbon disulfide	106		98		59-130	8		30
2-Butanone	93		93		70-130	0		30
Vinyl acetate	101		98		70-130	3		30
4-Methyl-2-pentanone	99		98		70-130	1		30
1,2,3-Trichloropropane	103		102		68-130	1		30
2-Hexanone	97		96		70-130	1		30
Bromochloromethane	98		91		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-05,08-09,11 Batch: WG1505774-3 WG1505774-4								
2,2-Dichloropropane	95		86		70-130	10		30
1,2-Dibromoethane	109		106		70-130	3		30
1,3-Dichloropropane	107		101		69-130	6		30
1,1,1,2-Tetrachloroethane	103		98		70-130	5		30
Bromobenzene	104		97		70-130	7		30
n-Butylbenzene	113		104		70-130	8		30
sec-Butylbenzene	111		103		70-130	7		30
tert-Butylbenzene	108		100		70-130	8		30
o-Chlorotoluene	108		101		70-130	7		30
p-Chlorotoluene	108		101		70-130	7		30
1,2-Dibromo-3-chloropropane	103		102		68-130	1		30
Hexachlorobutadiene	103		95		67-130	8		30
Isopropylbenzene	111		103		70-130	7		30
p-Isopropyltoluene	108		100		70-130	8		30
Naphthalene	104		100		70-130	4		30
Acrylonitrile	102		99		70-130	3		30
n-Propylbenzene	114		105		70-130	8		30
1,2,3-Trichlorobenzene	103		98		70-130	5		30
1,2,4-Trichlorobenzene	107		101		70-130	6		30
1,3,5-Trimethylbenzene	106		99		70-130	7		30
1,2,4-Trimethylbenzene	106		99		70-130	7		30
1,4-Dioxane	93		88		65-136	6		30
p-Diethylbenzene	111		103		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03-05,08-09,11 Batch: WG1505774-3 WG1505774-4								
p-Ethyltoluene	110		103		70-130	7		30
1,2,4,5-Tetramethylbenzene	108		100		70-130	8		30
Ethyl ether	**138**	Q	**131**	Q	67-130	5		30
trans-1,4-Dichloro-2-butene	102		100		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	86		87		70-130
Toluene-d8	105		103		70-130
4-Bromofluorobenzene	101		102		70-130
Dibromofluoromethane	94		95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1505979-3 WG1505979-4								
Methylene chloride	102		97		70-130	5		30
1,1-Dichloroethane	112		106		70-130	6		30
Chloroform	96		92		70-130	4		30
Carbon tetrachloride	97		92		70-130	5		30
1,2-Dichloropropane	106		102		70-130	4		30
Dibromochloromethane	98		97		70-130	1		30
1,1,2-Trichloroethane	98		96		70-130	2		30
Tetrachloroethene	101		95		70-130	6		30
Chlorobenzene	96		92		70-130	4		30
Trichlorofluoromethane	108		99		70-139	9		30
1,2-Dichloroethane	100		98		70-130	2		30
1,1,1-Trichloroethane	101		94		70-130	7		30
Bromodichloromethane	98		96		70-130	2		30
trans-1,3-Dichloropropene	100		98		70-130	2		30
cis-1,3-Dichloropropene	99		97		70-130	2		30
1,1-Dichloropropene	109		102		70-130	7		30
Bromoform	93		92		70-130	1		30
1,1,2,2-Tetrachloroethane	98		97		70-130	1		30
Benzene	105		99		70-130	6		30
Toluene	101		96		70-130	5		30
Ethylbenzene	100		94		70-130	6		30
Chloromethane	115		105		52-130	9		30
Bromomethane	145		134		57-147	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1505979-3 WG1505979-4								
Vinyl chloride	128		117		67-130	9		30
Chloroethane	**160**	Q	**152**	Q	50-151	5		30
1,1-Dichloroethene	116		106		65-135	9		30
trans-1,2-Dichloroethene	109		103		70-130	6		30
Trichloroethene	101		96		70-130	5		30
1,2-Dichlorobenzene	92		90		70-130	2		30
1,3-Dichlorobenzene	98		92		70-130	6		30
1,4-Dichlorobenzene	94		90		70-130	4		30
Methyl tert butyl ether	93		91		66-130	2		30
p/m-Xylene	99		94		70-130	5		30
o-Xylene	96		93		70-130	3		30
cis-1,2-Dichloroethene	103		99		70-130	4		30
Dibromomethane	98		96		70-130	2		30
Styrene	96		94		70-130	2		30
Dichlorodifluoromethane	61		55		30-146	10		30
Acetone	114		111		54-140	3		30
Carbon disulfide	121		113		59-130	7		30
2-Butanone	113		114		70-130	1		30
Vinyl acetate	118		115		70-130	3		30
4-Methyl-2-pentanone	98		95		70-130	3		30
1,2,3-Trichloropropane	96		96		68-130	0		30
2-Hexanone	95		96		70-130	1		30
Bromochloromethane	104		101		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1505979-3 WG1505979-4								
2,2-Dichloropropane	99		93		70-130	6		30
1,2-Dibromoethane	101		100		70-130	1		30
1,3-Dichloropropane	100		98		69-130	2		30
1,1,1,2-Tetrachloroethane	96		93		70-130	3		30
Bromobenzene	96		93		70-130	3		30
n-Butylbenzene	104		97		70-130	7		30
sec-Butylbenzene	100		94		70-130	6		30
tert-Butylbenzene	97		92		70-130	5		30
o-Chlorotoluene	101		95		70-130	6		30
p-Chlorotoluene	100		95		70-130	5		30
1,2-Dibromo-3-chloropropane	78		79		68-130	1		30
Hexachlorobutadiene	88		83		67-130	6		30
Isopropylbenzene	99		93		70-130	6		30
p-Isopropyltoluene	99		94		70-130	5		30
Naphthalene	85		83		70-130	2		30
Acrylonitrile	116		114		70-130	2		30
n-Propylbenzene	102		96		70-130	6		30
1,2,3-Trichlorobenzene	85		82		70-130	4		30
1,2,4-Trichlorobenzene	88		84		70-130	5		30
1,3,5-Trimethylbenzene	97		92		70-130	5		30
1,2,4-Trimethylbenzene	98		92		70-130	6		30
1,4-Dioxane	128		131		65-136	2		30
p-Diethylbenzene	98		93		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1505979-3 WG1505979-4								
p-Ethyltoluene	100		94		70-130	6		30
1,2,4,5-Tetramethylbenzene	93		89		70-130	4		30
Ethyl ether	110		107		67-130	3		30
trans-1,4-Dichloro-2-butene	106		105		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	96		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 Batch: WG1506002-10 WG1506002-11								
Methylene chloride	87		89		70-130	2		30
1,1-Dichloroethane	90		90		70-130	0		30
Chloroform	90		87		70-130	3		30
Carbon tetrachloride	97		92		70-130	5		30
1,2-Dichloropropane	90		90		70-130	0		30
Dibromochloromethane	101		105		70-130	4		30
1,1,2-Trichloroethane	91		98		70-130	7		30
Tetrachloroethene	100		98		70-130	2		30
Chlorobenzene	95		94		70-130	1		30
Trichlorofluoromethane	95		86		70-139	10		30
1,2-Dichloroethane	91		91		70-130	0		30
1,1,1-Trichloroethane	98		92		70-130	6		30
Bromodichloromethane	95		94		70-130	1		30
trans-1,3-Dichloropropene	100		105		70-130	5		30
cis-1,3-Dichloropropene	98		97		70-130	1		30
1,1-Dichloropropene	94		91		70-130	3		30
Bromoform	107		109		70-130	2		30
1,1,2,2-Tetrachloroethane	101		100		70-130	1		30
Benzene	90		90		70-130	0		30
Toluene	88		88		70-130	0		30
Ethylbenzene	97		94		70-130	3		30
Chloromethane	84		75		52-130	11		30
Bromomethane	90		86		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 Batch: WG1506002-10 WG1506002-11								
Vinyl chloride	88		81		67-130	8		30
Chloroethane	94		88		50-151	7		30
1,1-Dichloroethene	95		89		65-135	7		30
trans-1,2-Dichloroethene	93		91		70-130	2		30
Trichloroethene	95		91		70-130	4		30
1,2-Dichlorobenzene	98		96		70-130	2		30
1,3-Dichlorobenzene	100		97		70-130	3		30
1,4-Dichlorobenzene	99		97		70-130	2		30
Methyl tert butyl ether	91		98		66-130	7		30
p/m-Xylene	98		96		70-130	2		30
o-Xylene	98		96		70-130	2		30
cis-1,2-Dichloroethene	91		91		70-130	0		30
Dibromomethane	92		94		70-130	2		30
Styrene	98		96		70-130	2		30
Dichlorodifluoromethane	80		70		30-146	13		30
Acetone	78		102		54-140	27		30
Carbon disulfide	87		83		59-130	5		30
2-Butanone	82		97		70-130	17		30
Vinyl acetate	90		100		70-130	11		30
4-Methyl-2-pentanone	84		98		70-130	15		30
1,2,3-Trichloropropane	97		96		68-130	1		30
2-Hexanone	85		97		70-130	13		30
Bromochloromethane	93		94		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 Batch: WG1506002-10 WG1506002-11								
2,2-Dichloropropane	98		92		70-130	6		30
1,2-Dibromoethane	102		105		70-130	3		30
1,3-Dichloropropane	95		99		69-130	4		30
1,1,1,2-Tetrachloroethane	103		102		70-130	1		30
Bromobenzene	101		94		70-130	7		30
n-Butylbenzene	103		97		70-130	6		30
sec-Butylbenzene	101		94		70-130	7		30
tert-Butylbenzene	103		94		70-130	9		30
o-Chlorotoluene	102		94		70-130	8		30
p-Chlorotoluene	102		95		70-130	7		30
1,2-Dibromo-3-chloropropane	101		107		68-130	6		30
Hexachlorobutadiene	101		94		67-130	7		30
Isopropylbenzene	105		96		70-130	9		30
p-Isopropyltoluene	100		96		70-130	4		30
Naphthalene	98		102		70-130	4		30
Acrylonitrile	89		103		70-130	15		30
n-Propylbenzene	105		93		70-130	12		30
1,2,3-Trichlorobenzene	102		100		70-130	2		30
1,2,4-Trichlorobenzene	105		102		70-130	3		30
1,3,5-Trimethylbenzene	102		93		70-130	9		30
1,2,4-Trimethylbenzene	102		96		70-130	6		30
1,4-Dioxane	80		87		65-136	8		30
p-Diethylbenzene	104		97		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 Batch: WG1506002-10 WG1506002-11								
p-Ethyltoluene	104		94		70-130	10		30
1,2,4,5-Tetramethylbenzene	105		100		70-130	5		30
Ethyl ether	100		101		67-130	1		30
trans-1,4-Dichloro-2-butene	102		105		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	99		101		70-130
4-Bromofluorobenzene	101		97		70-130
Dibromofluoromethane	100		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1506010-3 WG1506010-4								
Methylene chloride	94		94		70-130	0		30
1,1-Dichloroethane	102		100		70-130	2		30
Chloroform	100		100		70-130	0		30
Carbon tetrachloride	103		103		70-130	0		30
1,2-Dichloropropane	102		102		70-130	0		30
Dibromochloromethane	111		112		70-130	1		30
1,1,2-Trichloroethane	109		108		70-130	1		30
Tetrachloroethene	106		109		70-130	3		30
Chlorobenzene	101		104		70-130	3		30
Trichlorofluoromethane	104		103		70-139	1		30
1,2-Dichloroethane	96		94		70-130	2		30
1,1,1-Trichloroethane	100		99		70-130	1		30
Bromodichloromethane	106		105		70-130	1		30
trans-1,3-Dichloropropene	109		109		70-130	0		30
cis-1,3-Dichloropropene	110		110		70-130	0		30
1,1-Dichloropropene	106		106		70-130	0		30
Bromoform	109		110		70-130	1		30
1,1,2,2-Tetrachloroethane	110		107		70-130	3		30
Benzene	104		104		70-130	0		30
Toluene	107		107		70-130	0		30
Ethylbenzene	104		105		70-130	1		30
Chloromethane	105		99		52-130	6		30
Bromomethane	105		108		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1506010-3 WG1506010-4								
Vinyl chloride	114		110		67-130	4		30
Chloroethane	116		115		50-151	1		30
1,1-Dichloroethene	109		109		65-135	0		30
trans-1,2-Dichloroethene	108		108		70-130	0		30
Trichloroethene	104		106		70-130	2		30
1,2-Dichlorobenzene	106		106		70-130	0		30
1,3-Dichlorobenzene	105		105		70-130	0		30
1,4-Dichlorobenzene	102		103		70-130	1		30
Methyl tert butyl ether	102		100		66-130	2		30
p/m-Xylene	106		107		70-130	1		30
o-Xylene	105		106		70-130	1		30
cis-1,2-Dichloroethene	107		106		70-130	1		30
Dibromomethane	105		105		70-130	0		30
Styrene	109		111		70-130	2		30
Dichlorodifluoromethane	146		140		30-146	4		30
Acetone	82		81		54-140	1		30
Carbon disulfide	100		100		59-130	0		30
2-Butanone	79		76		70-130	4		30
Vinyl acetate	104		100		70-130	4		30
4-Methyl-2-pentanone	99		98		70-130	1		30
1,2,3-Trichloropropane	103		102		68-130	1		30
2-Hexanone	86		85		70-130	1		30
Bromochloromethane	108		110		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1506010-3 WG1506010-4								
2,2-Dichloropropane	103		102		70-130	1		30
1,2-Dibromoethane	100		101		70-130	1		30
1,3-Dichloropropane	103		106		69-130	3		30
1,1,1,2-Tetrachloroethane	107		108		70-130	1		30
Bromobenzene	108		107		70-130	1		30
n-Butylbenzene	106		105		70-130	1		30
sec-Butylbenzene	108		107		70-130	1		30
tert-Butylbenzene	110		108		70-130	2		30
o-Chlorotoluene	92		89		70-130	3		30
p-Chlorotoluene	106		104		70-130	2		30
1,2-Dibromo-3-chloropropane	93		90		68-130	3		30
Hexachlorobutadiene	104		104		67-130	0		30
Isopropylbenzene	111		109		70-130	2		30
p-Isopropyltoluene	109		107		70-130	2		30
Naphthalene	100		100		70-130	0		30
Acrylonitrile	86		85		70-130	1		30
n-Propylbenzene	108		106		70-130	2		30
1,2,3-Trichlorobenzene	100		100		70-130	0		30
1,2,4-Trichlorobenzene	105		104		70-130	1		30
1,3,5-Trimethylbenzene	109		106		70-130	3		30
1,2,4-Trimethylbenzene	107		105		70-130	2		30
1,4-Dioxane	99		98		65-136	1		30
p-Diethylbenzene	110		108		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1506010-3 WG1506010-4								
p-Ethyltoluene	109		106		70-130	3		30
1,2,4,5-Tetramethylbenzene	109		108		70-130	1		30
Ethyl ether	108		107		67-130	1		30
trans-1,4-Dichloro-2-butene	103		99		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		90		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	105		103		70-130
Dibromofluoromethane	97		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06,09 Batch: WG1506085-3 WG1506085-4								
Methylene chloride	87		89		70-130	2		30
1,1-Dichloroethane	90		90		70-130	0		30
Chloroform	90		87		70-130	3		30
Carbon tetrachloride	97		92		70-130	5		30
1,2-Dichloropropane	90		90		70-130	0		30
Dibromochloromethane	101		105		70-130	4		30
1,1,2-Trichloroethane	91		98		70-130	7		30
Tetrachloroethene	100		98		70-130	2		30
Chlorobenzene	95		94		70-130	1		30
Trichlorofluoromethane	95		86		70-139	10		30
1,2-Dichloroethane	91		91		70-130	0		30
1,1,1-Trichloroethane	98		92		70-130	6		30
Bromodichloromethane	95		94		70-130	1		30
trans-1,3-Dichloropropene	100		105		70-130	5		30
cis-1,3-Dichloropropene	98		97		70-130	1		30
1,1-Dichloropropene	94		91		70-130	3		30
Bromoform	107		109		70-130	2		30
1,1,2,2-Tetrachloroethane	101		100		70-130	1		30
Benzene	90		90		70-130	0		30
Toluene	88		88		70-130	0		30
Ethylbenzene	97		94		70-130	3		30
Chloromethane	84		75		52-130	11		30
Bromomethane	90		86		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06,09 Batch: WG1506085-3 WG1506085-4								
Vinyl chloride	88		81		67-130	8		30
Chloroethane	94		88		50-151	7		30
1,1-Dichloroethene	95		89		65-135	7		30
trans-1,2-Dichloroethene	93		91		70-130	2		30
Trichloroethene	95		91		70-130	4		30
1,2-Dichlorobenzene	98		96		70-130	2		30
1,3-Dichlorobenzene	100		97		70-130	3		30
1,4-Dichlorobenzene	99		97		70-130	2		30
Methyl tert butyl ether	91		98		66-130	7		30
p/m-Xylene	98		96		70-130	2		30
o-Xylene	98		96		70-130	2		30
cis-1,2-Dichloroethene	91		91		70-130	0		30
Dibromomethane	92		94		70-130	2		30
Styrene	98		96		70-130	2		30
Dichlorodifluoromethane	80		70		30-146	13		30
Acetone	78		102		54-140	27		30
Carbon disulfide	87		83		59-130	5		30
2-Butanone	82		97		70-130	17		30
Vinyl acetate	90		100		70-130	11		30
4-Methyl-2-pentanone	84		98		70-130	15		30
1,2,3-Trichloropropane	97		96		68-130	1		30
2-Hexanone	85		97		70-130	13		30
Bromochloromethane	93		94		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06,09 Batch: WG1506085-3 WG1506085-4								
2,2-Dichloropropane	98		92		70-130	6		30
1,2-Dibromoethane	102		105		70-130	3		30
1,3-Dichloropropane	95		99		69-130	4		30
1,1,1,2-Tetrachloroethane	103		102		70-130	1		30
Bromobenzene	101		94		70-130	7		30
n-Butylbenzene	103		97		70-130	6		30
sec-Butylbenzene	101		94		70-130	7		30
tert-Butylbenzene	103		94		70-130	9		30
o-Chlorotoluene	102		94		70-130	8		30
p-Chlorotoluene	102		95		70-130	7		30
1,2-Dibromo-3-chloropropane	101		107		68-130	6		30
Hexachlorobutadiene	101		94		67-130	7		30
Isopropylbenzene	105		96		70-130	9		30
p-Isopropyltoluene	100		96		70-130	4		30
Naphthalene	98		102		70-130	4		30
Acrylonitrile	89		103		70-130	15		30
n-Propylbenzene	105		93		70-130	12		30
1,2,3-Trichlorobenzene	102		100		70-130	2		30
1,2,4-Trichlorobenzene	105		102		70-130	3		30
1,3,5-Trimethylbenzene	102		93		70-130	9		30
1,2,4-Trimethylbenzene	102		96		70-130	6		30
1,4-Dioxane	80		87		65-136	8		30
p-Diethylbenzene	104		97		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06,09 Batch: WG1506085-3 WG1506085-4								
p-Ethyltoluene	104		94		70-130	10		30
1,2,4,5-Tetramethylbenzene	105		100		70-130	5		30
Ethyl ether	100		101		67-130	1		30
trans-1,4-Dichloro-2-butene	102		105		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	99		101		70-130
4-Bromofluorobenzene	101		97		70-130
Dibromofluoromethane	100		102		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 QC Batch ID: WG1506002-6 WG1506002-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
Methylene chloride	ND	106	52	**49**	Q	60	**57**	Q	70-130	13		30
1,1-Dichloroethane	0.12J	106	76	72		79	76		70-130	4		30
Chloroform	ND	106	71	**67**	Q	72	**69**	Q	70-130	1		30
Carbon tetrachloride	ND	106	87	82		89	85		70-130	2		30
1,2-Dichloropropane	ND	106	63	**59**	Q	63	**60**	Q	70-130	0		30
Dibromochloromethane	ND	106	57	**54**	Q	50	**48**	Q	70-130	14		30
1,1,2-Trichloroethane	ND	106	54	**50**	Q	53	**50**	Q	70-130	2		30
Tetrachloroethene	1.8	106	54	**49**	Q	54	**50**	Q	70-130	0		30
Chlorobenzene	ND	106	40	**37**	Q	33	**31**	Q	70-130	19		30
Trichlorofluoromethane	ND	106	110	100		110	109		70-139	7		30
1,2-Dichloroethane	ND	106	70	**66**	Q	65	**62**	Q	70-130	8		30
1,1,1-Trichloroethane	ND	106	91	86		96	92		70-130	5		30
Bromodichloromethane	ND	106	67	**63**	Q	61	**59**	Q	70-130	9		30
trans-1,3-Dichloropropene	ND	106	34	**32**	Q	24	**23**	Q	70-130	**33**	Q	30
cis-1,3-Dichloropropene	ND	106	46	**43**	Q	30	**28**	Q	70-130	**42**	Q	30
1,1-Dichloropropene	ND	106	63	**59**	Q	60	**58**	Q	70-130	5		30
Bromoform	ND	106	47	**44**	Q	38	**37**	Q	70-130	20		30
1,1,2,2-Tetrachloroethane	ND	106	41	**38**	Q	40	**38**	Q	70-130	1		30
Benzene	0.19J	106	63	**60**	Q	63	**60**	Q	70-130	1		30
Toluene	ND	106	51	**48**	Q	49	**46**	Q	70-130	6		30
Ethylbenzene	ND	106	46	**44**	Q	43	**42**	Q	70-130	6		30
Chloromethane	ND	106	73	68		87	83		52-130	18		30
Bromomethane	ND	106	58	**55**	Q	62	59		57-147	6		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 QC Batch ID: WG1506002-6 WG1506002-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
Vinyl chloride	ND	106	66	**62**	Q	87	83		67-130	27		30
Chloroethane	ND	106	76	72		88	84		50-151	14		30
1,1-Dichloroethene	ND	106	69	65		74	71		65-135	6		30
trans-1,2-Dichloroethene	0.38J	106	45	**42**	Q	53	**51**	Q	70-130	17		30
Trichloroethene	0.72	106	57	**53**	Q	53	**50**	Q	70-130	7		30
1,2-Dichlorobenzene	ND	106	21	**20**	Q	18	**17**	Q	70-130	17		30
1,3-Dichlorobenzene	ND	106	22	**21**	Q	16	**15**	Q	70-130	**33**	Q	30
1,4-Dichlorobenzene	ND	106	20	**18**	Q	13	**12**	Q	70-130	**40**	Q	30
Methyl tert butyl ether	ND	106	73	69		78	75		66-130	7		30
p/m-Xylene	ND	212	88	**42**	Q	83	**40**	Q	70-130	6		30
o-Xylene	ND	212	90	**42**	Q	91	**44**	Q	70-130	1		30
cis-1,2-Dichloroethene	0.94	106	52	**48**	Q	56	**52**	Q	70-130	7		30
Dibromomethane	ND	106	48	**45**	Q	45	**43**	Q	70-130	6		30
Styrene	ND	212	67	**32**	Q	39	**19**	Q	70-130	**53**	Q	30
Dichlorodifluoromethane	ND	106	90	85		100	97		30-146	11		30
Acetone	12	106	81	65		270	**247**	Q	54-140	**108**	Q	30
Carbon disulfide	ND	106	33	**31**	Q	47	**45**	Q	59-130	**34**	Q	30
2-Butanone	ND	106	69	**65**	Q	110	107		70-130	**47**	Q	30
Vinyl acetate	ND	106	21	**19**	Q	19	**18**	Q	70-130	7		30
4-Methyl-2-pentanone	ND	106	55	**52**	Q	59	**56**	Q	70-130	8		30
1,2,3-Trichloropropane	ND	106	46	**44**	Q	47	**45**	Q	68-130	1		30
2-Hexanone	ND	106	53	**50**	Q	55	**53**	Q	70-130	4		30
Bromochloromethane	ND	106	52	**49**	Q	55	**53**	Q	70-130	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 QC Batch ID: WG1506002-6 WG1506002-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
2,2-Dichloropropane	ND	106	91	86		98	93		70-130	7		30
1,2-Dibromoethane	ND	106	45	**43**	Q	36	**34**	Q	70-130	23		30
1,3-Dichloropropane	ND	106	52	**49**	Q	47	**45**	Q	69-130	10		30
1,1,1,2-Tetrachloroethane	ND	106	61	**57**	Q	60	**57**	Q	70-130	1		30
Bromobenzene	ND	106	30	**28**	Q	22	**21**	Q	70-130	28		30
n-Butylbenzene	ND	106	24	**23**	Q	23	**22**	Q	70-130	5		30
sec-Butylbenzene	ND	106	31	**30**	Q	34	**32**	Q	70-130	8		30
tert-Butylbenzene	ND	106	36	**34**	Q	39	**38**	Q	70-130	9		30
o-Chlorotoluene	ND	106	34	**32**	Q	33	**31**	Q	70-130	4		30
p-Chlorotoluene	ND	106	29	**27**	Q	21	**20**	Q	70-130	29		30
1,2-Dibromo-3-chloropropane	ND	106	37	**34**	Q	37	**35**	Q	68-130	1		30
Hexachlorobutadiene	ND	106	14	**14**	Q	15	**15**	Q	67-130	7		30
Isopropylbenzene	ND	106	43	**41**	Q	47	**45**	Q	70-130	8		30
p-Isopropyltoluene	ND	106	30	**28**	Q	32	**30**	Q	70-130	6		30
Naphthalene	ND	106	12	**11**	Q	10	**10**	Q	70-130	13		30
Acrylonitrile	ND	106	46	**44**	Q	54	**52**	Q	70-130	16		30
n-Propylbenzene	ND	106	36	**34**	Q	35	**33**	Q	70-130	3		30
1,2,3-Trichlorobenzene	ND	106	9.7	**9**	Q	8.6	**8**	Q	70-130	12		30
1,2,4-Trichlorobenzene	ND	106	10	**9**	Q	7.8	**8**	Q	70-130	25		30
1,3,5-Trimethylbenzene	ND	106	35	**33**	Q	37	**35**	Q	70-130	4		30
1,2,4-Trimethylbenzene	ND	106	33	**31**	Q	33	**31**	Q	70-130	1		30
1,4-Dioxane	ND	5300	4200	80		4500	85		65-136	5		30
p-Diethylbenzene	ND	106	26	**24**	Q	25	**24**	Q	70-130	4		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02,10 QC Batch ID: WG1506002-6 WG1506002-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
p-Ethyltoluene	ND	106	35	**33**	Q	33	**31**	Q	70-130	6		30
1,2,4,5-Tetramethylbenzene	ND	106	20	**19**	Q	20	**19**	Q	70-130	0		30
Ethyl ether	ND	106	70	**66**	Q	74	71		67-130	5		30
trans-1,4-Dichloro-2-butene	ND	106	32	**30**	Q	13	**13**	Q	70-130	**83**	Q	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		122		70-130
4-Bromofluorobenzene	99		103		70-130
Dibromofluoromethane	111		111		70-130
Toluene-d8	100		103		70-130

SEMIVOLATILES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-02
Client ID: 10-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 08:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 19:13
Analyst: SZ
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 01:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	310		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	24	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-02 Date Collected: 05/19/21 08:00

Client ID: 10-B1 (8.5-9) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	160		ug/kg	120	22.	1
Benzo(a)pyrene	140	J	ug/kg	160	48.	1
Benzo(b)fluoranthene	150		ug/kg	120	33.	1
Benzo(k)fluoranthene	56	J	ug/kg	120	31.	1
Chrysene	150		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	41	J	ug/kg	120	38.	1
Benzo(ghi)perylene	64	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	150		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	70	J	ug/kg	160	27.	1
Pyrene	270		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-02 Date Collected: 05/19/21 08:00

Client ID: 10-B1 (8.5-9) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	103		25-120
Phenol-d6	99		10-120
Nitrobenzene-d5	111		23-120
2-Fluorobiphenyl	113		30-120
2,4,6-Tribromophenol	110		10-136
4-Terphenyl-d14	101		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-04
Client ID: DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 08:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/03/21 13:54
Analyst: SZ
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 01:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	110		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-04 Date Collected: 05/19/21 08:00

Client ID: DUP Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	71	J	ug/kg	110	21.	1
Benzo(a)pyrene	60	J	ug/kg	150	45.	1
Benzo(b)fluoranthene	70	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	58	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	33	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	76	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	35	J	ug/kg	150	26.	1
Pyrene	100	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-04 Date Collected: 05/19/21 08:00

Client ID: DUP Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	56		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05
Client ID: 7-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 09:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 18:51
Analyst: SZ
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 01:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	26.	1
Hexachlorobenzene	ND		ug/kg	140	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	31.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	43	J	ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	39.	1
1,4-Dichlorobenzene	ND		ug/kg	220	39.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	60.	1
2,4-Dinitrotoluene	ND		ug/kg	220	45.	1
2,6-Dinitrotoluene	ND		ug/kg	220	39.	1
Fluoranthene	320		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	23.	1
Hexachlorobutadiene	ND		ug/kg	220	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	650	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	ND		ug/kg	220	28.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	78.	1
Butyl benzyl phthalate	ND		ug/kg	220	57.	1
Di-n-butylphthalate	ND		ug/kg	220	43.	1
Di-n-octylphthalate	ND		ug/kg	220	77.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05 Date Collected: 05/19/21 09:45

Client ID: 7-B2 (6.5-7) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	21.	1
Dimethyl phthalate	ND		ug/kg	220	47.	1
Benzo(a)anthracene	180		ug/kg	140	25.	1
Benzo(a)pyrene	170	J	ug/kg	180	55.	1
Benzo(b)fluoranthene	180		ug/kg	140	38.	1
Benzo(k)fluoranthene	77	J	ug/kg	140	36.	1
Chrysene	170		ug/kg	140	23.	1
Acenaphthylene	ND		ug/kg	180	35.	1
Anthracene	52	J	ug/kg	140	44.	1
Benzo(ghi)perylene	82	J	ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	230		ug/kg	140	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	96	J	ug/kg	180	31.	1
Pyrene	310		ug/kg	140	22.	1
Biphenyl	ND		ug/kg	520	52.	1
4-Chloroaniline	ND		ug/kg	220	41.	1
2-Nitroaniline	ND		ug/kg	220	44.	1
3-Nitroaniline	ND		ug/kg	220	43.	1
4-Nitroaniline	ND		ug/kg	220	94.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	24.	1
Acetophenone	ND		ug/kg	220	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	43.	1
p-Chloro-m-cresol	ND		ug/kg	220	34.	1
2-Chlorophenol	ND		ug/kg	220	27.	1
2,4-Dichlorophenol	ND		ug/kg	200	36.	1
2,4-Dimethylphenol	ND		ug/kg	220	74.	1
2-Nitrophenol	ND		ug/kg	490	85.	1
4-Nitrophenol	ND		ug/kg	320	92.	1
2,4-Dinitrophenol	ND		ug/kg	1100	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	590	110	1
Pentachlorophenol	ND		ug/kg	180	50.	1
Phenol	ND		ug/kg	220	34.	1
2-Methylphenol	ND		ug/kg	220	35.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05 Date Collected: 05/19/21 09:45

Client ID: 7-B2 (6.5-7) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	43.	1
Benzoic Acid	ND		ug/kg	730	230	1
Benzyl Alcohol	ND		ug/kg	220	69.	1
Carbazole	ND		ug/kg	220	22.	1
1,4-Dioxane	ND		ug/kg	34	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	68		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05
Client ID: 7-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 09:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/29/21 17:53
Analyst: SG
Percent Solids: 73%

Extraction Method: ALPHA 23528
Extraction Date: 05/21/21 15:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.060	J	ng/g	0.614	0.028	1
Perfluoropentanoic Acid (PFPeA)	0.079	J	ng/g	0.614	0.057	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.307	0.048	1
Perfluorohexanoic Acid (PFHxA)	0.141	J	ng/g	0.614	0.065	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.307	0.055	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.307	0.074	1
Perfluorooctanoic Acid (PFOA)	0.082	J	ng/g	0.307	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.614	0.221	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.614	0.168	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.307	0.092	1
Perfluorooctanesulfonic Acid (PFOS)	0.552		ng/g	0.307	0.160	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.307	0.082	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.614	0.353	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.614	0.248	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.614	0.058	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.614	0.188	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.614	0.120	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.238	J	ng/g	0.614	0.104	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.614	0.086	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.614	0.251	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.614	0.066	1
PFOA/PFOS, Total	0.634	J	ng/g	0.307	0.052	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05 Date Collected: 05/19/21 09:45

Client ID: 7-B2 (6.5-7) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	75		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	86		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	83		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	79		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	79		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	81		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	78		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	40		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	79		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	76		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	51		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**27**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	56		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	38		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 08:13
Analyst: JG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 01:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	340		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	190	J	ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	46	J	ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	5500		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	200		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	98	J	ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	1600		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	66.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 Date Collected: 05/19/21 11:15

Client ID: 7-B1 (9-10) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	2800		ug/kg	120	22.	1
Benzo(a)pyrene	2900		ug/kg	160	48.	1
Benzo(b)fluoranthene	3300		ug/kg	120	33.	1
Benzo(k)fluoranthene	1300		ug/kg	120	31.	1
Chrysene	2700		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	1800		ug/kg	120	38.	1
Benzo(ghi)perylene	1700		ug/kg	160	23.	1
Fluorene	520		ug/kg	200	19.	1
Phenanthrene	3800		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	460		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	2000		ug/kg	160	27.	1
Pyrene	4100		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	240		ug/kg	200	18.	1
2-Methylnaphthalene	130	J	ug/kg	230	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	200	64.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 Date Collected: 05/19/21 11:15

Client ID: 7-B1 (9-10) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	120	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	49		30-120
2,4,6-Tribromophenol	51		10-136
4-Terphenyl-d14	42		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/29/21 18:09
Analyst: SG
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 05/21/21 15:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.558	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.558	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.279	0.044	1
Perfluorohexanoic Acid (PFHxA)	0.062	J	ng/g	0.558	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.279	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.279	0.068	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.279	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.558	0.200	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.558	0.152	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.279	0.084	1
Perfluorooctanesulfonic Acid (PFOS)	1.24		ng/g	0.279	0.145	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.279	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.558	0.320	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.558	0.225	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.558	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.558	0.171	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.558	0.109	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.82		ng/g	0.558	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.558	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.558	0.228	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.558	0.060	1
PFOA/PFOS, Total	1.24		ng/g	0.279	0.047	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 Date Collected: 05/19/21 11:15

Client ID: 7-B1 (9-10) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	115		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	104		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	110		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	112		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	131		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**28**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	56		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	35		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	116		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	87		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09
Client ID: 7-B3 (10.5-11.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 13:20
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/01/21 08:35
Analyst: JG
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 01:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09 Date Collected: 05/19/21 13:20

Client ID: 7-B3 (10.5-11.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09 Date Collected: 05/19/21 13:20

Client ID: 7-B3 (10.5-11.5) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	68		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10
Client ID: 3-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 14:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/02/21 14:37
Analyst: IM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 01:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	100	J	ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	26	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10 Date Collected: 05/19/21 14:00

Client ID: 3-B1 (7.5-8) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	50	J	ug/kg	110	22.	1
Benzo(a)pyrene	54	J	ug/kg	150	47.	1
Benzo(b)fluoranthene	63	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	31.	1
Chrysene	47	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	36	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	67	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	38	J	ug/kg	150	27.	1
Pyrene	94	J	ug/kg	110	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	41	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10 Date Collected: 05/19/21 14:00

Client ID: 3-B1 (7.5-8) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	67		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10
Client ID: 3-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 14:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/29/21 18:26
Analyst: SG
Percent Solids: 87%

Extraction Method: ALPHA 23528
Extraction Date: 05/21/21 15:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.518	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.518	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.259	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.518	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.259	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.259	0.063	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.259	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.518	0.186	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.518	0.142	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.259	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.259	0.135	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.259	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.518	0.298	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.518	0.209	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.518	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.518	0.159	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.518	0.102	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.518	0.088	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.518	0.073	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.518	0.212	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.518	0.056	1
PFOA/PFOS, Total	ND		ng/g	0.259	0.043	1

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10 Date Collected: 05/19/21 14:00

Client ID: 3-B1 (7.5-8) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	96		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	88		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	86		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	86		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	80		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	34		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	90		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	46		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	37		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	67		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/24/21 17:20
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/21/21 15:35

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05,07,10 Batch: WG1502082-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	0.055	J	ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/24/21 17:20
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 05/21/21 15:35

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05,07,10 Batch: WG1502082-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	108		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	102		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	74		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	74		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	35		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	69		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/30/21 13:10
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/21/21 15:35

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05,07,10 Batch: WG1502082-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	76		10-117

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/02/21 14:13
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04-05,07,09-10 Batch: WG1505612-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	68	J	ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/02/21 14:13
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04-05,07,09-10 Batch: WG1505612-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/02/21 14:13
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04-05,07,09-10 Batch: WG1505612-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		25-120
Phenol-d6	42		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	43		30-120
2,4,6-Tribromophenol	43		10-136
4-Terphenyl-d14	45		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 Batch: WG1502082-2								
Perfluorobutanoic Acid (PFBA)	97		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	97		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	98		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	98		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	98		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	100		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	97		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	107		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	101		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	96		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	96		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	97		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	105		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	90		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	98		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	99		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	112		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	105		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	105		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	96		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	102		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 Batch: WG1502082-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	101				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	104				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	84				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	92				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	85				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 Batch: WG1502082-2								
Perfluorooctanesulfonamide (FOSA)	94		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	76				10-117

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 Batch: WG1505612-2 WG1505612-3								
Acenaphthene	76		73		31-137	4		50
1,2,4-Trichlorobenzene	69		66		38-107	4		50
Hexachlorobenzene	76		72		40-140	5		50
Bis(2-chloroethyl)ether	72		71		40-140	1		50
2-Chloronaphthalene	78		74		40-140	5		50
1,2-Dichlorobenzene	70		67		40-140	4		50
1,3-Dichlorobenzene	70		66		40-140	6		50
1,4-Dichlorobenzene	69		66		28-104	4		50
3,3'-Dichlorobenzidine	68		64		40-140	6		50
2,4-Dinitrotoluene	84		80		40-132	5		50
2,6-Dinitrotoluene	89		86		40-140	3		50
Fluoranthene	84		78		40-140	7		50
4-Chlorophenyl phenyl ether	78		76		40-140	3		50
4-Bromophenyl phenyl ether	80		74		40-140	8		50
Bis(2-chloroisopropyl)ether	112		107		40-140	5		50
Bis(2-chloroethoxy)methane	75		70		40-117	7		50
Hexachlorobutadiene	77		72		40-140	7		50
Hexachlorocyclopentadiene	56		55		40-140	2		50
Hexachloroethane	75		71		40-140	5		50
Isophorone	74		69		40-140	7		50
Naphthalene	78		73		40-140	7		50
Nitrobenzene	84		80		40-140	5		50
NDPA/DPA	85		80		36-157	6		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 Batch: WG1505612-2 WG1505612-3								
n-Nitrosodi-n-propylamine	79		76		32-121	4		50
Bis(2-ethylhexyl)phthalate	102		97		40-140	5		50
Butyl benzyl phthalate	95		89		40-140	7		50
Di-n-butylphthalate	89		84		40-140	6		50
Di-n-octylphthalate	103		98		40-140	5		50
Diethyl phthalate	85		80		40-140	6		50
Dimethyl phthalate	78		74		40-140	5		50
Benzo(a)anthracene	82		78		40-140	5		50
Benzo(a)pyrene	92		84		40-140	9		50
Benzo(b)fluoranthene	87		84		40-140	4		50
Benzo(k)fluoranthene	87		78		40-140	11		50
Chrysene	83		77		40-140	8		50
Acenaphthylene	78		74		40-140	5		50
Anthracene	80		75		40-140	6		50
Benzo(ghi)perylene	87		82		40-140	6		50
Fluorene	84		79		40-140	6		50
Phenanthrene	79		74		40-140	7		50
Dibenzo(a,h)anthracene	84		79		40-140	6		50
Indeno(1,2,3-cd)pyrene	87		82		40-140	6		50
Pyrene	83		78		35-142	6		50
Biphenyl	76		72		37-127	5		50
4-Chloroaniline	76		72		40-140	5		50
2-Nitroaniline	94		88		47-134	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 Batch: WG1505612-2 WG1505612-3								
3-Nitroaniline	70		68		26-129	3		50
4-Nitroaniline	85		83		41-125	2		50
Dibenzofuran	82		79		40-140	4		50
2-Methylnaphthalene	80		76		40-140	5		50
1,2,4,5-Tetrachlorobenzene	74		69		40-117	7		50
Acetophenone	72		68		14-144	6		50
2,4,6-Trichlorophenol	86		81		30-130	6		50
p-Chloro-m-cresol	94		89		26-103	5		50
2-Chlorophenol	80		76		25-102	5		50
2,4-Dichlorophenol	81		78		30-130	4		50
2,4-Dimethylphenol	83		78		30-130	6		50
2-Nitrophenol	88		84		30-130	5		50
4-Nitrophenol	**115**	Q	108		11-114	6		50
2,4-Dinitrophenol	98		98		4-130	0		50
4,6-Dinitro-o-cresol	93		89		10-130	4		50
Pentachlorophenol	78		74		17-109	5		50
Phenol	81		77		26-90	5		50
2-Methylphenol	83		77		30-130.	8		50
3-Methylphenol/4-Methylphenol	81		79		30-130	3		50
2,4,5-Trichlorophenol	89		84		30-130	6		50
Benzoic Acid	94		90		10-110	4		50
Benzyl Alcohol	85		81		40-140	5		50
Carbazole	85		80		54-128	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 Batch: WG1505612-2 WG1505612-3								
1,4-Dioxane	64		60		40-140	6		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	92		87		25-120
Phenol-d6	87		79		10-120
Nitrobenzene-d5	88		84		23-120
2-Fluorobiphenyl	83		76		30-120
2,4,6-Tribromophenol	82		75		10-136
4-Terphenyl-d14	81		74		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1502082-3 WG1502082-4 QC Sample: L2126259-05 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	5.35	5.19	97		4.98	98		71-135	4		30
Perfluoropentanoic Acid (PFPeA)	ND	5.35	5.17	97		4.85	95		69-132	6		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.75	4.51	95		4.30	95		72-128	5		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5	4.99	100		4.80	101		62-145	4		30
Perfluorohexanoic Acid (PFHxA)	0.059J	5.35	5.28	98		5.03	98		70-132	5		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	5.03	4.89	97		4.34	91		73-123	12		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.35	5.19	97		5.01	98		71-131	4		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.89	4.87	100		4.25	91		67-130	14		30
Perfluorooctanoic Acid (PFOA)	0.053J	5.35	5.16	96		4.84	94		69-133	6		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.09	5.52	108		5.22	108		64-140	6		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.09	5.15	101		4.91	101		70-132	5		30
Perfluorononanoic Acid (PFNA)	ND	5.35	5.16	97		4.93	97		72-129	5		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.96	4.86	98		4.67	99		68-136	4		30
Perfluorodecanoic Acid (PFDA)	ND	5.35	5.23	98		5.01	98		69-133	4		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.13	5.97	116		5.08	104		65-137	16		30
Perfluorononanesulfonic Acid (PFNS)	ND	5.14	5.24	102		4.96	101		69-125	5		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.35	5.14	96		5.67	111		63-144	10		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.35	5.27	99		4.87	96		64-136	8		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.16	4.98	97		4.92	100		59-134	1		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.35	5.98	112		5.61	110		61-139	6		30
Perfluorododecanoic Acid (PFDoA)	ND	5.35	5.28	99		5.00	98		69-135	5		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.35	4.77	89		4.54	89		66-139	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1502082-3 WG1502082-4 QC Sample: L2126259-05 Client ID: MS Sample												
Perfluorotetradecanoic Acid (PFTA)	ND	5.35	5.62	105		5.52	108		69-133	2		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	84		102		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	75		79		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	88		93		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	64		64		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	71		62		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		95		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		92		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	95		96		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93		94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		103		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		91		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		77		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		93		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		105		58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		99		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		94		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		92		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		103		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1502082-3 WG1502082-4 QC Sample: L2126259-05 Client ID: MS Sample												
Perfluorooctanesulfonamide (FOSA)	ND	5.35	5.53F	103		4.47F	88		67-137	21		30

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	64		71		10-117

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1502082-5 WG1502082-6 QC Sample: L2126736-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	4.56	4.44	97		4.47	97		71-135	1		30
Perfluoropentanoic Acid (PFPeA)	ND	4.56	4.40	97		4.50	98		69-132	2		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.05	3.86	95		3.92	96		72-128	2		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.27	4.24	99		4.50	104		62-145	6		30
Perfluorohexanoic Acid (PFHxA)	ND	4.56	4.52	99		4.54	99		70-132	0		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.28	3.98	93		4.19	97		73-123	5		30
Perfluoroheptanoic Acid (PFHpA)	ND	4.56	4.43	97		4.53	98		71-131	2		30
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	ND	0.789	0.712	90		0.745	93		67-130	5		30
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	ND	3.37	3.22	95		3.36	99		67-130	4		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.17	3.93	94		4.11	98		67-130	4		30
Perfluorooctanoic Acid-Branched (br-PFOA)	ND	0.0000000912	ND	**0**	Q	ND	**0**	Q	69-133	NC		30
Perfluorooctanoic Acid-Linear (L-PFOA)	ND	4.56	4.35	95		4.46	97		69-133	2		30
Perfluorooctanoic Acid (PFOA)	ND	4.56	4.35	95		4.46	97		69-133	2		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.34	4.91	113		4.75	108		64-140	3		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.34	4.44	102		4.23	96		70-132	5		30
Perfluorononanoic Acid (PFNA)	ND	4.56	4.32	95		4.42	96		72-129	2		30
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	ND	0.892	0.863	97		0.862	96		68-136	0		30
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	ND	3.34	3.28	98		3.26	97		68-136	1		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.23	4.14	98		4.12	96		68-136	0		30
Perfluorodecanoic Acid (PFDA)	ND	4.56	4.31	95		4.46	97		69-133	3		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.38	4.76	109		4.44	100		65-137	7		30
Perfluorononanesulfonic Acid (PFNS)	ND	4.38	4.39	100		4.50	101		69-125	2		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1502082-5 WG1502082-6 QC Sample: L2126736-01 Client ID: MS Sample												
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NMeFOSAA)	ND	0.0000000912	ND	**0**	Q	ND	**0**	Q	63-144	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NMeFOSAA)	ND	4.56	9.50	**208**	Q	4.87	106		63-144	**64**	Q	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	4.56	9.50	**208**	Q	4.87	106		63-144	**64**	Q	30
Perfluoroundecanoic Acid (PFUnA)	ND	4.56	4.46	98		4.41	96		64-136	1		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.4	4.32	98		4.28	96		59-134	1		30
Perfluorooctanesulfonamide (FOSA)	ND	4.56	4.07	89		4.44	96		67-137	9		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NEtFOSAA)	ND	0.0000000912	ND	**0**	Q	ND	**0**	Q	61-139	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NEtFOSAA)	ND	4.56	10.8	**237**	Q	7.04	**153**	Q	61-139	**42**	Q	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	4.56	10.8	**237**	Q	7.04	**153**	Q	61-139	**42**	Q	30
Perfluorododecanoic Acid (PFDoA)	ND	4.56	4.45	98		4.73	103		69-135	6		30
Perfluorotridecanoic Acid (PFTrDA)	ND	4.56	4.37	96		4.38	95		66-139	0		30
Perfluorotetradecanoic Acid (PFTA)	ND	4.56	4.61	101		4.74	103		69-133	3		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	58		73		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	69		72		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	71		81		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**2**	Q	**4**	Q	34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**2**	Q	**5**	Q	31-134

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1502082-5 WG1502082-6 QC Sample: L2126736-01 Client ID: MS Sample												

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	65		69		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**62**	Q	**64**	Q	75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**62**	Q	**65**	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**65**	Q	**67**	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	**77**	Q	79		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	61		65		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	44		50		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	**58**	Q	62		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	65		69		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	47		39		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**74**	Q	80		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**62**	Q	**66**	Q	75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**60**	Q	**63**	Q	72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	77		82		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 QC Batch ID: WG1505612-6 WG1505612-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
Acenaphthene	ND	1570	1100	70		1600	100		31-137	37		50
1,2,4-Trichlorobenzene	ND	1570	1000	64		1500	97		38-107	40		50
Hexachlorobenzene	ND	1570	1000	64		1600	100		40-140	46		50
Bis(2-chloroethyl)ether	ND	1570	980	62		1400	90		40-140	35		50
2-Chloronaphthalene	ND	1570	1100	70		1600	100		40-140	37		50
1,2-Dichlorobenzene	ND	1570	990	63		1400	90		40-140	34		50
1,3-Dichlorobenzene	ND	1570	980	62		1400	90		40-140	35		50
1,4-Dichlorobenzene	ND	1570	980	62		1400	90		28-104	35		50
3,3'-Dichlorobenzidine	ND	1570	1100	70		1600	100		40-140	37		50
2,4-Dinitrotoluene	ND	1570	520	**33**	Q	940	61		40-132	**58**	Q	50
2,6-Dinitrotoluene	ND	1570	610	**39**	Q	1100	71		40-140	**57**	Q	50
Fluoranthene	310	1570	1200	57		1900	100		40-140	45		50
4-Chlorophenyl phenyl ether	ND	1570	1100	70		1700	110		40-140	43		50
4-Bromophenyl phenyl ether	ND	1570	1100	70		1700	110		40-140	43		50
Bis(2-chloroisopropyl)ether	ND	1570	1600	100		2200	140		40-140	32		50
Bis(2-chloroethoxy)methane	ND	1570	1000	64		1400	90		40-117	33		50
Hexachlorobutadiene	ND	1570	1100	70		1600	100		40-140	37		50
Hexachlorocyclopentadiene	ND	1570	ND	**0**	Q	210J	**14**	Q	40-140	NC		50
Hexachloroethane	ND	1570	670	43		1000	64		40-140	40		50
Isophorone	ND	1570	1000	64		1400	90		40-140	33		50
Naphthalene	24J	1570	1100	70		1600	100		40-140	37		50
Nitrobenzene	ND	1570	1200	76		1700	110		40-140	34		50
NDPA/DPA	ND	1570	1100	70		1700	110		36-157	43		50

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 QC Batch ID: WG1505612-6 WG1505612-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
n-Nitrosodi-n-propylamine	ND	1570	1100	70		1600	100		32-121	37		50
Bis(2-ethylhexyl)phthalate	ND	1570	1500	96		2100	140		40-140	33		50
Butyl benzyl phthalate	ND	1570	1200	76		1800	120		40-140	40		50
Di-n-butylphthalate	ND	1570	1200	76		1700	110		40-140	34		50
Di-n-octylphthalate	ND	1570	1400	89		2100	140		40-140	40		50
Diethyl phthalate	ND	1570	1100	70		1700	110		40-140	43		50
Dimethyl phthalate	ND	1570	1000	64		1500	97		40-140	40		50
Benzo(a)anthracene	160	1570	1200	66		1800	110		40-140	40		50
Benzo(a)pyrene	140J	1570	1200	76		1800	120		40-140	40		50
Benzo(b)fluoranthene	150	1570	1200	67		1800	110		40-140	40		50
Benzo(k)fluoranthene	56J	1570	1200	76		1800	120		40-140	40		50
Chrysene	150	1570	1200	67		1800	110		40-140	40		50
Acenaphthylene	ND	1570	1100	70		1600	100		40-140	37		50
Anthracene	41J	1570	1100	70		1600	100		40-140	37		50
Benzo(ghi)perylene	64J	1570	860	55		1200	77		40-140	33		50
Fluorene	ND	1570	1100	70		1700	110		40-140	43		50
Phenanthrene	150	1570	1100	60		1700	100		40-140	43		50
Dibenzo(a,h)anthracene	ND	1570	860	55		1300	84		40-140	41		50
Indeno(1,2,3-cd)pyrene	70J	1570	870	55		1400	90		40-140	47		50
Pyrene	270	1570	1200	59		1800	99		35-142	40		50
Biphenyl	ND	1570	1000	64		1500	97		37-127	40		50
4-Chloroaniline	ND	1570	1100	70		1200	77		40-140	9		50
2-Nitroaniline	ND	1570	1200	76		1900	120		47-134	45		50

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 QC Batch ID: WG1505612-6 WG1505612-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
3-Nitroaniline	ND	1570	1300	83		2000	**130**	Q	26-129	42		50
4-Nitroaniline	ND	1570	1300	83		1900	120		41-125	38		50
Dibenzofuran	ND	1570	1100	70		1700	110		40-140	43		50
2-Methylnaphthalene	ND	1570	1100	70		1600	100		40-140	37		50
1,2,4,5-Tetrachlorobenzene	ND	1570	1000	64		1600	100		40-117	46		50
Acetophenone	ND	1570	1000	64		1400	90		14-144	33		50
2,4,6-Trichlorophenol	ND	1570	1200	76		1800	120		30-130	40		50
p-Chloro-m-cresol	ND	1570	1200	76		1900	**120**	Q	26-103	45		50
2-Chlorophenol	ND	1570	1100	70		1600	100		25-102	37		50
2,4-Dichlorophenol	ND	1570	1200	76		1700	110		30-130	34		50
2,4-Dimethylphenol	ND	1570	1100	70		1600	100		30-130	37		50
2-Nitrophenol	ND	1570	360J	**23**	Q	740	48		30-130	**69**	Q	50
4-Nitrophenol	ND	1570	880	56		1500	97		11-114	**52**	Q	50
2,4-Dinitrophenol	ND	1570	ND	**0**	Q	ND	**0**	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1570	ND	**0**	Q	ND	**0**	Q	10-130	NC		50
Pentachlorophenol	ND	1570	920	59		1500	97		17-109	48		50
Phenol	ND	1570	1000	64		1500	**97**	Q	26-90	40		50
2-Methylphenol	ND	1570	1100	70		1600	100		30-130.	37		50
3-Methylphenol/4-Methylphenol	ND	1570	1100	70		1600	100		30-130	37		50
2,4,5-Trichlorophenol	ND	1570	1200	76		1800	120		30-130	40		50
Benzoic Acid	ND	1570	ND	**0**	Q	ND	**0**	Q	10-110	NC		50
Benzyl Alcohol	ND	1570	1100	70		1600	100		40-140	37		50
Carbazole	ND	1570	1100	70		1700	110		54-128	43		50

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04-05,07,09-10 QC Batch ID: WG1505612-6 WG1505612-7 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)												
1,4-Dioxane	ND	1570	700	45		940	61		40-140	29		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	70		106		10-136
2-Fluorobiphenyl	70		98		30-120
2-Fluorophenol	75		109		25-120
4-Terphenyl-d14	63		88		18-120
Nitrobenzene-d5	74		107		23-120
Phenol-d6	68		100		10-120

PCBS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05
Client ID: 7-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 09:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/31/21 18:40
Analyst: JM
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:44
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	45.0	3.99	1	A
Aroclor 1221	ND		ug/kg	45.0	4.50	1	A
Aroclor 1232	ND		ug/kg	45.0	9.53	1	A
Aroclor 1242	ND		ug/kg	45.0	6.06	1	A
Aroclor 1248	ND		ug/kg	45.0	6.74	1	A
Aroclor 1254	ND		ug/kg	45.0	4.92	1	A
Aroclor 1260	ND		ug/kg	45.0	8.31	1	A
Aroclor 1262	ND		ug/kg	45.0	5.71	1	A
Aroclor 1268	ND		ug/kg	45.0	4.66	1	A
PCBs, Total	ND		ug/kg	45.0	3.99	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/31/21 18:25
Analyst: JM
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:44
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.5	3.33	1	A
Aroclor 1221	ND		ug/kg	37.5	3.76	1	A
Aroclor 1232	ND		ug/kg	37.5	7.94	1	A
Aroclor 1242	ND		ug/kg	37.5	5.05	1	A
Aroclor 1248	ND		ug/kg	37.5	5.62	1	A
Aroclor 1254	ND		ug/kg	37.5	4.10	1	A
Aroclor 1260	ND		ug/kg	37.5	6.93	1	A
Aroclor 1262	ND		ug/kg	37.5	4.76	1	A
Aroclor 1268	ND		ug/kg	37.5	3.88	1	A
PCBs, Total	ND		ug/kg	37.5	3.33	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	125		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10
Client ID: 3-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 14:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/31/21 18:33
Analyst: JM
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:44
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	3.28	1	A
Aroclor 1221	ND		ug/kg	37.0	3.70	1	A
Aroclor 1232	ND		ug/kg	37.0	7.84	1	A
Aroclor 1242	ND		ug/kg	37.0	4.98	1	A
Aroclor 1248	ND		ug/kg	37.0	5.55	1	A
Aroclor 1254	ND		ug/kg	37.0	4.04	1	A
Aroclor 1260	ND		ug/kg	37.0	6.83	1	A
Aroclor 1262	ND		ug/kg	37.0	4.70	1	A
Aroclor 1268	ND		ug/kg	37.0	3.83	1	A
PCBs, Total	ND		ug/kg	37.0	3.28	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/31/21 17:50
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:32
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 05,07,10 Batch: WG1505611-1						
Aroclor 1016	ND		ug/kg	31.9	2.83	A
Aroclor 1221	ND		ug/kg	31.9	3.20	A
Aroclor 1232	ND		ug/kg	31.9	6.76	A
Aroclor 1242	ND		ug/kg	31.9	4.30	A
Aroclor 1248	ND		ug/kg	31.9	4.79	A
Aroclor 1254	ND		ug/kg	31.9	3.49	A
Aroclor 1260	ND		ug/kg	31.9	5.90	A
Aroclor 1262	ND		ug/kg	31.9	4.05	A
Aroclor 1268	ND		ug/kg	31.9	3.30	A
PCBs, Total	ND		ug/kg	31.9	2.83	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	61		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 05,07,10 Batch: WG1505611-2 WG1505611-3									
Aroclor 1016	87		78		40-140	11		50	A
Aroclor 1260	71		66		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		72		30-150	A
Decachlorobiphenyl	61		56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		76		30-150	B
Decachlorobiphenyl	61		56		30-150	B

PESTICIDES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05
Client ID: 7-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 09:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/01/21 14:11
Analyst: AR
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/01/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.09	0.410	1	B
Lindane	ND		ug/kg	0.872	0.390	1	B
Alpha-BHC	ND		ug/kg	0.872	0.248	1	B
Beta-BHC	ND		ug/kg	2.09	0.793	1	B
Heptachlor	ND		ug/kg	1.05	0.469	1	B
Aldrin	ND		ug/kg	2.09	0.737	1	B
Heptachlor epoxide	ND		ug/kg	3.92	1.18	1	B
Endrin	ND		ug/kg	0.872	0.357	1	B
Endrin aldehyde	ND		ug/kg	2.62	0.915	1	B
Endrin ketone	ND		ug/kg	2.09	0.539	1	B
Dieldrin	ND		ug/kg	1.31	0.654	1	B
4,4'-DDE	ND		ug/kg	2.09	0.484	1	B
4,4'-DDD	ND		ug/kg	2.09	0.746	1	B
4,4'-DDT	4.76	P	ug/kg	3.92	1.68	1	B
Endosulfan I	ND		ug/kg	2.09	0.494	1	B
Endosulfan II	ND		ug/kg	2.09	0.699	1	B
Endosulfan sulfate	ND		ug/kg	0.872	0.415	1	B
Methoxychlor	ND		ug/kg	3.92	1.22	1	B
Toxaphene	ND		ug/kg	39.2	11.0	1	B
cis-Chlordane	ND		ug/kg	2.62	0.729	1	B
trans-Chlordane	ND		ug/kg	2.62	0.690	1	B
Chlordane	ND		ug/kg	17.4	6.93	1	B

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05 Date Collected: 05/19/21 09:45

Client ID: 7-B2 (6.5-7) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**20**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/01/21 14:00
Analyst: AR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/01/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.88	0.369	1	B
Lindane	ND		ug/kg	0.786	0.351	1	B
Alpha-BHC	ND		ug/kg	0.786	0.223	1	B
Beta-BHC	ND		ug/kg	1.88	0.715	1	B
Heptachlor	ND		ug/kg	0.943	0.423	1	B
Aldrin	ND		ug/kg	1.88	0.664	1	B
Heptachlor epoxide	ND		ug/kg	3.54	1.06	1	B
Endrin	ND		ug/kg	0.786	0.322	1	B
Endrin aldehyde	ND		ug/kg	2.36	0.825	1	B
Endrin ketone	ND		ug/kg	1.88	0.485	1	B
Dieldrin	4.49	P	ug/kg	1.18	0.589	1	B
4,4'-DDE	6.69	P	ug/kg	1.88	0.436	1	B
4,4'-DDD	8.24	P	ug/kg	1.88	0.672	1	B
4,4'-DDT	ND		ug/kg	3.54	1.52	1	B
Endosulfan I	ND		ug/kg	1.88	0.445	1	B
Endosulfan II	ND		ug/kg	1.88	0.630	1	B
Endosulfan sulfate	ND		ug/kg	0.786	0.374	1	B
Methoxychlor	ND		ug/kg	3.54	1.10	1	B
Toxaphene	ND		ug/kg	35.4	9.90	1	B
cis-Chlordane	ND		ug/kg	2.36	0.657	1	B
trans-Chlordane	ND		ug/kg	2.36	0.622	1	B
Chlordane	ND		ug/kg	15.7	6.24	1	B

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07 Date Collected: 05/19/21 11:15

Client ID: 7-B1 (9-10) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**13**	Q	30-150	A
Decachlorobiphenyl	**1**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10
Client ID: 3-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 14:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/01/21 14:22
Analyst: AR
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/01/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.730	0.326	1	A
Alpha-BHC	ND		ug/kg	0.730	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.664	1	A
Heptachlor	ND		ug/kg	0.876	0.393	1	A
Aldrin	ND		ug/kg	1.75	0.617	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.986	1	A
Endrin	ND		ug/kg	0.730	0.299	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.767	1	A
Endrin ketone	ND		ug/kg	1.75	0.451	1	A
Dieldrin	ND		ug/kg	1.10	0.548	1	A
4,4'-DDE	ND		ug/kg	1.75	0.405	1	A
4,4'-DDD	ND		ug/kg	1.75	0.625	1	A
4,4'-DDT	ND		ug/kg	3.29	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.586	1	A
Endosulfan sulfate	ND		ug/kg	0.730	0.348	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.20	1	A
cis-Chlordane	ND		ug/kg	2.19	0.610	1	A
trans-Chlordane	ND		ug/kg	2.19	0.578	1	A
Chlordane	ND		ug/kg	14.6	5.80	1	A

Project Name: AVANT GARDNER **Lab Number:** L2126605

Project Number: 17244793 **Report Date:** 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10 Date Collected: 05/19/21 14:00

Client ID: 3-B1 (7.5-8) Date Received: 05/20/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/01/21 11:07
Analyst: JMC

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/01/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05,07,10 Batch: WG1505609-1						
Delta-BHC	ND		ug/kg	1.50	0.295	A
Lindane	ND		ug/kg	0.627	0.280	A
Alpha-BHC	ND		ug/kg	0.627	0.178	A
Beta-BHC	ND		ug/kg	1.50	0.570	A
Heptachlor	ND		ug/kg	0.752	0.337	A
Aldrin	ND		ug/kg	1.50	0.530	A
Heptachlor epoxide	ND		ug/kg	2.82	0.846	A
Endrin	ND		ug/kg	0.627	0.257	A
Endrin aldehyde	ND		ug/kg	1.88	0.658	A
Endrin ketone	ND		ug/kg	1.50	0.387	A
Dieldrin	ND		ug/kg	0.940	0.470	A
4,4'-DDE	ND		ug/kg	1.50	0.348	A
4,4'-DDD	ND		ug/kg	1.50	0.537	A
4,4'-DDT	ND		ug/kg	2.82	1.21	A
Endosulfan I	ND		ug/kg	1.50	0.355	A
Endosulfan II	ND		ug/kg	1.50	0.503	A
Endosulfan sulfate	ND		ug/kg	0.627	0.298	A
Methoxychlor	ND		ug/kg	2.82	0.878	A
Toxaphene	ND		ug/kg	28.2	7.90	A
cis-Chlordane	ND		ug/kg	1.88	0.524	A
trans-Chlordane	ND		ug/kg	1.88	0.496	A
Chlordane	ND		ug/kg	12.5	4.98	A

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/01/21 11:07
Analyst: JMC

Extraction Method: EPA 3546
Extraction Date: 05/31/21 00:00
Cleanup Method: EPA 3620B
Cleanup Date: 06/01/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05,07,10 Batch: WG1505609-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	70		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05,07,10 Batch: WG1505609-2 WG1505609-3									
Delta-BHC	87		105		30-150	19		30	A
Lindane	83		101		30-150	20		30	A
Alpha-BHC	87		106		30-150	20		30	A
Beta-BHC	88		97		30-150	10		30	A
Heptachlor	86		104		30-150	19		30	A
Aldrin	85		106		30-150	22		30	A
Heptachlor epoxide	80		100		30-150	22		30	A
Endrin	85		106		30-150	22		30	A
Endrin aldehyde	68		79		30-150	15		30	A
Endrin ketone	80		102		30-150	24		30	A
Dieldrin	89		112		30-150	23		30	A
4,4'-DDE	86		109		30-150	24		30	A
4,4'-DDD	92		115		30-150	22		30	A
4,4'-DDT	97		120		30-150	21		30	A
Endosulfan I	82		103		30-150	23		30	A
Endosulfan II	85		105		30-150	21		30	A
Endosulfan sulfate	68		82		30-150	19		30	A
Methoxychlor	94		112		30-150	17		30	A
cis-Chlordane	77		95		30-150	21		30	A
trans-Chlordane	80		99		30-150	21		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05,07,10 Batch: WG1505609-2 WG1505609-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		101		30-150	A
Decachlorobiphenyl	79		90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		91		30-150	B
Decachlorobiphenyl	71		82		30-150	B

METALS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05
Client ID: 7-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 09:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Total Metals - Mansfield Lab

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Aluminum, Total	4510		mg/kg	10.4	2.81	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	5.20	0.395	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Arsenic, Total	3.48		mg/kg	1.04	0.216	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Barium, Total	52.5		mg/kg	1.04	0.181	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Beryllium, Total	0.270	J	mg/kg	0.520	0.034	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Cadmium, Total	0.375	J	mg/kg	1.04	0.102	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Calcium, Total	76000		mg/kg	10.4	3.64	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Chromium, Total	31.6		mg/kg	1.04	0.100	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Cobalt, Total	5.64		mg/kg	2.08	0.173	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Copper, Total	25.8		mg/kg	1.04	0.268	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Iron, Total	12300		mg/kg	5.20	0.940	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Lead, Total	30.1		mg/kg	5.20	0.279	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Magnesium, Total	17400		mg/kg	10.4	1.60	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Manganese, Total	177		mg/kg	1.04	0.165	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Mercury, Total	0.190		mg/kg	0.086	0.056	1	05/29/21 08:55	06/01/21 19:46	EPA 7471B	1,7471B	OU
Nickel, Total	9.86		mg/kg	2.60	0.252	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Potassium, Total	905		mg/kg	260	15.0	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Selenium, Total	1.16	J	mg/kg	2.08	0.268	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	1.04	0.294	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Sodium, Total	464		mg/kg	208	3.28	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	2.08	0.328	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Vanadium, Total	31.7		mg/kg	1.04	0.211	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV
Zinc, Total	60.3		mg/kg	5.20	0.305	2	05/29/21 07:00	06/03/21 18:48	EPA 3050B	1,6010D	BV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8940		mg/kg	9.37	2.53	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Antimony, Total	3.87	J	mg/kg	4.68	0.356	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Arsenic, Total	2.58		mg/kg	0.937	0.195	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Barium, Total	52.3		mg/kg	0.937	0.163	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Beryllium, Total	0.534		mg/kg	0.468	0.031	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Cadmium, Total	0.450	J	mg/kg	0.937	0.092	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Calcium, Total	2380		mg/kg	9.37	3.28	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Chromium, Total	35.8		mg/kg	0.937	0.090	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Cobalt, Total	7.21		mg/kg	1.87	0.155	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Copper, Total	53.3		mg/kg	0.937	0.242	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Iron, Total	16400		mg/kg	4.68	0.846	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Lead, Total	59.9		mg/kg	4.68	0.251	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Magnesium, Total	1950		mg/kg	9.37	1.44	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Manganese, Total	387		mg/kg	0.937	0.149	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Mercury, Total	0.984		mg/kg	0.075	0.049	1	05/29/21 08:55	06/01/21 19:49	EPA 7471B	1,7471B	OU
Nickel, Total	16.2		mg/kg	2.34	0.227	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Potassium, Total	2760		mg/kg	234	13.5	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Selenium, Total	0.852	J	mg/kg	1.87	0.242	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.937	0.265	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Sodium, Total	634		mg/kg	187	2.95	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.87	0.295	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Vanadium, Total	17.4		mg/kg	0.937	0.190	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV
Zinc, Total	248		mg/kg	4.68	0.274	2	05/29/21 07:00	06/03/21 18:53	EPA 3050B	1,6010D	BV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10
Client ID: 3-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/19/21 14:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6170		mg/kg	8.93	2.41	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Antimony, Total	0.357	J	mg/kg	4.47	0.339	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Arsenic, Total	3.19		mg/kg	0.893	0.186	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Barium, Total	60.3		mg/kg	0.893	0.155	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Beryllium, Total	0.330	J	mg/kg	0.447	0.030	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Cadmium, Total	0.268	J	mg/kg	0.893	0.088	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Calcium, Total	1060		mg/kg	8.93	3.13	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Chromium, Total	19.7		mg/kg	0.893	0.086	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Cobalt, Total	5.53		mg/kg	1.79	0.148	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Copper, Total	15.0		mg/kg	0.893	0.230	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Iron, Total	12600		mg/kg	4.47	0.807	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Lead, Total	78.2		mg/kg	4.47	0.239	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Magnesium, Total	1890		mg/kg	8.93	1.38	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Manganese, Total	122		mg/kg	0.893	0.142	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Mercury, Total	0.522		mg/kg	0.072	0.047	1	05/29/21 08:55	06/01/21 19:52	EPA 7471B	1,7471B	OU
Nickel, Total	10.6		mg/kg	2.23	0.216	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Potassium, Total	547		mg/kg	223	12.9	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Selenium, Total	0.474	J	mg/kg	1.79	0.230	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.893	0.253	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Sodium, Total	63.9	J	mg/kg	179	2.81	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.79	0.281	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Vanadium, Total	20.3		mg/kg	0.893	0.181	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV
Zinc, Total	38.4		mg/kg	4.47	0.262	2	05/29/21 07:00	06/03/21 18:57	EPA 3050B	1,6010D	BV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05,07,10 Batch: WG1505095-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Barium, Total	ND		mg/kg	0.400	0.070	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Copper, Total	ND		mg/kg	0.400	0.103	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Iron, Total	1.03	J	mg/kg	2.00	0.361	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Lead, Total	ND		mg/kg	2.00	0.107	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Manganese, Total	0.080	J	mg/kg	0.400	0.064	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Potassium, Total	ND		mg/kg	100	5.76	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Silver, Total	ND		mg/kg	0.400	0.113	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Sodium, Total	1.36	J	mg/kg	80.0	1.26	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/29/21 07:00	06/02/21 17:44	1,6010D	BV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05,07,10 Batch: WG1505096-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/29/21 08:55	06/01/21 19:19	1,7471B	OU

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,07,10 Batch: WG1505095-2 SRM Lot Number: D109-540								
Aluminum, Total	77		-		50-150	-		
Antimony, Total	141		-		19-250	-		
Arsenic, Total	117		-		70-130	-		
Barium, Total	105		-		75-125	-		
Beryllium, Total	112		-		75-125	-		
Cadmium, Total	117		-		75-125	-		
Calcium, Total	108		-		73-128	-		
Chromium, Total	112		-		70-130	-		
Cobalt, Total	114		-		75-125	-		
Copper, Total	116		-		75-125	-		
Iron, Total	103		-		35-165	-		
Lead, Total	112		-		72-128	-		
Magnesium, Total	98		-		62-138	-		
Manganese, Total	117		-		74-126	-		
Nickel, Total	115		-		70-130	-		
Potassium, Total	96		-		59-141	-		
Selenium, Total	118		-		68-132	-		
Silver, Total	115		-		68-131	-		
Sodium, Total	106		-		35-165	-		
Thallium, Total	118		-		68-131	-		
Vanadium, Total	109		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,07,10 Batch: WG1505095-2 SRM Lot Number: D109-540					
Zinc, Total	113	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 05,07,10 Batch: WG1505096-2 SRM Lot Number: D109-540					
Mercury, Total	104	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1505095-3 WG1505095-4 QC Sample: L2126802-04 Client ID: MS Sample												
Aluminum, Total	7590	176	10800	**1830**	Q	9870	**1350**	Q	75-125	9		20
Antimony, Total	ND	43.9	34.8	79		31.2	**74**	Q	75-125	11		20
Arsenic, Total	5.52	10.5	18.4	122		16.6	109		75-125	10		20
Barium, Total	499	176	623	**70**	Q	532	**20**	Q	75-125	16		20
Beryllium, Total	0.319J	4.39	5.52	**126**	Q	5.06	120		75-125	9		20
Cadmium, Total	1.01	4.48	5.80	107		5.31	100		75-125	9		20
Calcium, Total	17400	878	13800	**0**	Q	14500	**0**	Q	75-125	5		20
Chromium, Total	20.9	17.6	46.4	**145**	Q	43.4	**133**	Q	75-125	7		20
Cobalt, Total	5.82	43.9	52.7	107		48.1	100		75-125	9		20
Copper, Total	32.7	22	68.6	**163**	Q	67.0	**162**	Q	75-125	2		20
Iron, Total	13800	87.8	17400	**4100**	Q	16000	**2610**	Q	75-125	8		20
Lead, Total	741	44.8	761	**45**	Q	710	**0**	Q	75-125	7		20
Magnesium, Total	2510	878	4130	**184**	Q	3880	**162**	Q	75-125	6		20
Manganese, Total	274	43.9	419	**330**	Q	335	**144**	Q	75-125	**22**	Q	20
Nickel, Total	13.4	43.9	60.8	108		55.6	100		75-125	9		20
Potassium, Total	498	878	1630	**129**	Q	1490	118		75-125	9		20
Selenium, Total	1.04J	10.5	12.0	114		10.8	107		75-125	11		20
Silver, Total	ND	26.4	32.0	121		30.4	120		75-125	5		20
Sodium, Total	731	878	1820	124		1690	114		75-125	7		20
Thallium, Total	ND	10.5	9.64	91		9.22	91		75-125	4		20
Vanadium, Total	22.7	43.9	77.3	124		71.4	115		75-125	8		20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1505095-3 WG1505095-4 QC Sample: L2126802-04 Client ID: MS Sample										
Zinc, Total	410	43.9	492	**187**	Q	442	76	75-125	11	20
Total Metals - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1505096-3 WG1505096-4 QC Sample: L2126802-04 Client ID: MS Sample										
Mercury, Total	0.694	0.142	0.818	87		0.851	112	80-120	4	20

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2126605
Report Date: 06/11/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,07,10 QC Batch ID: WG1505095-6 QC Sample: L2126802-04 Client ID: DUP Sample						
Aluminum, Total	7590	8160	mg/kg	8		20
Barium, Total	499	531	mg/kg	6		20
Calcium, Total	17400	19000	mg/kg	9		20
Copper, Total	32.7	35.7	mg/kg	9		20
Iron, Total	13800	15200	mg/kg	10		20
Lead, Total	741	827	mg/kg	12		20
Magnesium, Total	2510	2880	mg/kg	15		20
Manganese, Total	274	304	mg/kg	11		20
Vanadium, Total	22.7	24.5	mg/kg	8		20
Zinc, Total	410	458	mg/kg	12		20

INORGANICS
&
MISCELLANEOUS

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-02
Client ID: 10-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 08:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.7		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-03
Client ID: 10-B1 (22-22.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 08:40
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-04
Client ID: DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 08:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-05
Client ID: 7-B2 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/19/21 09:45
Date Received: 05/20/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.3		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-06
Client ID: 7-B2 (14-14.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/19/21 10:00
Date Received: 05/20/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	46.1		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-07
Client ID: 7-B1 (9-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/19/21 11:15
Date Received: 05/20/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-08
Client ID: 7-B1 (27-27.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/19/21 11:50
Date Received: 05/20/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.1		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-09
Client ID: 7-B3 (10.5-11.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 13:20
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-10
Client ID: 3-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 14:00
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.5		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

SAMPLE RESULTS

Lab ID: L2126605-11
Client ID: 3-B1 (17.5-18)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/19/21 14:45
Date Received: 05/20/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	30.7		%	0.100	NA	1	-	05/21/21 09:12	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126605

Report Date: 06/11/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-11 QC Batch ID: WG1501908-1 QC Sample: L2126605-02 Client ID: 10-B1 (8.5-9)						
Solids, Total	83.7	84.0	%	0		20

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126605-01A	Plastic 250ml unpreserved	B	NA		5.2	Y	Absent		CANCELLED()
L2126605-02A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02A1	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02A2	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02B1	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02B2	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02C1	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02C2	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-02D1	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-02D2	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-02E	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L2126605-02E1	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L2126605-02E2	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L2126605-02X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02X1	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02X2	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-02Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-02Y1	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-02Y2	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126605-02Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-02Z1	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-02Z2	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-03A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-03B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-03C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-03D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-03X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-03Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-03Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-04A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-04B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-04C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-04D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-04E	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L2126605-04X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-04Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-04Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-05A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-05B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-05C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-05D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-05D1	Plastic 2oz unpreserved for TS	B	NA		5.2	Y	Absent		TS(7)
L2126605-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2126605-05F	Plastic 8oz unpreserved	B	NA		5.2	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126605-05G	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2126605-05X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-05Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-05Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-06A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-06B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-06C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-06D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-06X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-06Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-06Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-07A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-07B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-07C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-07D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-07D1	Plastic 2oz unpreserved for TS	B	NA		5.2	Y	Absent		TS(7)
L2126605-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2126605-07F	Plastic 8oz unpreserved	B	NA		5.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2126605-07G	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2126605-07X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-07Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-07Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-08A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-08B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-08C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126605-08D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-08X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-08Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-08Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-09A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2126605-09B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2126605-09C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2126605-09D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-09E	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14)
L2126605-09X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2126605-09Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2126605-09Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2126605-10A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-10B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-10C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-10D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-10D1	Plastic 2oz unpreserved for TS	B	NA		5.2	Y	Absent		TS(7)
L2126605-10E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2126605-10F	Plastic 8oz unpreserved	B	NA		5.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2126605-10G	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2126605-10X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-10Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-10Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-11A	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-11B	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126605
Report Date: 06/11/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126605-11C	5 gram Encore Sampler	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-11D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L2126605-11X	Vial MeOH preserved split	A	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2126605-11Y	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)
L2126605-11Z	Vial Water preserved split	A	NA		3.2	Y	Absent	21-MAY-21 04:58	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126605
Report Date: 06/11/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	AVANT GARDNER	**Lab Number:**	L2126605
Project Number:	17244793	**Report Date:**	06/11/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2126605
Project Number:	17244793	**Report Date:**	06/11/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2126605
Project Number:	17244793	**Report Date:**	06/11/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Project Name:	AVANT GARDNER	**Lab Number:**	L2126605
Project Number:	17244793	**Report Date:**	06/11/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 5/21/21

ALPHA Job #: L2126605

Client Information
Client: PSG (partnersinc.com)
Address: 611 Industrial Way West
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLENTE partnersinc.com

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project #: 17243313
(Use Project name as Project #) [X]
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables
- [ ] ASP-A
- [ ] ASP-B
- [X] EQuIS (1 File)
- [X] EQuIS (4 File)
- [ ] Other

Regulatory Requirement
- [X] NY TOGS
- [ ] NY Part 375
- [X] AWQ Standards
- [X] NY CP-51
- [X] NY Restricted Use
- [ ] Other
- [X] NY Unrestricted Use
- [ ] NYC Sewer Discharge

Billing Information
- [X] Same as Client Info

PO # 17243313

Disposal Site Information
Please identify below location of applicable disposal facilities.

Disposal Facility:
- [ ] NJ
- [ ] NY
- [ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL. TAL

ANALYSIS

Sample Filtration
- [ ] Done
- [ ] Lab to do

Preservation
- [ ] Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs (8260)	SVOCs (8270)	TAL metals	PCBs	pesticides	PFAs	1,4 Dioxane	Total Bottle	Sample Specific Comments
26605-01	Field Blank	5-19-21	1400	-	AH						X	-		
-02	10-B1 (8.5-9)		800	S	AH	X	X							
-03	10-B1 (22-22.5)		840	S	AH	X								
-04	DUP		800	S	AH	X	X							
-02	MS		800	S	AH	X	X							
↓	MSD		800	S	AH	X	X							
-05	7-B2 (6.5-7)		945	S	AH	X	X	X	X	X	X	X		
-06	7-B2 (14-14.5)		1000	S	AH	X								
-07	7-B1 (9-10)		1115	S	AH	X	X	X	X	X	X	X		
-08	7-B1 (27-27.5)	↓	1150	S	AH	X								

Container Type: E | A | A | A | A | P | A
Preservative: A | A | A | A | A | A | A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5-19-21 1500		
	5/19/21 1735		5/20/21 1210
	5/21/21 0850		5/21/21 0850

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 5/21/21

ALPHA Job #: L2126605

Client Information

Client: PSG (partner)
Address: 611 Industrial Way W
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLENTE@partnereng.com

Project Information

Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project #: 1724-3313
(Use Project name as Project #): ☑
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☒ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO # 1724 3313

Regulatory Requirement

☒ NY TOGS ☐ NY Part 375
☒ AWQ Standards ☒ NY CP-51
☒ NY Restricted Use ☐ Other
☒ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL. TAL Metals.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs (8260)	SVOCs (8270)	TAL Metals	PCBs	Pesticides	PFAs	1,4-Dioxane	Total Bottle	Sample Specific Comments
26605-09	7-B3 (10.5-11.5)	5-19-21	1320	S	AH	X	X							
-10	3-B1 (7.5-8)	5-19-21	1400	S	AH	X	X	X	X	X	X	X		
-11	3-B1 (17.5-18)	5-19-21	1445	S	AH	X								

Container Type: E A A A A P A
Preservative: A A A B A A B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5-19 1500		5/20/21 12:16
	5/21/21 0053		5/21/21 00:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONSTITUTIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2126901
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER
Project Number:	17244793
Report Date:	06/28/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2126901-01	2-B1 (7.5-8)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 07:00	05/21/21
L2126901-02	2-B1 (24.5-25)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 07:35	05/21/21
L2126901-03	1-B1 (7.5-8.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 08:40	05/21/21
L2126901-04	1-B1 (24.5-25)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 09:15	05/21/21
L2126901-05	4-B1 (6.5-7)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 10:30	05/21/21
L2126901-06	4-B1 (24-24.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 11:00	05/21/21
L2126901-07	10-B2 (8.5-9)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 12:15	05/21/21
L2126901-08	10-B2 (34.5-35)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 13:00	05/21/21
L2126901-09	9-B1 (6-7)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 07:30	05/21/21
L2126901-10	9-B1 (8.5-9)	SOIL	140 STEWART AVE., BROOKLYN, NY	05/20/21 07:45	05/21/21

Project Name:	AVANT GARDNER	**Lab Number:**	L2126901
Project Number:	17244793	**Report Date:**	06/28/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	AVANT GARDNER	**Lab Number:**	L2126901
Project Number:	17244793	**Report Date:**	06/28/21

Case Narrative (continued)

Report Revision

June 28, 2021: All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

June 07, 2021: The project number has been amended.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2126901-07: The sample identified as "10-B2" on the chain of custody was identified as "10-B2 (8.5-9)" on the container label. At the client's request, the sample is reported as "10-B2 (8.5-9)".

Volatile Organics

L2126901-04: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (35%) and the surrogate recovery for 4-bromofluorobenzene (132%) were outside the acceptance criteria; however, re-analysis achieved a similar result: 1,4-dichlorobenzene-d4 (42%). The results of both analyses are reported.

L2126901-06: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (29%) and the surrogate recovery for 4-bromofluorobenzene (132%) were outside the acceptance criteria; however, re-analysis achieved similar results: 1,4-dichlorobenzene-d4 (26%) and 4-bromofluorobenzene (139%). The results of both analyses are reported.

Perfluorinated Alkyl Acids by Isotope Dilution

L2126901-05 and WG1502698-2: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2126901-05: The MeOH fraction of the extraction is reported for Perfluorooctanesulfonamide (FOSA) due to better extraction efficiency of the M8FOSA Surrogate (Extracted Internal Standard).

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Case Narrative (continued)

Total Metals

L2126901-03, -05, -07, and -09: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1504105-1 Method Blank, associated with L2126901-03, -05, -07, and -09, has concentrations above the reporting limits for calcium and iron. Since the associated sample concentrations are greater than 10x the blank concentrations for these analytes, no corrective action is required.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 06/28/21

ORGANICS

VOLATILES

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-01
Client ID: 2-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:00
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/25/21 19:23
Analyst: JC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.97	0.53	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	1.9	0.57	1
Vinyl chloride	ND		ug/kg	0.97	0.33	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-01 Date Collected: 05/20/21 07:00

Client ID: 2-B1 (7.5-8) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.89	1
Acetone	15		ug/kg	9.7	4.7	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	2.8	J	ug/kg	9.7	2.2	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.2	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.12	1
o-Chlorotoluene	ND		ug/kg	1.9	0.19	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.97	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.11	1
Naphthalene	ND		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-01 Date Collected: 05/20/21 07:00

Client ID: 2-B1 (7.5-8) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.97	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	78	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	0.21	J	ug/kg	1.9	0.19	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-02
Client ID: 2-B1 (24.5-25)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/20/21 07:35
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/25/21 20:02
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	0.22	J	ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-02 Date Collected: 05/20/21 07:35

Client ID: 2-B1 (24.5-25) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	1.8	J	ug/kg	2.2	0.61	1
o-Xylene	1.7		ug/kg	1.1	0.32	1
Xylenes, Total	3.5	J	ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	27		ug/kg	11	5.2	1
Carbon disulfide	4.9	J	ug/kg	11	4.9	1
2-Butanone	6.6	J	ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	0.36	J	ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	120		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-02 Date Collected: 05/20/21 07:35

Client ID: 2-B1 (24.5-25) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	0.46	J	ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	1.1	J	ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	87	38.	1
p-Diethylbenzene	0.28	J	ug/kg	2.2	0.19	1
p-Ethyltoluene	0.55	J	ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	0.54	J	ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03
Client ID: 1-B1 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 08:40
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/26/21 04:36
Analyst: JC
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.89	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	2.8		ug/kg	0.64	0.21	1
Toluene	1.1	J	ug/kg	1.3	0.70	1
Ethylbenzene	0.87	J	ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.6	0.74	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03 Date Collected: 05/20/21 08:40

Client ID: 1-B1 (7.5-8.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.64	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	3.9		ug/kg	2.6	0.72	1
o-Xylene	1.0	J	ug/kg	1.3	0.37	1
Xylenes, Total	4.9	J	ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	42		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	12	J	ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	6.2		ug/kg	1.3	0.21	1
sec-Butylbenzene	3.5		ug/kg	1.3	0.19	1
tert-Butylbenzene	10		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.24	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.22	1
Isopropylbenzene	3.7		ug/kg	1.3	0.14	1
p-Isopropyltoluene	5.7		ug/kg	1.3	0.14	1
Naphthalene	100		ug/kg	5.1	0.83	1
Acrylonitrile	ND		ug/kg	5.1	1.5	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03 Date Collected: 05/20/21 08:40

Client ID: 1-B1 (7.5-8.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	5.1		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	3.4		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	1.3	J	ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	27		ug/kg	2.6	0.23	1
p-Ethyltoluene	3.0		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	140		ug/kg	2.6	0.24	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	99		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-04
Client ID: 1-B1 (24.5-25)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/20/21 09:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/25/21 20:42
Analyst: JC
Percent Solids: 43%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	19	8.7	1
1,1-Dichloroethane	ND		ug/kg	3.8	0.55	1
Chloroform	ND		ug/kg	5.7	0.53	1
Carbon tetrachloride	ND		ug/kg	3.8	0.87	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.47	1
Dibromochloromethane	ND		ug/kg	3.8	0.53	1
1,1,2-Trichloroethane	ND		ug/kg	3.8	1.0	1
Tetrachloroethene	ND		ug/kg	1.9	0.74	1
Chlorobenzene	ND		ug/kg	1.9	0.48	1
Trichlorofluoromethane	ND		ug/kg	15	2.6	1
1,2-Dichloroethane	ND		ug/kg	3.8	0.97	1
1,1,1-Trichloroethane	ND		ug/kg	1.9	0.63	1
Bromodichloromethane	ND		ug/kg	1.9	0.41	1
trans-1,3-Dichloropropene	ND		ug/kg	3.8	1.0	1
cis-1,3-Dichloropropene	ND		ug/kg	1.9	0.60	1
1,3-Dichloropropene, Total	ND		ug/kg	1.9	0.60	1
1,1-Dichloropropene	ND		ug/kg	1.9	0.60	1
Bromoform	ND		ug/kg	15	0.93	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.9	0.63	1
Benzene	ND		ug/kg	1.9	0.63	1
Toluene	2.2	J	ug/kg	3.8	2.0	1
Ethylbenzene	1.3	J	ug/kg	3.8	0.53	1
Chloromethane	ND		ug/kg	15	3.5	1
Bromomethane	ND		ug/kg	7.6	2.2	1
Vinyl chloride	ND		ug/kg	3.8	1.3	1
Chloroethane	ND		ug/kg	7.6	1.7	1
1,1-Dichloroethene	ND		ug/kg	3.8	0.90	1
trans-1,2-Dichloroethene	ND		ug/kg	5.7	0.52	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-04 Date Collected: 05/20/21 09:15

Client ID: 1-B1 (24.5-25) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.9	0.52	1
1,2-Dichlorobenzene	ND		ug/kg	7.6	0.54	1
1,3-Dichlorobenzene	ND		ug/kg	7.6	0.56	1
1,4-Dichlorobenzene	ND		ug/kg	7.6	0.65	1
Methyl tert butyl ether	ND		ug/kg	7.6	0.76	1
p/m-Xylene	ND		ug/kg	7.6	2.1	1
o-Xylene	ND		ug/kg	3.8	1.1	1
Xylenes, Total	ND		ug/kg	3.8	1.1	1
cis-1,2-Dichloroethene	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethene, Total	ND		ug/kg	3.8	0.52	1
Dibromomethane	ND		ug/kg	7.6	0.90	1
Styrene	ND		ug/kg	3.8	0.74	1
Dichlorodifluoromethane	ND		ug/kg	38	3.5	1
Acetone	160		ug/kg	38	18.	1
Carbon disulfide	ND		ug/kg	38	17.	1
2-Butanone	35	J	ug/kg	38	8.4	1
Vinyl acetate	ND		ug/kg	38	8.1	1
4-Methyl-2-pentanone	ND		ug/kg	38	4.8	1
1,2,3-Trichloropropane	ND		ug/kg	7.6	0.48	1
2-Hexanone	ND		ug/kg	38	4.5	1
Bromochloromethane	ND		ug/kg	7.6	0.78	1
2,2-Dichloropropane	ND		ug/kg	7.6	0.76	1
1,2-Dibromoethane	ND		ug/kg	3.8	1.0	1
1,3-Dichloropropane	ND		ug/kg	7.6	0.63	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.9	0.50	1
Bromobenzene	ND		ug/kg	7.6	0.55	1
n-Butylbenzene	ND		ug/kg	3.8	0.63	1
sec-Butylbenzene	ND		ug/kg	3.8	0.55	1
tert-Butylbenzene	ND		ug/kg	7.6	0.45	1
o-Chlorotoluene	ND		ug/kg	7.6	0.72	1
p-Chlorotoluene	ND		ug/kg	7.6	0.41	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	11	3.8	1
Hexachlorobutadiene	ND		ug/kg	15	0.64	1
Isopropylbenzene	ND		ug/kg	3.8	0.41	1
p-Isopropyltoluene	ND		ug/kg	3.8	0.41	1
Naphthalene	14	J	ug/kg	15	2.5	1
Acrylonitrile	ND		ug/kg	15	4.4	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-04 Date Collected: 05/20/21 09:15

Client ID: 1-B1 (24.5-25) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	3.8	0.65	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.6	1.2	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.6	1.0	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.6	0.73	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.6	1.3	1
1,4-Dioxane	ND		ug/kg	300	130	1
p-Diethylbenzene	ND		ug/kg	7.6	0.67	1
p-Ethyltoluene	ND		ug/kg	7.6	1.4	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	7.6	0.72	1
Ethyl ether	ND		ug/kg	7.6	1.3	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	19	5.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	120		70-130
4-Bromofluorobenzene	**132**	Q	70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-04 R
Client ID: 1-B1 (24.5-25)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 09:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/26/21 16:32
Analyst: KJD
Percent Solids: 43%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	20	9.0	1
1,1-Dichloroethane	ND		ug/kg	4.0	0.57	1
Chloroform	ND		ug/kg	5.9	0.55	1
Carbon tetrachloride	ND		ug/kg	4.0	0.91	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.49	1
Dibromochloromethane	ND		ug/kg	4.0	0.55	1
1,1,2-Trichloroethane	ND		ug/kg	4.0	1.0	1
Tetrachloroethene	ND		ug/kg	2.0	0.78	1
Chlorobenzene	ND		ug/kg	2.0	0.50	1
Trichlorofluoromethane	ND		ug/kg	16	2.7	1
1,2-Dichloroethane	ND		ug/kg	4.0	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	2.0	0.66	1
Bromodichloromethane	ND		ug/kg	2.0	0.43	1
trans-1,3-Dichloropropene	ND		ug/kg	4.0	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	2.0	0.62	1
1,3-Dichloropropene, Total	ND		ug/kg	2.0	0.62	1
1,1-Dichloropropene	ND		ug/kg	2.0	0.63	1
Bromoform	ND		ug/kg	16	0.97	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.0	0.66	1
Benzene	ND		ug/kg	2.0	0.66	1
Toluene	ND		ug/kg	4.0	2.1	1
Ethylbenzene	0.84	J	ug/kg	4.0	0.56	1
Chloromethane	ND		ug/kg	16	3.7	1
Bromomethane	ND		ug/kg	7.9	2.3	1
Vinyl chloride	ND		ug/kg	4.0	1.3	1
Chloroethane	ND		ug/kg	7.9	1.8	1
1,1-Dichloroethene	ND		ug/kg	4.0	0.94	1
trans-1,2-Dichloroethene	ND		ug/kg	5.9	0.54	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-04 R
Client ID: 1-B1 (24.5-25)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 09:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	2.0	0.54	1
1,2-Dichlorobenzene	ND		ug/kg	7.9	0.57	1
1,3-Dichlorobenzene	ND		ug/kg	7.9	0.58	1
1,4-Dichlorobenzene	ND		ug/kg	7.9	0.68	1
Methyl tert butyl ether	ND		ug/kg	7.9	0.79	1
p/m-Xylene	ND		ug/kg	7.9	2.2	1
o-Xylene	ND		ug/kg	4.0	1.2	1
Xylenes, Total	ND		ug/kg	4.0	1.2	1
cis-1,2-Dichloroethene	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethene, Total	ND		ug/kg	4.0	0.54	1
Dibromomethane	ND		ug/kg	7.9	0.94	1
Styrene	ND		ug/kg	4.0	0.78	1
Dichlorodifluoromethane	ND		ug/kg	40	3.6	1
Acetone	300		ug/kg	40	19.	1
Carbon disulfide	ND		ug/kg	40	18.	1
2-Butanone	68		ug/kg	40	8.8	1
Vinyl acetate	ND		ug/kg	40	8.5	1
4-Methyl-2-pentanone	ND		ug/kg	40	5.1	1
1,2,3-Trichloropropane	ND		ug/kg	7.9	0.50	1
2-Hexanone	ND		ug/kg	40	4.7	1
Bromochloromethane	ND		ug/kg	7.9	0.81	1
2,2-Dichloropropane	ND		ug/kg	7.9	0.80	1
1,2-Dibromoethane	ND		ug/kg	4.0	1.1	1
1,3-Dichloropropane	ND		ug/kg	7.9	0.66	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	2.0	0.52	1
Bromobenzene	ND		ug/kg	7.9	0.57	1
n-Butylbenzene	ND		ug/kg	4.0	0.66	1
sec-Butylbenzene	ND		ug/kg	4.0	0.58	1
tert-Butylbenzene	ND		ug/kg	7.9	0.47	1
o-Chlorotoluene	ND		ug/kg	7.9	0.76	1
p-Chlorotoluene	ND		ug/kg	7.9	0.43	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	12	3.9	1
Hexachlorobutadiene	ND		ug/kg	16	0.67	1
Isopropylbenzene	ND		ug/kg	4.0	0.43	1
p-Isopropyltoluene	ND		ug/kg	4.0	0.43	1
Naphthalene	ND		ug/kg	16	2.6	1
Acrylonitrile	ND		ug/kg	16	4.5	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-04 R Date Collected: 05/20/21 09:15

Client ID: 1-B1 (24.5-25) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	4.0	0.68	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.9	1.3	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.9	1.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.9	0.76	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.9	1.3	1
1,4-Dioxane	ND		ug/kg	320	140	1
p-Diethylbenzene	ND		ug/kg	7.9	0.70	1
p-Ethyltoluene	ND		ug/kg	7.9	1.5	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	7.9	0.76	1
Ethyl ether	ND		ug/kg	7.9	1.3	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	20	5.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	123		70-130
Dibromofluoromethane	104		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05 Date Collected: 05/20/21 10:30
Client ID: 4-B1 (6.5-7) Date Received: 05/21/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/25/21 21:21
Analyst: JC
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05 Date Collected: 05/20/21 10:30

Client ID: 4-B1 (6.5-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	26		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	5.0	J	ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	4.2		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05 Date Collected: 05/20/21 10:30

Client ID: 4-B1 (6.5-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-06 Date Collected: 05/20/21 11:00

Client ID: 4-B1 (24-24.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 05/25/21 22:01

Analyst: JC

Percent Solids: 50%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	16	7.5	1
1,1-Dichloroethane	ND		ug/kg	3.3	0.48	1
Chloroform	ND		ug/kg	4.9	0.46	1
Carbon tetrachloride	ND		ug/kg	3.3	0.76	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.41	1
Dibromochloromethane	ND		ug/kg	3.3	0.46	1
1,1,2-Trichloroethane	ND		ug/kg	3.3	0.88	1
Tetrachloroethene	ND		ug/kg	1.6	0.64	1
Chlorobenzene	ND		ug/kg	1.6	0.42	1
Trichlorofluoromethane	ND		ug/kg	13	2.3	1
1,2-Dichloroethane	ND		ug/kg	3.3	0.85	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	0.55	1
Bromodichloromethane	ND		ug/kg	1.6	0.36	1
trans-1,3-Dichloropropene	ND		ug/kg	3.3	0.90	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	0.52	1
1,3-Dichloropropene, Total	ND		ug/kg	1.6	0.52	1
1,1-Dichloropropene	ND		ug/kg	1.6	0.52	1
Bromoform	ND		ug/kg	13	0.81	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	0.55	1
Benzene	2.0		ug/kg	1.6	0.55	1
Toluene	ND		ug/kg	3.3	1.8	1
Ethylbenzene	ND		ug/kg	3.3	0.46	1
Chloromethane	ND		ug/kg	13	3.1	1
Bromomethane	ND		ug/kg	6.6	1.9	1
Vinyl chloride	ND		ug/kg	3.3	1.1	1
Chloroethane	ND		ug/kg	6.6	1.5	1
1,1-Dichloroethene	ND		ug/kg	3.3	0.78	1
trans-1,2-Dichloroethene	ND		ug/kg	4.9	0.45	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-06 Date Collected: 05/20/21 11:00

Client ID: 4-B1 (24-24.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.6	0.45	1
1,2-Dichlorobenzene	ND		ug/kg	6.6	0.47	1
1,3-Dichlorobenzene	ND		ug/kg	6.6	0.49	1
1,4-Dichlorobenzene	ND		ug/kg	6.6	0.56	1
Methyl tert butyl ether	ND		ug/kg	6.6	0.66	1
p/m-Xylene	ND		ug/kg	6.6	1.8	1
o-Xylene	ND		ug/kg	3.3	0.96	1
Xylenes, Total	ND		ug/kg	3.3	0.96	1
cis-1,2-Dichloroethene	ND		ug/kg	3.3	0.58	1
1,2-Dichloroethene, Total	ND		ug/kg	3.3	0.45	1
Dibromomethane	ND		ug/kg	6.6	0.78	1
Styrene	ND		ug/kg	3.3	0.64	1
Dichlorodifluoromethane	ND		ug/kg	33	3.0	1
Acetone	120		ug/kg	33	16.	1
Carbon disulfide	ND		ug/kg	33	15.	1
2-Butanone	26	J	ug/kg	33	7.3	1
Vinyl acetate	ND		ug/kg	33	7.1	1
4-Methyl-2-pentanone	ND		ug/kg	33	4.2	1
1,2,3-Trichloropropane	ND		ug/kg	6.6	0.42	1
2-Hexanone	ND		ug/kg	33	3.9	1
Bromochloromethane	ND		ug/kg	6.6	0.68	1
2,2-Dichloropropane	ND		ug/kg	6.6	0.66	1
1,2-Dibromoethane	ND		ug/kg	3.3	0.92	1
1,3-Dichloropropane	ND		ug/kg	6.6	0.55	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.6	0.43	1
Bromobenzene	ND		ug/kg	6.6	0.48	1
n-Butylbenzene	ND		ug/kg	3.3	0.55	1
sec-Butylbenzene	ND		ug/kg	3.3	0.48	1
tert-Butylbenzene	ND		ug/kg	6.6	0.39	1
o-Chlorotoluene	ND		ug/kg	6.6	0.63	1
p-Chlorotoluene	ND		ug/kg	6.6	0.36	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.9	3.3	1
Hexachlorobutadiene	ND		ug/kg	13	0.56	1
Isopropylbenzene	ND		ug/kg	3.3	0.36	1
p-Isopropyltoluene	ND		ug/kg	3.3	0.36	1
Naphthalene	ND		ug/kg	13	2.1	1
Acrylonitrile	ND		ug/kg	13	3.8	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-06 Date Collected: 05/20/21 11:00

Client ID: 4-B1 (24-24.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	3.3	0.56	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.6	1.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.6	0.90	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.6	0.64	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.6	1.1	1
1,4-Dioxane	ND		ug/kg	260	120	1
p-Diethylbenzene	ND		ug/kg	6.6	0.58	1
p-Ethyltoluene	ND		ug/kg	6.6	1.3	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.6	0.63	1
Ethyl ether	ND		ug/kg	6.6	1.1	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	16	4.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	128		70-130
4-Bromofluorobenzene	**132**	Q	70-130
Dibromofluoromethane	107		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-06 R
Client ID: 4-B1 (24-24.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 11:00
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/26/21 17:12
Analyst: KJD
Percent Solids: 50%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	16	7.5	1
1,1-Dichloroethane	ND		ug/kg	3.3	0.48	1
Chloroform	ND		ug/kg	4.9	0.46	1
Carbon tetrachloride	ND		ug/kg	3.3	0.76	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.41	1
Dibromochloromethane	ND		ug/kg	3.3	0.46	1
1,1,2-Trichloroethane	ND		ug/kg	3.3	0.88	1
Tetrachloroethene	ND		ug/kg	1.6	0.64	1
Chlorobenzene	ND		ug/kg	1.6	0.42	1
Trichlorofluoromethane	ND		ug/kg	13	2.3	1
1,2-Dichloroethane	ND		ug/kg	3.3	0.84	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	0.55	1
Bromodichloromethane	ND		ug/kg	1.6	0.36	1
trans-1,3-Dichloropropene	ND		ug/kg	3.3	0.90	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	0.52	1
1,3-Dichloropropene, Total	ND		ug/kg	1.6	0.52	1
1,1-Dichloropropene	ND		ug/kg	1.6	0.52	1
Bromoform	ND		ug/kg	13	0.81	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	0.54	1
Benzene	2.3		ug/kg	1.6	0.54	1
Toluene	ND		ug/kg	3.3	1.8	1
Ethylbenzene	ND		ug/kg	3.3	0.46	1
Chloromethane	ND		ug/kg	13	3.1	1
Bromomethane	ND		ug/kg	6.6	1.9	1
Vinyl chloride	ND		ug/kg	3.3	1.1	1
Chloroethane	ND		ug/kg	6.6	1.5	1
1,1-Dichloroethene	ND		ug/kg	3.3	0.78	1
trans-1,2-Dichloroethene	ND		ug/kg	4.9	0.45	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-06 R
Client ID: 4-B1 (24-24.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 11:00
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.6	0.45	1
1,2-Dichlorobenzene	ND		ug/kg	6.6	0.47	1
1,3-Dichlorobenzene	ND		ug/kg	6.6	0.48	1
1,4-Dichlorobenzene	ND		ug/kg	6.6	0.56	1
Methyl tert butyl ether	ND		ug/kg	6.6	0.66	1
p/m-Xylene	ND		ug/kg	6.6	1.8	1
o-Xylene	ND		ug/kg	3.3	0.96	1
Xylenes, Total	ND		ug/kg	3.3	0.96	1
cis-1,2-Dichloroethene	ND		ug/kg	3.3	0.57	1
1,2-Dichloroethene, Total	ND		ug/kg	3.3	0.45	1
Dibromomethane	ND		ug/kg	6.6	0.78	1
Styrene	ND		ug/kg	3.3	0.64	1
Dichlorodifluoromethane	ND		ug/kg	33	3.0	1
Acetone	220		ug/kg	33	16.	1
Carbon disulfide	ND		ug/kg	33	15.	1
2-Butanone	50		ug/kg	33	7.3	1
Vinyl acetate	ND		ug/kg	33	7.0	1
4-Methyl-2-pentanone	ND		ug/kg	33	4.2	1
1,2,3-Trichloropropane	ND		ug/kg	6.6	0.42	1
2-Hexanone	ND		ug/kg	33	3.9	1
Bromochloromethane	ND		ug/kg	6.6	0.67	1
2,2-Dichloropropane	ND		ug/kg	6.6	0.66	1
1,2-Dibromoethane	ND		ug/kg	3.3	0.92	1
1,3-Dichloropropane	ND		ug/kg	6.6	0.55	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.6	0.43	1
Bromobenzene	ND		ug/kg	6.6	0.48	1
n-Butylbenzene	ND		ug/kg	3.3	0.55	1
sec-Butylbenzene	ND		ug/kg	3.3	0.48	1
tert-Butylbenzene	ND		ug/kg	6.6	0.39	1
o-Chlorotoluene	ND		ug/kg	6.6	0.63	1
p-Chlorotoluene	ND		ug/kg	6.6	0.35	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.8	3.3	1
Hexachlorobutadiene	ND		ug/kg	13	0.55	1
Isopropylbenzene	ND		ug/kg	3.3	0.36	1
p-Isopropyltoluene	ND		ug/kg	3.3	0.36	1
Naphthalene	22		ug/kg	13	2.1	1
Acrylonitrile	ND		ug/kg	13	3.8	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-06 R Date Collected: 05/20/21 11:00

Client ID: 4-B1 (24-24.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	3.3	0.56	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.6	1.0	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.6	0.89	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.6	0.63	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.6	1.1	1
1,4-Dioxane	ND		ug/kg	260	120	1
p-Diethylbenzene	ND		ug/kg	6.6	0.58	1
p-Ethyltoluene	ND		ug/kg	6.6	1.3	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.6	0.63	1
Ethyl ether	ND		ug/kg	6.6	1.1	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	16	4.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	130		70-130
4-Bromofluorobenzene	**139**	Q	70-130
Dibromofluoromethane	108		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07 Date Collected: 05/20/21 12:15
Client ID: 10-B2 (8.5-9) Date Received: 05/21/21
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/25/21 22:41
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.26	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	0.16	J	ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07 Date Collected: 05/20/21 12:15

Client ID: 10-B2 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.91	1
Acetone	32		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.5	1
2-Butanone	6.3	J	ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.14	1
tert-Butylbenzene	0.39	J	ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	0.29	J	ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07 Date Collected: 05/20/21 12:15

Client ID: 10-B2 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	80	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	0.29	J	ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	101		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-08
Client ID: 10-B2 (34.5-35)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 13:00
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/25/21 23:20
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.81	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.3	0.68	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-08 Date Collected: 05/20/21 13:00

Client ID: 10-B2 (34.5-35) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	0.68	J	ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.65	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	7.3	J	ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.76	1
Acrylonitrile	ND		ug/kg	4.7	1.3	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-08 Date Collected: 05/20/21 13:00

Client ID: 10-B2 (34.5-35) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	93	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.21	1
p-Ethyltoluene	ND		ug/kg	2.3	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09 Date Collected: 05/20/21 07:30

Client ID: 9-B1 (6-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 05/26/21 00:00

Analyst: JC

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.4	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.97	0.53	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.97	0.32	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09 Date Collected: 05/20/21 07:30

Client ID: 9-B1 (6-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.89	1
Acetone	ND		ug/kg	9.7	4.7	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.2	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.97	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.11	1
Naphthalene	1.0	J	ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09 Date Collected: 05/20/21 07:30

Client ID: 9-B1 (6-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.97	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	0.43	J	ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	78	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	101		70-130

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-10
Client ID: 9-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:45
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/26/21 00:40
Analyst: JC
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.9	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.16	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.86	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.20	1
Benzene	ND		ug/kg	0.62	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-10 Date Collected: 05/20/21 07:45

Client ID: 9-B1 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	150		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	38		ug/kg	12	2.8	1
Vinyl acetate	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.35	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	5.8		ug/kg	1.2	0.14	1
Naphthalene	14		ug/kg	5.0	0.81	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-10 Date Collected: 05/20/21 07:45

Client ID: 9-B1 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	0.24	J	ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.41	1
1,4-Dioxane	ND		ug/kg	99	44.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/26/21 08:40
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04,06 Batch: WG1503995-10					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/26/21 08:40
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04,06 Batch: WG1503995-10					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/26/21 08:40
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04,06 Batch: WG1503995-10					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/25/21 18:44
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-10 Batch: WG1503995-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/25/21 18:44
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-10 Batch: WG1503995-5					
1,2-Dichlorobenzene	0.15	J	ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	0.31	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/25/21 18:44
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-10 Batch: WG1503995-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	0.23	J	ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	0.65	J	ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.50	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	0.39	J	ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1503995-3 WG1503995-4								
Methylene chloride	106		106		70-130	0		30
1,1-Dichloroethane	112		112		70-130	0		30
Chloroform	104		105		70-130	1		30
Carbon tetrachloride	114		118		70-130	3		30
1,2-Dichloropropane	111		111		70-130	0		30
Dibromochloromethane	121		122		70-130	1		30
1,1,2-Trichloroethane	113		112		70-130	1		30
Tetrachloroethene	110		110		70-130	0		30
Chlorobenzene	108		107		70-130	1		30
Trichlorofluoromethane	114		115		70-139	1		30
1,2-Dichloroethane	113		112		70-130	1		30
1,1,1-Trichloroethane	114		117		70-130	3		30
Bromodichloromethane	113		116		70-130	3		30
trans-1,3-Dichloropropene	117		118		70-130	1		30
cis-1,3-Dichloropropene	116		117		70-130	1		30
1,1-Dichloropropene	116		115		70-130	1		30
Bromoform	121		124		70-130	2		30
1,1,2,2-Tetrachloroethane	117		114		70-130	3		30
Benzene	110		109		70-130	1		30
Toluene	104		104		70-130	0		30
Ethylbenzene	112		111		70-130	1		30
Chloromethane	103		101		52-130	2		30
Bromomethane	98		112		57-147	13		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1503995-3 WG1503995-4								
Vinyl chloride	114		115		67-130	1		30
Chloroethane	112		110		50-151	2		30
1,1-Dichloroethene	111		110		65-135	1		30
trans-1,2-Dichloroethene	109		109		70-130	0		30
Trichloroethene	109		110		70-130	1		30
1,2-Dichlorobenzene	111		112		70-130	1		30
1,3-Dichlorobenzene	111		112		70-130	1		30
1,4-Dichlorobenzene	111		112		70-130	1		30
Methyl tert butyl ether	113		113		66-130	0		30
p/m-Xylene	110		110		70-130	0		30
o-Xylene	111		111		70-130	0		30
cis-1,2-Dichloroethene	108		108		70-130	0		30
Dibromomethane	112		112		70-130	0		30
Styrene	113		113		70-130	0		30
Dichlorodifluoromethane	107		107		30-146	0		30
Acetone	121		111		54-140	9		30
Carbon disulfide	108		110		59-130	2		30
2-Butanone	121		118		70-130	3		30
Vinyl acetate	120		123		70-130	2		30
4-Methyl-2-pentanone	123		117		70-130	5		30
1,2,3-Trichloropropane	113		111		68-130	2		30
2-Hexanone	126		122		70-130	3		30
Bromochloromethane	112		111		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1503995-3 WG1503995-4								
2,2-Dichloropropane	111		114		70-130	3		30
1,2-Dibromoethane	115		114		70-130	1		30
1,3-Dichloropropane	114		112		69-130	2		30
1,1,1,2-Tetrachloroethane	117		119		70-130	2		30
Bromobenzene	110		110		70-130	0		30
n-Butylbenzene	114		114		70-130	0		30
sec-Butylbenzene	113		113		70-130	0		30
tert-Butylbenzene	114		114		70-130	0		30
o-Chlorotoluene	109		109		70-130	0		30
p-Chlorotoluene	110		110		70-130	0		30
1,2-Dibromo-3-chloropropane	121		124		68-130	2		30
Hexachlorobutadiene	116		115		67-130	1		30
Isopropylbenzene	113		113		70-130	0		30
p-Isopropyltoluene	115		116		70-130	1		30
Naphthalene	119		116		70-130	3		30
Acrylonitrile	120		117		70-130	3		30
n-Propylbenzene	114		113		70-130	1		30
1,2,3-Trichlorobenzene	115		112		70-130	3		30
1,2,4-Trichlorobenzene	117		113		70-130	3		30
1,3,5-Trimethylbenzene	113		113		70-130	0		30
1,2,4-Trimethylbenzene	113		113		70-130	0		30
1,4-Dioxane	91		81		65-136	12		30
p-Diethylbenzene	115		116		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-10 Batch: WG1503995-3 WG1503995-4								
p-Ethyltoluene	112		112		70-130	0		30
1,2,4,5-Tetramethylbenzene	118		118		70-130	0		30
Ethyl ether	112		111		67-130	1		30
trans-1,4-Dichloro-2-butene	120		119		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04,06 Batch: WG1503995-8 WG1503995-9								
Methylene chloride	95		94		70-130	1		30
1,1-Dichloroethane	91		92		70-130	1		30
Chloroform	87		88		70-130	1		30
Carbon tetrachloride	91		97		70-130	6		30
1,2-Dichloropropane	93		94		70-130	1		30
Dibromochloromethane	103		108		70-130	5		30
1,1,2-Trichloroethane	96		98		70-130	2		30
Tetrachloroethene	90		89		70-130	1		30
Chlorobenzene	90		89		70-130	1		30
Trichlorofluoromethane	92		93		70-139	1		30
1,2-Dichloroethane	94		99		70-130	5		30
1,1,1-Trichloroethane	92		94		70-130	2		30
Bromodichloromethane	96		99		70-130	3		30
trans-1,3-Dichloropropene	100		103		70-130	3		30
cis-1,3-Dichloropropene	98		101		70-130	3		30
1,1-Dichloropropene	93		94		70-130	1		30
Bromoform	101		110		70-130	9		30
1,1,2,2-Tetrachloroethane	100		106		70-130	6		30
Benzene	91		91		70-130	0		30
Toluene	87		86		70-130	1		30
Ethylbenzene	92		91		70-130	1		30
Chloromethane	87		85		52-130	2		30
Bromomethane	85		86		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04,06 Batch: WG1503995-8 WG1503995-9								
Vinyl chloride	90		88		67-130	2		30
Chloroethane	93		91		50-151	2		30
1,1-Dichloroethene	90		90		65-135	0		30
trans-1,2-Dichloroethene	91		90		70-130	1		30
Trichloroethene	90		91		70-130	1		30
1,2-Dichlorobenzene	94		94		70-130	0		30
1,3-Dichlorobenzene	94		93		70-130	1		30
1,4-Dichlorobenzene	94		93		70-130	1		30
Methyl tert butyl ether	99		104		66-130	5		30
p/m-Xylene	91		90		70-130	1		30
o-Xylene	93		92		70-130	1		30
cis-1,2-Dichloroethene	90		90		70-130	0		30
Dibromomethane	95		99		70-130	4		30
Styrene	94		93		70-130	1		30
Dichlorodifluoromethane	92		90		30-146	2		30
Acetone	116		127		54-140	9		30
Carbon disulfide	88		89		59-130	1		30
2-Butanone	106		117		70-130	10		30
Vinyl acetate	105		113		70-130	7		30
4-Methyl-2-pentanone	107		114		70-130	6		30
1,2,3-Trichloropropane	98		103		68-130	5		30
2-Hexanone	108		118		70-130	9		30
Bromochloromethane	93		95		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04,06 Batch: WG1503995-8 WG1503995-9								
2,2-Dichloropropane	92		95		70-130	3		30
1,2-Dibromoethane	100		102		70-130	2		30
1,3-Dichloropropane	97		99		69-130	2		30
1,1,1,2-Tetrachloroethane	99		101		70-130	2		30
Bromobenzene	92		93		70-130	1		30
n-Butylbenzene	95		93		70-130	2		30
sec-Butylbenzene	94		94		70-130	0		30
tert-Butylbenzene	94		93		70-130	1		30
o-Chlorotoluene	92		91		70-130	1		30
p-Chlorotoluene	92		92		70-130	0		30
1,2-Dibromo-3-chloropropane	107		119		68-130	11		30
Hexachlorobutadiene	95		95		67-130	0		30
Isopropylbenzene	93		93		70-130	0		30
p-Isopropyltoluene	96		94		70-130	2		30
Naphthalene	105		110		70-130	5		30
Acrylonitrile	103		112		70-130	8		30
n-Propylbenzene	94		93		70-130	1		30
1,2,3-Trichlorobenzene	100		101		70-130	1		30
1,2,4-Trichlorobenzene	100		100		70-130	0		30
1,3,5-Trimethylbenzene	94		93		70-130	1		30
1,2,4-Trimethylbenzene	95		93		70-130	2		30
1,4-Dioxane	116		122		65-136	5		30
p-Diethylbenzene	96		94		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04,06 Batch: WG1503995-8 WG1503995-9								
p-Ethyltoluene	94		93		70-130	1		30
1,2,4,5-Tetramethylbenzene	101		99		70-130	2		30
Ethyl ether	97		100		67-130	3		30
trans-1,4-Dichloro-2-butene	101		110		70-130	9		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		105		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	99		101		70-130
Dibromofluoromethane	101		102		70-130

SEMIVOLATILES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-01
Client ID: 2-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:00
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/03/21 05:26
Analyst: ALS
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 08:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	160		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	1200		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	120	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-01 Date Collected: 05/20/21 07:00

Client ID: 2-B1 (7.5-8) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	1000		ug/kg	120	22.	1
Benzo(a)pyrene	1100		ug/kg	160	48.	1
Benzo(b)fluoranthene	960		ug/kg	120	33.	1
Benzo(k)fluoranthene	360		ug/kg	120	32.	1
Chrysene	1000		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	260		ug/kg	120	39.	1
Benzo(ghi)perylene	670		ug/kg	160	23.	1
Fluorene	99	J	ug/kg	200	19.	1
Phenanthrene	920		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	170		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	580		ug/kg	160	28.	1
Pyrene	1600		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	40	J	ug/kg	200	19.	1
2-Methylnaphthalene	31	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-01 Date Collected: 05/20/21 07:00

Client ID: 2-B1 (7.5-8) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	77	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	74		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03
Client ID: 1-B1 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 08:40
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/03/21 13:08
Analyst: SZ
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 00:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	220		ug/kg	170	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	4000		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	780		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	76.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03 Date Collected: 05/20/21 08:40

Client ID: 1-B1 (7.5-8.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	2200		ug/kg	130	25.	1
Benzo(a)pyrene	2500		ug/kg	170	53.	1
Benzo(b)fluoranthene	3200		ug/kg	130	37.	1
Benzo(k)fluoranthene	1100		ug/kg	130	35.	1
Chrysene	2600		ug/kg	130	23.	1
Acenaphthylene	130	J	ug/kg	170	34.	1
Anthracene	520		ug/kg	130	43.	1
Benzo(ghi)perylene	1600		ug/kg	170	26.	1
Fluorene	340		ug/kg	220	21.	1
Phenanthrene	2600		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	420		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	1700		ug/kg	170	30.	1
Pyrene	3700		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	51.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	120	J	ug/kg	220	21.	1
2-Methylnaphthalene	410		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03 Date Collected: 05/20/21 08:40

Client ID: 1-B1 (7.5-8.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Benzoic Acid	ND		ug/kg	710	220	1
Benzyl Alcohol	ND		ug/kg	220	67.	1
Carbazole	210	J	ug/kg	220	21.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	95		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	103		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03
Client ID: 1-B1 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 08:40
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/27/21 22:00
Analyst: HT
Percent Solids: 76%

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.631	0.029	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.631	0.058	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.316	0.049	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.631	0.066	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.316	0.057	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.316	0.076	1
Perfluorooctanoic Acid (PFOA)	0.071	J	ng/g	0.316	0.053	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.631	0.227	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.631	0.172	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.316	0.095	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.316	0.164	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.316	0.085	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.631	0.362	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.631	0.254	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.631	0.059	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.631	0.193	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.631	0.124	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.631	0.107	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.631	0.088	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.631	0.258	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.631	0.068	1
PFOA/PFOS, Total	0.071	J	ng/g	0.316	0.053	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03 Date Collected: 05/20/21 08:40

Client ID: 1-B1 (7.5-8.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	112		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	125		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	120		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	111		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	111		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	119		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	111		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	133		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	108		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	118		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	108		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	124		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	69		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	115		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	88		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	70		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	90		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05
Client ID: 4-B1 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 10:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/03/21 13:29
Analyst: SZ
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 00:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	150	J	ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	1700		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	160	J	ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	71.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05 Date Collected: 05/20/21 10:30

Client ID: 4-B1 (6.5-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	780		ug/kg	120	24.	1
Benzo(a)pyrene	790		ug/kg	170	51.	1
Benzo(b)fluoranthene	950		ug/kg	120	35.	1
Benzo(k)fluoranthene	270		ug/kg	120	34.	1
Chrysene	780		ug/kg	120	22.	1
Acenaphthylene	87	J	ug/kg	170	32.	1
Anthracene	340		ug/kg	120	41.	1
Benzo(ghi)perylene	480		ug/kg	170	25.	1
Fluorene	170	J	ug/kg	210	20.	1
Phenanthrene	1400		ug/kg	120	26.	1
Dibenzo(a,h)anthracene	110	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	500		ug/kg	170	29.	1
Pyrene	1500		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	100	J	ug/kg	210	20.	1
2-Methylnaphthalene	59	J	ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	79.	1
4-Nitrophenol	ND		ug/kg	290	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	86	J	ug/kg	300	33.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05 Date Collected: 05/20/21 10:30

Client ID: 4-B1 (6.5-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	120	J	ug/kg	210	20.	1
1,4-Dioxane	ND		ug/kg	31	9.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	64		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05
Client ID: 4-B1 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 10:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/27/21 22:16
Analyst: HT
Percent Solids: 79%

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.574	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.574	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.287	0.045	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.574	0.060	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.287	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.287	0.069	1
Perfluorooctanoic Acid (PFOA)	0.120	J	ng/g	0.287	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.574	0.206	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.574	0.157	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.287	0.086	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.287	0.149	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.287	0.077	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.574	0.329	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.574	0.231	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.574	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.574	0.176	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.574	0.097	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.574	0.080	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.574	0.235	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.574	0.062	1
PFOA/PFOS, Total	0.120	J	ng/g	0.287	0.048	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05 Date Collected: 05/20/21 10:30

Client ID: 4-B1 (6.5-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	108		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	119		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	121		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	106		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	107		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	111		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	108		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	126		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	102		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	116		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	121		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**11**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**14**	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	83		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05
Client ID: 4-B1 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 10:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/30/21 12:52
Analyst: SG
Percent Solids: 79%

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.574	0.112	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	55		10-117

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07
Client ID: 10-B2 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 12:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/03/21 13:51
Analyst: SZ
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 00:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	810		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	63	J	ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	5900		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	300		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07 Date Collected: 05/20/21 12:15

Client ID: 10-B2 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	3400		ug/kg	120	22.	1
Benzo(a)pyrene	2900		ug/kg	150	47.	1
Benzo(b)fluoranthene	3600		ug/kg	120	32.	1
Benzo(k)fluoranthene	950		ug/kg	120	31.	1
Chrysene	3200		ug/kg	120	20.	1
Acenaphthylene	350		ug/kg	150	30.	1
Anthracene	2200		ug/kg	120	38.	1
Benzo(ghi)perylene	1700		ug/kg	150	23.	1
Fluorene	1100		ug/kg	190	19.	1
Phenanthrene	6100		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	470		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	1800		ug/kg	150	27.	1
Pyrene	5600		ug/kg	120	19.	1
Biphenyl	76	J	ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	580		ug/kg	190	18.	1
2-Methylnaphthalene	210	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	72.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	920	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	64	J	ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	88	J	ug/kg	280	30.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07 Date Collected: 05/20/21 12:15

Client ID: 10-B2 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	560		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	76		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07
Client ID: 10-B2 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 12:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/27/21 22:33
Analyst: HT
Percent Solids: 85%

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.545	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.545	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.272	0.043	1
Perfluorohexanoic Acid (PFHxA)	0.070	J	ng/g	0.545	0.057	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.272	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.272	0.066	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.272	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.545	0.196	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.545	0.149	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.272	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.272	0.142	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.272	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.545	0.313	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.545	0.219	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.545	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.545	0.167	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.545	0.107	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.545	0.092	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.545	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.545	0.223	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.545	0.059	1
PFOA/PFOS, Total	ND		ng/g	0.272	0.046	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07 Date Collected: 05/20/21 12:15

Client ID: 10-B2 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	116		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	129		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	121		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	113		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	113		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	124		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	117		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	130		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	111		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	120		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	112		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	129		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	86		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	119		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	97		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	97		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	110		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09
Client ID: 9-B1 (6-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/04/21 02:17
Analyst: SZ
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 00:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	44	J	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	26	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09 Date Collected: 05/20/21 07:30

Client ID: 9-B1 (6-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	120		ug/kg	120	22.	1
Benzo(a)pyrene	150	J	ug/kg	160	48.	1
Benzo(b)fluoranthene	140		ug/kg	120	33.	1
Benzo(k)fluoranthene	44	J	ug/kg	120	31.	1
Chrysene	110	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	96	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	30	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	160	27.	1
Pyrene	76	J	ug/kg	120	19.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09 Date Collected: 05/20/21 07:30

Client ID: 9-B1 (6-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	48		30-120
2,4,6-Tribromophenol	39		10-136
4-Terphenyl-d14	33		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09
Client ID: 9-B1 (6-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/27/21 22:49
Analyst: HT
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.042	J	ng/g	0.544	0.025	1
Perfluoropentanoic Acid (PFPeA)	0.088	J	ng/g	0.544	0.050	1
Perfluorobutanesulfonic Acid (PFBS)	0.170	J	ng/g	0.272	0.042	1
Perfluorohexanoic Acid (PFHxA)	0.212	J	ng/g	0.544	0.057	1
Perfluoroheptanoic Acid (PFHpA)	0.161	J	ng/g	0.272	0.049	1
Perfluorohexanesulfonic Acid (PFHxS)	1.00		ng/g	0.272	0.066	1
Perfluorooctanoic Acid (PFOA)	1.83		ng/g	0.272	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.544	0.195	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.544	0.148	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.272	0.082	1
Perfluorooctanesulfonic Acid (PFOS)	1.53		ng/g	0.272	0.141	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.272	0.073	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.544	0.312	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.544	0.219	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.544	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.544	0.166	1
Perfluorooctanesulfonamide (FOSA)	0.161	JF	ng/g	0.544	0.106	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	25.4		ng/g	0.544	0.092	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.544	0.076	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.544	0.222	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.544	0.059	1
PFOA/PFOS, Total	3.36		ng/g	0.272	0.046	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09 Date Collected: 05/20/21 07:30

Client ID: 9-B1 (6-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	119		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	104		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	108		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	139		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	107		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	125		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	82		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	83		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	104		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	111		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-10
Client ID: 9-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:45
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/03/21 05:04
Analyst: ALS
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 08:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	240		ug/kg	180	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	26.	1
Hexachlorobenzene	ND		ug/kg	140	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	31.	1
2-Chloronaphthalene	ND		ug/kg	230	22.	1
1,2-Dichlorobenzene	ND		ug/kg	230	41.	1
1,3-Dichlorobenzene	ND		ug/kg	230	39.	1
1,4-Dichlorobenzene	ND		ug/kg	230	40.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	60.	1
2,4-Dinitrotoluene	ND		ug/kg	230	45.	1
2,6-Dinitrotoluene	ND		ug/kg	230	39.	1
Fluoranthene	1700		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	35.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	39.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	23.	1
Hexachlorobutadiene	ND		ug/kg	230	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	650	200	1
Hexachloroethane	ND		ug/kg	180	37.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	370		ug/kg	230	28.	1
Nitrobenzene	ND		ug/kg	200	34.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	79.	1
Butyl benzyl phthalate	ND		ug/kg	230	57.	1
Di-n-butylphthalate	ND		ug/kg	230	43.	1
Di-n-octylphthalate	ND		ug/kg	230	77.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-10 Date Collected: 05/20/21 07:45

Client ID: 9-B1 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	230	21.	1
Dimethyl phthalate	ND		ug/kg	230	48.	1
Benzo(a)anthracene	800		ug/kg	140	26.	1
Benzo(a)pyrene	790		ug/kg	180	55.	1
Benzo(b)fluoranthene	900		ug/kg	140	38.	1
Benzo(k)fluoranthene	260		ug/kg	140	36.	1
Chrysene	780		ug/kg	140	24.	1
Acenaphthylene	39	J	ug/kg	180	35.	1
Anthracene	390		ug/kg	140	44.	1
Benzo(ghi)perylene	500		ug/kg	180	27.	1
Fluorene	230		ug/kg	230	22.	1
Phenanthrene	1400		ug/kg	140	28.	1
Dibenzo(a,h)anthracene	120	J	ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	520		ug/kg	180	32.	1
Pyrene	1600		ug/kg	140	22.	1
Biphenyl	ND		ug/kg	520	53.	1
4-Chloroaniline	ND		ug/kg	230	41.	1
2-Nitroaniline	ND		ug/kg	230	44.	1
3-Nitroaniline	ND		ug/kg	230	43.	1
4-Nitroaniline	ND		ug/kg	230	94.	1
Dibenzofuran	130	J	ug/kg	230	21.	1
2-Methylnaphthalene	97	J	ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	24.	1
Acetophenone	ND		ug/kg	230	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	43.	1
p-Chloro-m-cresol	ND		ug/kg	230	34.	1
2-Chlorophenol	ND		ug/kg	230	27.	1
2,4-Dichlorophenol	ND		ug/kg	200	36.	1
2,4-Dimethylphenol	ND		ug/kg	230	75.	1
2-Nitrophenol	ND		ug/kg	490	85.	1
4-Nitrophenol	ND		ug/kg	320	93.	1
2,4-Dinitrophenol	ND		ug/kg	1100	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	590	110	1
Pentachlorophenol	ND		ug/kg	180	50.	1
Phenol	110	J	ug/kg	230	34.	1
2-Methylphenol	ND		ug/kg	230	35.	1
3-Methylphenol/4-Methylphenol	1600		ug/kg	330	36.	1

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-10 Date Collected: 05/20/21 07:45

Client ID: 9-B1 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	230	44.	1
Benzoic Acid	ND		ug/kg	740	230	1
Benzyl Alcohol	ND		ug/kg	230	70.	1
Carbazole	120	J	ug/kg	230	22.	1
1,4-Dioxane	ND		ug/kg	34	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	77		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/26/21 02:08
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 03,05,07,09 Batch: WG1502698-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/26/21 02:08
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 03,05,07,09 Batch: WG1502698-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	107		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	110		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	120		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	96		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	120		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	96		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	116		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	114		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	95		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	116		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	40		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	123		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	122		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	108		24-159

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/30/21 12:01
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 05/24/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 03,05,07,09 Batch: WG1502698-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	74		10-117

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/03/21 09:54
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 06/02/21 00:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,05,07,09 Batch: WG1506300-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/03/21 09:54
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 06/02/21 00:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,05,07,09 Batch: WG1506300-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/03/21 09:54
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 06/02/21 00:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,05,07,09 Batch: WG1506300-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	96		10-136
4-Terphenyl-d14	77		18-120

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/02/21 21:21
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 06/02/21 08:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,10 Batch: WG1506442-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/02/21 21:21
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 06/02/21 08:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,10 Batch: WG1506442-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/02/21 21:21
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 06/02/21 08:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,10 Batch: WG1506442-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	91		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 Batch: WG1502698-2								
Perfluorobutanoic Acid (PFBA)	97		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	104		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	91		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	103		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	99		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	96		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	99		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	118		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	106		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	124		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	109		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	101		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	112		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	121		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	106		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	102		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	96		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	93		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	101		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	131		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	105		-		69-133	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 Batch: WG1502698-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	105				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	107				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	121				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	101				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	110				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	99				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	114				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	120				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	102				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	126				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	27				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**144**	Q			34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	129				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	142				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 Batch: WG1502698-2								
Perfluorooctanesulfonamide (FOSA)	87		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	76				10-117

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1506300-2 WG1506300-3								
Acenaphthene	80		90		31-137	12		50
1,2,4-Trichlorobenzene	79		86		38-107	8		50
Hexachlorobenzene	78		88		40-140	12		50
Bis(2-chloroethyl)ether	79		85		40-140	7		50
2-Chloronaphthalene	85		96		40-140	12		50
1,2-Dichlorobenzene	71		77		40-140	8		50
1,3-Dichlorobenzene	68		74		40-140	8		50
1,4-Dichlorobenzene	70		75		28-104	7		50
3,3'-Dichlorobenzidine	70		80		40-140	13		50
2,4-Dinitrotoluene	77		88		40-132	13		50
2,6-Dinitrotoluene	92		105		40-140	13		50
Fluoranthene	81		94		40-140	15		50
4-Chlorophenyl phenyl ether	80		90		40-140	12		50
4-Bromophenyl phenyl ether	78		89		40-140	13		50
Bis(2-chloroisopropyl)ether	104		113		40-140	8		50
Bis(2-chloroethoxy)methane	82		89		40-117	8		50
Hexachlorobutadiene	85		94		40-140	10		50
Hexachlorocyclopentadiene	74		84		40-140	13		50
Hexachloroethane	83		92		40-140	10		50
Isophorone	86		94		40-140	9		50
Naphthalene	78		85		40-140	9		50
Nitrobenzene	89		96		40-140	8		50
NDPA/DPA	80		92		36-157	14		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1506300-2 WG1506300-3								
n-Nitrosodi-n-propylamine	91		98		32-121	7		50
Bis(2-ethylhexyl)phthalate	101		115		40-140	13		50
Butyl benzyl phthalate	90		104		40-140	14		50
Di-n-butylphthalate	94		110		40-140	16		50
Di-n-octylphthalate	97		111		40-140	13		50
Diethyl phthalate	86		97		40-140	12		50
Dimethyl phthalate	85		98		40-140	14		50
Benzo(a)anthracene	83		94		40-140	12		50
Benzo(a)pyrene	78		89		40-140	13		50
Benzo(b)fluoranthene	79		86		40-140	8		50
Benzo(k)fluoranthene	74		87		40-140	16		50
Chrysene	80		91		40-140	13		50
Acenaphthylene	79		89		40-140	12		50
Anthracene	83		97		40-140	16		50
Benzo(ghi)perylene	82		97		40-140	17		50
Fluorene	81		93		40-140	14		50
Phenanthrene	83		97		40-140	16		50
Dibenzo(a,h)anthracene	82		95		40-140	15		50
Indeno(1,2,3-cd)pyrene	81		96		40-140	17		50
Pyrene	79		94		35-142	17		50
Biphenyl	79		87		37-127	10		50
4-Chloroaniline	92		104		40-140	12		50
2-Nitroaniline	92		104		47-134	12		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1506300-2 WG1506300-3								
3-Nitroaniline	79		90		26-129	13		50
4-Nitroaniline	81		92		41-125	13		50
Dibenzofuran	79		90		40-140	13		50
2-Methylnaphthalene	80		88		40-140	10		50
1,2,4,5-Tetrachlorobenzene	83		91		40-117	9		50
Acetophenone	78		86		14-144	10		50
2,4,6-Trichlorophenol	94		106		30-130	12		50
p-Chloro-m-cresol	92		103		26-103	11		50
2-Chlorophenol	81		87		25-102	7		50
2,4-Dichlorophenol	91		100		30-130	9		50
2,4-Dimethylphenol	81		91		30-130	12		50
2-Nitrophenol	91		99		30-130	8		50
4-Nitrophenol	105		**120**	Q	11-114	13		50
2,4-Dinitrophenol	91		106		4-130	15		50
4,6-Dinitro-o-cresol	88		100		10-130	13		50
Pentachlorophenol	80		95		17-109	17		50
Phenol	81		87		26-90	7		50
2-Methylphenol	86		94		30-130.	9		50
3-Methylphenol/4-Methylphenol	95		105		30-130	10		50
2,4,5-Trichlorophenol	95		107		30-130	12		50
Benzoic Acid	57		77		10-110	30		50
Benzyl Alcohol	91		100		40-140	9		50
Carbazole	82		98		54-128	18		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1506300-2 WG1506300-3								
1,4-Dioxane	57		63		40-140	10		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	85		92		25-120
Phenol-d6	87		95		10-120
Nitrobenzene-d5	91		99		23-120
2-Fluorobiphenyl	79		87		30-120
2,4,6-Tribromophenol	94		107		10-136
4-Terphenyl-d14	71		83		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,10 Batch: WG1506442-2 WG1506442-3								
Acenaphthene	80		80		31-137	0		50
1,2,4-Trichlorobenzene	75		71		38-107	5		50
Hexachlorobenzene	80		83		40-140	4		50
Bis(2-chloroethyl)ether	73		70		40-140	4		50
2-Chloronaphthalene	81		82		40-140	1		50
1,2-Dichlorobenzene	70		68		40-140	3		50
1,3-Dichlorobenzene	69		66		40-140	4		50
1,4-Dichlorobenzene	69		67		28-104	3		50
3,3'-Dichlorobenzidine	62		63		40-140	2		50
2,4-Dinitrotoluene	84		86		40-132	2		50
2,6-Dinitrotoluene	90		91		40-140	1		50
Fluoranthene	87		88		40-140	1		50
4-Chlorophenyl phenyl ether	81		81		40-140	0		50
4-Bromophenyl phenyl ether	82		83		40-140	1		50
Bis(2-chloroisopropyl)ether	66		63		40-140	5		50
Bis(2-chloroethoxy)methane	77		74		40-117	4		50
Hexachlorobutadiene	73		73		40-140	0		50
Hexachlorocyclopentadiene	80		80		40-140	0		50
Hexachloroethane	71		68		40-140	4		50
Isophorone	78		76		40-140	3		50
Naphthalene	75		75		40-140	0		50
Nitrobenzene	82		80		40-140	2		50
NDPA/DPA	84		85		36-157	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,10 Batch: WG1506442-2 WG1506442-3								
n-Nitrosodi-n-propylamine	80		78		32-121	3		50
Bis(2-ethylhexyl)phthalate	94		94		40-140	0		50
Butyl benzyl phthalate	97		97		40-140	0		50
Di-n-butylphthalate	92		93		40-140	1		50
Di-n-octylphthalate	96		94		40-140	2		50
Diethyl phthalate	83		84		40-140	1		50
Dimethyl phthalate	90		91		40-140	1		50
Benzo(a)anthracene	80		83		40-140	4		50
Benzo(a)pyrene	87		90		40-140	3		50
Benzo(b)fluoranthene	89		84		40-140	6		50
Benzo(k)fluoranthene	83		95		40-140	13		50
Chrysene	83		84		40-140	1		50
Acenaphthylene	81		82		40-140	1		50
Anthracene	84		85		40-140	1		50
Benzo(ghi)perylene	82		85		40-140	4		50
Fluorene	82		81		40-140	1		50
Phenanthrene	81		82		40-140	1		50
Dibenzo(a,h)anthracene	88		90		40-140	2		50
Indeno(1,2,3-cd)pyrene	84		90		40-140	7		50
Pyrene	85		86		35-142	1		50
Biphenyl	78		81		37-127	4		50
4-Chloroaniline	59		54		40-140	9		50
2-Nitroaniline	87		89		47-134	2		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,10 Batch: WG1506442-2 WG1506442-3								
3-Nitroaniline	67		62		26-129	8		50
4-Nitroaniline	75		74		41-125	1		50
Dibenzofuran	79		81		40-140	3		50
2-Methylnaphthalene	80		80		40-140	0		50
1,2,4,5-Tetrachlorobenzene	78		76		40-117	3		50
Acetophenone	73		70		14-144	4		50
2,4,6-Trichlorophenol	85		85		30-130	0		50
p-Chloro-m-cresol	86		90		26-103	5		50
2-Chlorophenol	75		74		25-102	1		50
2,4-Dichlorophenol	87		84		30-130	4		50
2,4-Dimethylphenol	86		84		30-130	2		50
2-Nitrophenol	83		79		30-130	5		50
4-Nitrophenol	72		73		11-114	1		50
2,4-Dinitrophenol	64		78		4-130	20		50
4,6-Dinitro-o-cresol	84		89		10-130	6		50
Pentachlorophenol	72		78		17-109	8		50
Phenol	82		80		26-90	2		50
2-Methylphenol	81		79		30-130.	3		50
3-Methylphenol/4-Methylphenol	88		86		30-130	2		50
2,4,5-Trichlorophenol	89		91		30-130	2		50
Benzoic Acid	47		63		10-110	29		50
Benzyl Alcohol	81		76		40-140	6		50
Carbazole	82		82		54-128	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,10 Batch: WG1506442-2 WG1506442-3								
1,4-Dioxane	51		50		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	76		72		25-120
Phenol-d6	73		70		10-120
Nitrobenzene-d5	76		76		23-120
2-Fluorobiphenyl	83		82		30-120
2,4,6-Tribromophenol	79		80		10-136
4-Terphenyl-d14	93		92		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1502698-3 WG1502698-4 QC Sample: L2127150-01 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	5.22	4.99	96		5.01	96		71-135	0		30
Perfluoropentanoic Acid (PFPeA)	ND	5.22	5.41	104		5.31	102		69-132	2		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.64	4.13	89		4.06	88		72-128	2		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.89	5.61	115		5.45	112		62-145	3		30
Perfluorohexanoic Acid (PFHxA)	0.056J	5.22	5.21	99		5.14	98		70-132	1		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.91	4.34	88		4.39	90		73-123	1		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.22	5.18	99		5.07	97		71-131	2		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.77	4.48	94		4.38	92		67-130	2		30
Perfluorooctanoic Acid (PFOA)	ND	5.22	5.32	102		5.04	97		69-133	5		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.97	5.65	114		5.78	117		64-140	2		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.97	5.25	106		4.94	100		70-132	6		30
Perfluorononanoic Acid (PFNA)	ND	5.22	6.22	119		5.84	112		72-129	6		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.85	5.22	108		4.95	102		68-136	5		30
Perfluorodecanoic Acid (PFDA)	ND	5.22	5.40	103		5.59	107		69-133	3		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.01	5.61	112		5.27	105		65-137	6		30
Perfluorononanesulfonic Acid (PFNS)	ND	5.02	4.96	99		4.87	97		69-125	2		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.22	5.75	110		5.31	102		63-144	8		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.22	5.48	105		5.76	111		64-136	5		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.03	5.26	104		4.99	99		59-134	5		30
Perfluorooctanesulfonamide (FOSA)	ND	5.22	5.00	96		4.87	94		67-137	3		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.22	5.62	108		4.84	93		61-139	15		30
Perfluorododecanoic Acid (PFDoA)	ND	5.22	5.50	105		5.34	102		69-135	3		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1502698-3 WG1502698-4 QC Sample: L2127150-01 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	5.22	6.78	130		6.23	120		66-139	8		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.22	6.40	123		6.44	124		69-133	1		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	117		114		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	74		79		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	94		96		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	114		129		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	98		101		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110		109		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	103		103		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91		94		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	106		112		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	115		119		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	104		108		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		102		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		102		58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	94		99		10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		105		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		103		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	84		87		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111		115		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1502698-5 WG1502698-6 QC Sample: L2125836-02 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	5.33	5.22	98		5.63	97		71-135	8		30
Perfluoropentanoic Acid (PFPeA)	ND	5.33	5.21	98		5.67	98		69-132	8		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.73	4.44	94		4.87	95		72-128	9		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.99	5.20	104		5.56	103		62-145	7		30
Perfluorohexanoic Acid (PFHxA)	0.065J	5.33	5.28	98		5.69	97		70-132	7		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	5.01	4.60	92		5.55	102		73-123	19		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.33	5.23	98		5.59	97		71-131	7		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.87	4.68	96		5.41	102		67-130	14		30
Perfluorooctanoic Acid (PFOA)	0.131J	5.33	5.28	97		5.74	97		69-133	8		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.07	5.36	106		5.93	108		64-140	10		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.07	5.15	102		5.08	92		70-132	1		30
Perfluorononanoic Acid (PFNA)	0.163J	5.33	5.29	96		5.82	98		72-129	10		30
Perfluorooctanesulfonic Acid (PFOS)	0.430	4.94	5.14	95		5.75	99		68-136	11		30
Perfluorodecanoic Acid (PFDA)	ND	5.33	5.27	99		5.68	98		69-133	7		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.12	5.55	108		6.10	110		65-137	9		30
Perfluorononanesulfonic Acid (PFNS)	ND	5.13	5.31	104		5.60	101		69-125	5		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.33	5.40	101		6.56	114		63-144	19		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.33	5.24	98		5.54	96		64-136	6		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.14	5.08	99		5.34	96		59-134	5		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.33	5.68	107		6.40	111		61-139	12		30
Perfluorododecanoic Acid (PFDoA)	ND	5.33	5.33	100		5.43	94		69-135	2		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.33	4.91	92		5.17	90		66-139	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1502698-5 WG1502698-6 QC Sample: L2125836-02 Client ID: MS Sample												
Perfluorotetradecanoic Acid (PFTA)	ND	5.33	5.66	106		6.16	107		69-133	8		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	108		111		19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	103		102		14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	132		129		20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	68		65		34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	72		63		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110		107		61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	109		106		75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	111		109		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	110		109		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	114		103		78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	102		99		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		81		24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	110		107		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	121		119		58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	115		111		79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	110		107		75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	107		103		72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	117		113		74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1502698-5 WG1502698-6 QC Sample: L2125836-02 Client ID: MS Sample												
Perfluorooctanesulfonamide (FOSA)	ND	5.33	5.13	96		5.08F	88		67-137	1		30

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	51		52		10-117

PCBS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03
Client ID: 1-B1 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 08:40
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/03/21 09:55
Analyst: JAW
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 03:35
Cleanup Method: EPA 3665A
Cleanup Date: 06/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.9	3.90	1	A
Aroclor 1221	ND		ug/kg	43.9	4.40	1	A
Aroclor 1232	ND		ug/kg	43.9	9.30	1	A
Aroclor 1242	ND		ug/kg	43.9	5.92	1	A
Aroclor 1248	ND		ug/kg	43.9	6.58	1	A
Aroclor 1254	ND		ug/kg	43.9	4.80	1	A
Aroclor 1260	ND		ug/kg	43.9	8.11	1	A
Aroclor 1262	ND		ug/kg	43.9	5.57	1	A
Aroclor 1268	ND		ug/kg	43.9	4.55	1	A
PCBs, Total	ND		ug/kg	43.9	3.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	41		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	40		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05
Client ID: 4-B1 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 10:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/03/21 10:03
Analyst: JAW
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 03:35
Cleanup Method: EPA 3665A
Cleanup Date: 06/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.1	3.65	1	A
Aroclor 1221	ND		ug/kg	41.1	4.12	1	A
Aroclor 1232	ND		ug/kg	41.1	8.71	1	A
Aroclor 1242	ND		ug/kg	41.1	5.54	1	A
Aroclor 1248	ND		ug/kg	41.1	6.16	1	A
Aroclor 1254	ND		ug/kg	41.1	4.50	1	A
Aroclor 1260	ND		ug/kg	41.1	7.59	1	A
Aroclor 1262	ND		ug/kg	41.1	5.22	1	A
Aroclor 1268	ND		ug/kg	41.1	4.26	1	A
PCBs, Total	ND		ug/kg	41.1	3.65	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07
Client ID: 10-B2 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 12:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/03/21 10:11
Analyst: JAW
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 03:35
Cleanup Method: EPA 3665A
Cleanup Date: 06/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	3.37	1	A
Aroclor 1221	ND		ug/kg	38.0	3.80	1	A
Aroclor 1232	ND		ug/kg	38.0	8.04	1	A
Aroclor 1242	ND		ug/kg	38.0	5.12	1	A
Aroclor 1248	ND		ug/kg	38.0	5.69	1	A
Aroclor 1254	553		ug/kg	38.0	4.15	1	B
Aroclor 1260	69.0		ug/kg	38.0	7.01	1	B
Aroclor 1262	ND		ug/kg	38.0	4.82	1	A
Aroclor 1268	ND		ug/kg	38.0	3.93	1	A
PCBs, Total	622		ug/kg	38.0	3.37	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	47		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09
Client ID: 9-B1 (6-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/03/21 10:19
Analyst: JAW
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 03:35
Cleanup Method: EPA 3665A
Cleanup Date: 06/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.7	3.44	1	A
Aroclor 1221	ND		ug/kg	38.7	3.88	1	A
Aroclor 1232	ND		ug/kg	38.7	8.21	1	A
Aroclor 1242	ND		ug/kg	38.7	5.22	1	A
Aroclor 1248	ND		ug/kg	38.7	5.81	1	A
Aroclor 1254	ND		ug/kg	38.7	4.23	1	A
Aroclor 1260	ND		ug/kg	38.7	7.15	1	A
Aroclor 1262	ND		ug/kg	38.7	4.92	1	A
Aroclor 1268	ND		ug/kg	38.7	4.01	1	A
PCBs, Total	ND		ug/kg	38.7	3.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	35		30-150	A
Decachlorobiphenyl	32		30-150	A
2,4,5,6-Tetrachloro-m-xylene	35		30-150	B
Decachlorobiphenyl	35		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/03/21 08:49
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 06/02/21 03:35
Cleanup Method: EPA 3665A
Cleanup Date: 06/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03,05,07,09 Batch: WG1506322-1						
Aroclor 1016	ND		ug/kg	31.9	2.84	A
Aroclor 1221	ND		ug/kg	31.9	3.20	A
Aroclor 1232	ND		ug/kg	31.9	6.77	A
Aroclor 1242	ND		ug/kg	31.9	4.31	A
Aroclor 1248	ND		ug/kg	31.9	4.79	A
Aroclor 1254	ND		ug/kg	31.9	3.50	A
Aroclor 1262	ND		ug/kg	31.9	4.06	A
Aroclor 1268	ND		ug/kg	31.9	3.31	A
Aroclor 1260	12.5	J	ug/kg	31.9	5.90	B
PCBs, Total	12.5	J	ug/kg	31.9	2.84	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	67		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1506322-2 WG1506322-3									
Aroclor 1016	64		66		40-140	3		50	A
Aroclor 1260	65		65		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		64		30-150	A
Decachlorobiphenyl	67		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		66		30-150	B
Decachlorobiphenyl	65		66		30-150	B

PESTICIDES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03
Client ID: 1-B1 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 08:40
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/02/21 16:39
Analyst: AR
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 02:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.03	0.397	1	A
Lindane	ND		ug/kg	0.845	0.378	1	A
Alpha-BHC	ND		ug/kg	0.845	0.240	1	A
Beta-BHC	ND		ug/kg	2.03	0.769	1	A
Heptachlor	ND		ug/kg	1.01	0.455	1	A
Aldrin	ND		ug/kg	2.03	0.714	1	A
Heptachlor epoxide	ND		ug/kg	3.80	1.14	1	A
Endrin	ND		ug/kg	0.845	0.346	1	A
Endrin aldehyde	ND		ug/kg	2.54	0.887	1	A
Endrin ketone	ND		ug/kg	2.03	0.522	1	A
Dieldrin	ND		ug/kg	1.27	0.634	1	A
4,4'-DDE	ND		ug/kg	2.03	0.469	1	A
4,4'-DDD	ND		ug/kg	2.03	0.723	1	A
4,4'-DDT	ND		ug/kg	3.80	1.63	1	A
Endosulfan I	ND		ug/kg	2.03	0.479	1	A
Endosulfan II	ND		ug/kg	2.03	0.678	1	A
Endosulfan sulfate	ND		ug/kg	0.845	0.402	1	A
Methoxychlor	ND		ug/kg	3.80	1.18	1	A
Toxaphene	ND		ug/kg	38.0	10.6	1	A
cis-Chlordane	ND		ug/kg	2.54	0.706	1	A
trans-Chlordane	ND		ug/kg	2.54	0.669	1	A
Chlordane	ND		ug/kg	16.9	6.72	1	A

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03 Date Collected: 05/20/21 08:40

Client ID: 1-B1 (7.5-8.5) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**151**	Q	30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05
Client ID: 4-B1 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 10:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/02/21 16:51
Analyst: AR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 02:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.02	0.395	1	A
Lindane	ND		ug/kg	0.840	0.375	1	A
Alpha-BHC	ND		ug/kg	0.840	0.238	1	A
Beta-BHC	ND		ug/kg	2.02	0.764	1	A
Heptachlor	ND		ug/kg	1.01	0.452	1	A
Aldrin	ND		ug/kg	2.02	0.710	1	A
Heptachlor epoxide	ND		ug/kg	3.78	1.13	1	A
Endrin	ND		ug/kg	0.840	0.344	1	A
Endrin aldehyde	ND		ug/kg	2.52	0.882	1	A
Endrin ketone	ND		ug/kg	2.02	0.519	1	A
Dieldrin	ND		ug/kg	1.26	0.630	1	A
4,4'-DDE	ND		ug/kg	2.02	0.466	1	A
4,4'-DDD	ND		ug/kg	2.02	0.719	1	A
4,4'-DDT	ND		ug/kg	3.78	1.62	1	A
Endosulfan I	ND		ug/kg	2.02	0.476	1	A
Endosulfan II	ND		ug/kg	2.02	0.673	1	A
Endosulfan sulfate	ND		ug/kg	0.840	0.400	1	A
Methoxychlor	ND		ug/kg	3.78	1.18	1	A
Toxaphene	ND		ug/kg	37.8	10.6	1	A
cis-Chlordane	ND		ug/kg	2.52	0.702	1	A
trans-Chlordane	ND		ug/kg	2.52	0.665	1	A
Chlordane	ND		ug/kg	16.8	6.68	1	A

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05 Date Collected: 05/20/21 10:30

Client ID: 4-B1 (6.5-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07
Client ID: 10-B2 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 12:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/02/21 17:04
Analyst: AR
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 02:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.79	0.350	1	A
Lindane	ND		ug/kg	0.746	0.333	1	A
Alpha-BHC	ND		ug/kg	0.746	0.212	1	A
Beta-BHC	ND		ug/kg	1.79	0.678	1	A
Heptachlor	ND		ug/kg	0.895	0.401	1	A
Aldrin	ND		ug/kg	1.79	0.630	1	A
Heptachlor epoxide	ND		ug/kg	3.35	1.01	1	A
Endrin	ND		ug/kg	0.746	0.306	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.783	1	A
Endrin ketone	ND		ug/kg	1.79	0.461	1	A
Dieldrin	ND		ug/kg	1.12	0.559	1	A
4,4'-DDE	ND		ug/kg	1.79	0.414	1	A
4,4'-DDD	ND		ug/kg	1.79	0.638	1	A
4,4'-DDT	ND		ug/kg	3.35	1.44	1	A
Endosulfan I	ND		ug/kg	1.79	0.423	1	A
Endosulfan II	ND		ug/kg	1.79	0.598	1	A
Endosulfan sulfate	ND		ug/kg	0.746	0.355	1	A
Methoxychlor	ND		ug/kg	3.35	1.04	1	A
Toxaphene	ND		ug/kg	33.5	9.39	1	A
cis-Chlordane	ND		ug/kg	2.24	0.623	1	A
trans-Chlordane	ND		ug/kg	2.24	0.590	1	A
Chlordane	ND		ug/kg	14.9	5.93	1	A

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07 Date Collected: 05/20/21 12:15

Client ID: 10-B2 (8.5-9) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**213**	Q	30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	129		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09
Client ID: 9-B1 (6-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/02/21 13:18
Analyst: AR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/02/21 02:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	0.365	1	A
Lindane	ND		ug/kg	0.776	0.347	1	A
Alpha-BHC	ND		ug/kg	0.776	0.220	1	A
Beta-BHC	ND		ug/kg	1.86	0.706	1	A
Heptachlor	ND		ug/kg	0.931	0.418	1	A
Aldrin	ND		ug/kg	1.86	0.656	1	A
Heptachlor epoxide	ND		ug/kg	3.49	1.05	1	A
Endrin	ND		ug/kg	0.776	0.318	1	A
Endrin aldehyde	ND		ug/kg	2.33	0.815	1	A
Endrin ketone	ND		ug/kg	1.86	0.480	1	A
Dieldrin	ND		ug/kg	1.16	0.582	1	A
4,4'-DDE	ND		ug/kg	1.86	0.431	1	A
4,4'-DDD	ND		ug/kg	1.86	0.664	1	A
4,4'-DDT	ND		ug/kg	3.49	1.50	1	A
Endosulfan I	ND		ug/kg	1.86	0.440	1	A
Endosulfan II	ND		ug/kg	1.86	0.622	1	A
Endosulfan sulfate	ND		ug/kg	0.776	0.369	1	A
Methoxychlor	ND		ug/kg	3.49	1.09	1	A
Toxaphene	ND		ug/kg	34.9	9.78	1	A
cis-Chlordane	ND		ug/kg	2.33	0.649	1	A
trans-Chlordane	ND		ug/kg	2.33	0.615	1	A
Chlordane	ND		ug/kg	15.5	6.17	1	A

Project Name: AVANT GARDNER **Lab Number:** L2126901

Project Number: 17244793 **Report Date:** 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09 Date Collected: 05/20/21 07:30

Client ID: 9-B1 (6-7) Date Received: 05/21/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/02/21 14:09
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 06/02/21 02:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03,05,07,09 Batch: WG1506308-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.638	0.285	A
Alpha-BHC	ND		ug/kg	0.638	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.581	A
Heptachlor	ND		ug/kg	0.766	0.344	A
Aldrin	ND		ug/kg	1.53	0.540	A
Heptachlor epoxide	ND		ug/kg	2.87	0.862	A
Endrin	ND		ug/kg	0.638	0.262	A
Endrin aldehyde	ND		ug/kg	1.92	0.670	A
Endrin ketone	ND		ug/kg	1.53	0.395	A
Dieldrin	ND		ug/kg	0.958	0.479	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.547	A
4,4'-DDT	ND		ug/kg	2.87	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.512	A
Endosulfan sulfate	ND		ug/kg	0.638	0.304	A
Methoxychlor	ND		ug/kg	2.87	0.894	A
Toxaphene	ND		ug/kg	28.7	8.04	A
cis-Chlordane	ND		ug/kg	1.92	0.534	A
trans-Chlordane	ND		ug/kg	1.92	0.506	A
Chlordane	ND		ug/kg	12.8	5.08	A

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/02/21 14:09
Analyst: AR

Extraction Method: EPA 3546
Extraction Date: 06/02/21 02:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/02/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03,05,07,09 Batch: WG1506308-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	85		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1506308-2 WG1506308-3									
Delta-BHC	80		83		30-150	4		30	A
Lindane	81		85		30-150	5		30	A
Alpha-BHC	86		91		30-150	6		30	A
Beta-BHC	70		73		30-150	4		30	A
Heptachlor	80		88		30-150	10		30	A
Aldrin	81		86		30-150	6		30	A
Heptachlor epoxide	74		78		30-150	5		30	A
Endrin	81		86		30-150	6		30	A
Endrin aldehyde	46		51		30-150	10		30	A
Endrin ketone	64		66		30-150	3		30	A
Dieldrin	85		89		30-150	5		30	A
4,4'-DDE	82		86		30-150	5		30	A
4,4'-DDD	81		85		30-150	5		30	A
4,4'-DDT	79		82		30-150	4		30	A
Endosulfan I	76		80		30-150	5		30	A
Endosulfan II	75		78		30-150	4		30	A
Endosulfan sulfate	50		51		30-150	2		30	A
Methoxychlor	62		69		30-150	11		30	A
cis-Chlordane	67		70		30-150	4		30	A
trans-Chlordane	83		87		30-150	5		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03,05,07,09 Batch: WG1506308-2 WG1506308-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		83		30-150	A
Decachlorobiphenyl	83		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		79		30-150	B
Decachlorobiphenyl	91		95		30-150	B

METALS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03
Client ID: 1-B1 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/20/21 08:40
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5750		mg/kg	9.90	2.67	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Antimony, Total	2.64	J	mg/kg	4.95	0.376	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Arsenic, Total	18.0		mg/kg	0.990	0.206	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Barium, Total	144		mg/kg	0.990	0.172	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Beryllium, Total	0.356	J	mg/kg	0.495	0.033	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Cadmium, Total	1.13		mg/kg	0.990	0.097	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Calcium, Total	7150		mg/kg	9.90	3.47	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Chromium, Total	17.0		mg/kg	0.990	0.095	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Cobalt, Total	12.1		mg/kg	1.98	0.164	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Copper, Total	76.9		mg/kg	0.990	0.256	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Iron, Total	29600		mg/kg	4.95	0.894	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Lead, Total	917		mg/kg	4.95	0.265	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Magnesium, Total	2380		mg/kg	9.90	1.52	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Manganese, Total	311		mg/kg	0.990	0.157	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Mercury, Total	1.87		mg/kg	0.083	0.054	1	05/27/21 11:20	05/31/21 14:45	EPA 7471B	1,7471B	OU
Nickel, Total	16.3		mg/kg	2.48	0.240	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Potassium, Total	525		mg/kg	248	14.3	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Selenium, Total	0.812	J	mg/kg	1.98	0.256	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.990	0.280	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Sodium, Total	143	J	mg/kg	198	3.12	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.98	0.312	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Vanadium, Total	20.1		mg/kg	0.990	0.201	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV
Zinc, Total	228		mg/kg	4.95	0.290	2	05/27/21 10:50	05/28/21 17:09	EPA 3050B	1,6010D	SV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05
Client ID: 4-B1 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/20/21 10:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2890		mg/kg	9.94	2.68	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Antimony, Total	6.19		mg/kg	4.97	0.378	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Arsenic, Total	10.3		mg/kg	0.994	0.207	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Barium, Total	95.5		mg/kg	0.994	0.173	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Beryllium, Total	0.139	J	mg/kg	0.497	0.033	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Cadmium, Total	0.795	J	mg/kg	0.994	0.097	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Calcium, Total	3860		mg/kg	9.94	3.48	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Chromium, Total	12.5		mg/kg	0.994	0.095	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Cobalt, Total	3.84		mg/kg	1.99	0.165	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Copper, Total	156		mg/kg	0.994	0.256	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Iron, Total	27200		mg/kg	4.97	0.897	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Lead, Total	372		mg/kg	4.97	0.266	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Magnesium, Total	1490		mg/kg	9.94	1.53	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Manganese, Total	194		mg/kg	0.994	0.158	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Mercury, Total	1.86		mg/kg	0.080	0.052	1	05/27/21 11:20	05/31/21 14:48	EPA 7471B	1,7471B	OU
Nickel, Total	18.4		mg/kg	2.48	0.240	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Potassium, Total	631		mg/kg	248	14.3	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Selenium, Total	1.04	J	mg/kg	1.99	0.256	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.994	0.281	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Sodium, Total	164	J	mg/kg	199	3.13	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.99	0.313	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Vanadium, Total	12.1		mg/kg	0.994	0.202	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV
Zinc, Total	203		mg/kg	4.97	0.291	2	05/27/21 10:50	05/28/21 17:13	EPA 3050B	1,6010D	SV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07
Client ID: 10-B2 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/20/21 12:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4960		mg/kg	9.25	2.50	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Antimony, Total	0.906	J	mg/kg	4.62	0.351	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Arsenic, Total	28.8		mg/kg	0.925	0.192	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Barium, Total	255		mg/kg	0.925	0.161	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Beryllium, Total	0.324	J	mg/kg	0.462	0.031	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Cadmium, Total	1.06		mg/kg	0.925	0.091	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Calcium, Total	4820		mg/kg	9.25	3.24	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Chromium, Total	58.1		mg/kg	0.925	0.089	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Cobalt, Total	4.22		mg/kg	1.85	0.154	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Copper, Total	102		mg/kg	0.925	0.239	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Iron, Total	13800		mg/kg	4.62	0.835	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Lead, Total	1250		mg/kg	4.62	0.248	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Magnesium, Total	1390		mg/kg	9.25	1.42	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Manganese, Total	254		mg/kg	0.925	0.147	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Mercury, Total	1.62		mg/kg	0.074	0.048	1	05/27/21 11:20	05/31/21 14:51	EPA 7471B	1,7471B	OU
Nickel, Total	8.90		mg/kg	2.31	0.224	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Potassium, Total	516		mg/kg	231	13.3	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Selenium, Total	0.518	J	mg/kg	1.85	0.239	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.925	0.262	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Sodium, Total	243		mg/kg	185	2.91	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.85	0.291	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Vanadium, Total	14.8		mg/kg	0.925	0.188	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV
Zinc, Total	302		mg/kg	4.62	0.271	2	05/27/21 10:50	05/28/21 17:18	EPA 3050B	1,6010D	SV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09
Client ID: 9-B1 (6-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/20/21 07:30
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6720		mg/kg	9.05	2.44	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Antimony, Total	0.344	J	mg/kg	4.52	0.344	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Arsenic, Total	3.38		mg/kg	0.905	0.188	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Barium, Total	63.6		mg/kg	0.905	0.157	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Beryllium, Total	0.416	J	mg/kg	0.452	0.030	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Cadmium, Total	0.434	J	mg/kg	0.905	0.089	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Calcium, Total	8840		mg/kg	9.05	3.17	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Chromium, Total	17.3		mg/kg	0.905	0.087	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Cobalt, Total	8.92		mg/kg	1.81	0.150	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Copper, Total	37.8		mg/kg	0.905	0.233	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Iron, Total	19400		mg/kg	4.52	0.817	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Lead, Total	73.6		mg/kg	4.52	0.242	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Magnesium, Total	2780		mg/kg	9.05	1.39	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Manganese, Total	716		mg/kg	0.905	0.144	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Mercury, Total	0.304		mg/kg	0.075	0.049	1	05/27/21 11:20	05/31/21 14:55	EPA 7471B	1,7471B	OU
Nickel, Total	14.3		mg/kg	2.26	0.219	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Potassium, Total	3150		mg/kg	226	13.0	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Selenium, Total	0.353	J	mg/kg	1.81	0.233	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Silver, Total	ND		mg/kg	0.905	0.256	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Sodium, Total	187		mg/kg	181	2.85	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Thallium, Total	ND		mg/kg	1.81	0.285	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Vanadium, Total	35.2		mg/kg	0.905	0.184	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV
Zinc, Total	65.3		mg/kg	4.52	0.265	2	05/27/21 10:50	05/28/21 17:23	EPA 3050B	1,6010D	SV

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03,05,07,09 Batch: WG1504105-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Barium, Total	ND		mg/kg	0.400	0.070	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Calcium, Total	6.04		mg/kg	4.00	1.40	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Copper, Total	ND		mg/kg	0.400	0.103	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Iron, Total	3.04		mg/kg	2.00	0.361	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Lead, Total	ND		mg/kg	2.00	0.107	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Manganese, Total	0.124	J	mg/kg	0.400	0.064	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Potassium, Total	ND		mg/kg	100	5.76	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Silver, Total	ND		mg/kg	0.400	0.113	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Sodium, Total	ND		mg/kg	80.0	1.26	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/27/21 10:50	05/28/21 14:14	1,6010D	GD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03,05,07,09 Batch: WG1504106-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/27/21 11:20	05/31/21 14:19	1,7471B	OU

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 Batch: WG1504105-2 SRM Lot Number: D109-540								
Aluminum, Total	61		-		50-150	-		
Antimony, Total	178		-		19-250	-		
Arsenic, Total	115		-		70-130	-		
Barium, Total	100		-		75-125	-		
Beryllium, Total	108		-		75-125	-		
Cadmium, Total	106		-		75-125	-		
Calcium, Total	102		-		73-128	-		
Chromium, Total	105		-		70-130	-		
Cobalt, Total	105		-		75-125	-		
Copper, Total	105		-		75-125	-		
Iron, Total	89		-		35-165	-		
Lead, Total	108		-		72-128	-		
Magnesium, Total	88		-		62-138	-		
Manganese, Total	103		-		74-126	-		
Nickel, Total	106		-		70-130	-		
Potassium, Total	83		-		59-141	-		
Selenium, Total	118		-		68-132	-		
Silver, Total	110		-		68-131	-		
Sodium, Total	108		-		35-165	-		
Thallium, Total	107		-		68-131	-		
Vanadium, Total	102		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 Batch: WG1504105-2 SRM Lot Number: D109-540					
Zinc, Total	108	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 Batch: WG1504106-2 SRM Lot Number: D109-540					
Mercury, Total	93	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504105-3 QC Sample: L2127504-01 Client ID: MS Sample												
Aluminum, Total	7200	157	6940	**0**	Q	-	-		75-125	-		20
Antimony, Total	ND	39.2	34.3	87		-	-		75-125	-		20
Arsenic, Total	2.44	9.41	12.5	107		-	-		75-125	-		20
Barium, Total	102	157	225	78		-	-		75-125	-		20
Beryllium, Total	0.384J	3.92	4.38	112		-	-		75-125	-		20
Cadmium, Total	0.431J	4	3.87	97		-	-		75-125	-		20
Calcium, Total	93800B	784	86600	**0**	Q	-	-		75-125	-		20
Chromium, Total	10.5	15.7	23.5	83		-	-		75-125	-		20
Cobalt, Total	7.80	39.2	41.6	86		-	-		75-125	-		20
Copper, Total	14.3	19.6	32.5	93		-	-		75-125	-		20
Iron, Total	13300B	78.4	11900	**0**	Q	-	-		75-125	-		20
Lead, Total	13.2	40	45.8	82		-	-		75-125	-		20
Magnesium, Total	14400	784	18100	**472**	Q	-	-		75-125	-		20
Manganese, Total	248	39.2	300	**133**	Q	-	-		75-125	-		20
Nickel, Total	6.21	39.2	38.9	83		-	-		75-125	-		20
Potassium, Total	2020	784	2500	**61**	Q	-	-		75-125	-		20
Selenium, Total	0.525J	9.41	10.4	110		-	-		75-125	-		20
Silver, Total	2.48	23.5	26.6	102		-	-		75-125	-		20
Sodium, Total	1000	784	1650	83		-	-		75-125	-		20
Thallium, Total	ND	9.41	6.85	**73**	Q	-	-		75-125	-		20
Vanadium, Total	14.2	39.2	50.9	94		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504105-3 QC Sample: L2127504-01 Client ID: MS Sample										
Zinc, Total	39.9	39.2	68.4	**73**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504106-3 QC Sample: L2127090-01 Client ID: MS Sample										
Mercury, Total	0.086	0.135	0.270	**136**	Q	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504105-4 QC Sample: L2127504-01 Client ID: DUP Sample						
Aluminum, Total	7200	6500	mg/kg	10		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	2.44	2.12	mg/kg	14		20
Barium, Total	102	117	mg/kg	14		20
Beryllium, Total	0.384J	0.341J	mg/kg	NC		20
Cadmium, Total	0.431J	0.256J	mg/kg	NC		20
Chromium, Total	10.5	8.67	mg/kg	19		20
Cobalt, Total	7.80	6.90	mg/kg	12		20
Copper, Total	14.3	12.0	mg/kg	17		20
Iron, Total	13300B	12400	mg/kg	7		20
Lead, Total	13.2	9.28	mg/kg	**35**	Q	20
Magnesium, Total	14400	18600	mg/kg	**25**	Q	20
Manganese, Total	248	232	mg/kg	7		20
Nickel, Total	6.21	5.65	mg/kg	9		20
Potassium, Total	2020	1820	mg/kg	10		20
Selenium, Total	0.525J	0.489J	mg/kg	NC		20
Silver, Total	2.48	0.566J	mg/kg	NC		20
Sodium, Total	1000	890	mg/kg	12		20
Thallium, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504105-4 QC Sample: L2127504-01 Client ID: DUP Sample						
Vanadium, Total	14.2	13.4	mg/kg	6		20
Zinc, Total	39.9	29.9	mg/kg	**29**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504105-4 QC Sample: L2127504-01 Client ID: DUP Sample						
Calcium, Total	93800B	95200	mg/kg	1		20
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504106-4 QC Sample: L2127090-01 Client ID: DUP Sample						
Mercury, Total	0.086	0.086	mg/kg	1		20

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2126901
Report Date: 06/28/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504105-6 QC Sample: L2127504-01 Client ID: DUP Sample						
Aluminum, Total	7200	7860	mg/kg	9		20
Barium, Total	102	114	mg/kg	12		20
Iron, Total	13300B	15300	mg/kg	15		20
Magnesium, Total	14400	17500	mg/kg	**22**	Q	20
Manganese, Total	248	287	mg/kg	16		20
Total Metals - Mansfield Lab Associated sample(s): 03,05,07,09 QC Batch ID: WG1504105-6 QC Sample: L2127504-01 Client ID: DUP Sample						
Calcium, Total	93800B	97000	mg/kg	3		20

INORGANICS
&
MISCELLANEOUS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-01
Client ID: 2-B1 (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/20/21 07:00
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-02
Client ID: 2-B1 (24.5-25)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 07:35
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.3		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-03
Client ID: 1-B1 (7.5-8.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/20/21 08:40
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.8		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-04
Client ID: 1-B1 (24.5-25)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/20/21 09:15
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	43.0		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-05
Client ID: 4-B1 (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/20/21 10:30
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.5		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-06
Client ID: 4-B1 (24-24.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/20/21 11:00
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	49.6		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-07
Client ID: 10-B2 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/20/21 12:15
Date Received: 05/21/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-08
Client ID: 10-B2 (34.5-35)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/20/21 13:00
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-09
Client ID: 9-B1 (6-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/20/21 07:30
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.6		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

SAMPLE RESULTS

Lab ID: L2126901-10
Client ID: 9-B1 (8.5-9)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/20/21 07:45
Date Received: 05/21/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.7		%	0.100	NA	1	-	05/22/21 09:22	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2126901

Report Date: 06/28/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1502359-1 QC Sample: L2126678-01 Client ID: DUP Sample						
Solids, Total	92.3	92.5	%	0		20

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126901-01A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-01B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-01C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-01D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L2126901-01E	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14)
L2126901-01X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-01Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-01Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-02A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-02B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-02C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-02D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-02X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-02Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-02Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-03A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-03B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-03C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-03D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-03E	Plastic 120ml unpreserved	B	NA		3.9	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126901-03F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),HG-T(28),FE-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2126901-03G	Plastic 8oz unpreserved	B	NA		3.9	Y	Absent		A2-NY-537-ISOTOPE(14)
L2126901-03H	Glass 250ml/8oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2126901-03X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-03Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-03Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-04A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-04B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-04C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-04D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-04X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-04Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-04Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-05A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-05B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-05C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-05D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-05E	Plastic 120ml unpreserved	B	NA		3.9	Y	Absent		TS(7)
L2126901-05F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),FE-TI(180),MG-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2126901-05G	Plastic 8oz unpreserved	B	NA		3.9	Y	Absent		A2-NY-537-ISOTOPE(14)
L2126901-05H	Glass 250ml/8oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2126901-05X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-05Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2126901
Report Date: 06/28/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126901-05Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-06A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-06B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-06C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-06D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-06X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-06Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-06Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-07A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-07B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-07C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-07D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-07E	Plastic 120ml unpreserved	B	NA		3.9	Y	Absent		TS(7)
L2126901-07F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2126901-07G	Plastic 8oz unpreserved	B	NA		3.9	Y	Absent		A2-NY-537-ISOTOPE(14)
L2126901-07H	Glass 250ml/8oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2126901-07X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-07Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-07Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-08A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-08B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-08C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-08D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-08X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-08Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2126901-08Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-09A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-09B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-09C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-09D	Plastic 120ml unpreserved	A	NA		3.9	Y	Absent		TS(7)
L2126901-09E	Plastic 120ml unpreserved	B	NA		3.9	Y	Absent		TS(7)
L2126901-09F	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2126901-09G	Plastic 8oz unpreserved	B	NA		3.9	Y	Absent		A2-NY-537-ISOTOPE(14)
L2126901-09H	Glass 250ml/8oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(365)
L2126901-09X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-09Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-09Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-10A	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-10B	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-10C	5 gram Encore Sampler	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-10D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L2126901-10E	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14)
L2126901-10X	Vial MeOH preserved split	A	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L2126901-10Y	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)
L2126901-10Z	Vial Water preserved split	A	NA		3.9	Y	Absent	22-MAY-21 05:52	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2126901
Report Date: 06/28/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	AVANT GARDNER	**Lab Number:**	L2126901
Project Number:	17244793	**Report Date:**	06/28/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2126901
Project Number:	17244793	**Report Date:**	06/28/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2126901
Project Number:	17244793	**Report Date:**	06/28/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Project Name:	AVANT GARDNER	**Lab Number:**	L2126901
Project Number:	17244793	**Report Date:**	06/28/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 5/21/21

ALPHA Job #: L2126901

Client Information

Client: PSG (Partner)
Address: 611 Industrial Way W
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLen te partnereserv.com

Project Information

Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project # 172433 13
(Use Project name as Project #) [X]
Project Manager: David Lent.
ALPHAQuote #:

Turn-Around Time

Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL. TAL Metals

Deliverables

- [ ] ASP-A
- [ ] ASP-B
- [X] EQuIS (1 File)
- [X] EQuIS (4 File)
- [ ] Other

Regulatory Requirement

- [X] NY TOGS
- [ ] NY Part 375
- [X] AWQ Standards
- [X] NY CP-51
- [X] NY Restricted Use
- [ ] Other
- [X] NY Unrestricted Use
- [ ] NYC Sewer Discharge

Billing Information

- [X] Same as Client Info

PO # 17243313

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
- [ ] NJ
- [ ] NY
- [ ] Other:

ANALYSIS

Sample Filtration
- [ ] Done
- [ ] Lab to do

Preservation
- [ ] Lab to do

(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs (8260)	SVOCs (8270)	TAL Metals	PCBs	Pesticides	PFAs	1,4 Dioxane	Sample Specific Comments
26901-01	2-B1 (7.5-8)	5-20	700	AH	S	X	X						
-02	2-B1 (24.5-25)	5-20	735	AH	S	X							
-03	1-B1 (7.5-8.5)	5-20	840	AH	S	X	X	X	X	X	X	X	
-04	1-B1 (24-24.5)	5-20	915	AH	S	X							
-05	4-B1 (6.5-7)	5-20	1030	AH	S	X	X	X	X	X	X	X	
-06	4-B1 (24-24.5)	5-20	1100	AH	S	X							
-07	10-B2	5-20	1215	AH	S	X	X	X	X	X	X	X	
-08	10-B2 (34.5-35)	5-20	1300	AH	S	X							
-09	9-B1 (6-7)	5-21	730	AH	S	X	X	X	X	X	X	X	
-10	9-B1 (8.5-9)	5-21	745	AH	S	X	X						
	Container Type					E	A	A	A	A	P	A	
	Preservative					A	A	A	A	A	A	A	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/21/21 1900		
	5/21/21 12:10	Alpha	5/21/21 08:40

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 5/21/21

ALPHA Job #: L2126901

Client Information
Client: PSG (Partner)
Address: 611 Industrial Way W
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLent@partnereseiam

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project # 17243313
(Use Project name as Project #) [X]
Project Manager: David Lent.
ALPHAQuote #:

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables
- [ ] ASP-A
- [ ] ASP-B
- [X] EQuIS (1 File)
- [X] EQuIS (4 File)
- [ ] Other

Regulatory Requirement
- [X] NY TOGS
- [X] AWQ Standards
- [X] NY Restricted Use
- [X] NY Unrestricted Use
- [ ] NYC Sewer Discharge
- [ ] NY Part 375
- [X] NY CP-51
- [ ] Other

Billing Information
- [X] Same as Client Info

PO # 17243313

Disposal Site Information
Please identify below location of applicable disposal facilities.

Disposal Facility:
- [ ] NJ
- [ ] NY
- [ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL. TAL Metals

ANALYSIS

Sample Filtration
- [ ] Done
- [ ] Lab to do

Preservation
- [ ] Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs (8260)	SVOCs (8270)	TAL Metals	PCBs	Pesticides	PFAs	1,4 Dioxane	Total Bottle	Sample Specific Comments
26901-01	2-B1 (7.5-8)	5-20	700	AH	S	X	X							
-02	2-B1 (24.5-25)	5-20	735	AH	S	X								
-03	1-B1 (7.5-8.5)	5-20	840	AH	S	X	X	X	X	X	X	X		
-04	1-B1 (24-24.5)	5-20	915	AH	S	X								
-05	4-B1 (6.5-7)	5-20	1030	AH	S	X	X	X	X	X	X	X		
-06	4-B1 (24-24.5)	5-20	1100	AH	S	X								
-07	10-B2	5-20	1215	AH	S	X	X	Y	V	V	X	X		
-08	10-B2 (34.5-35)	5-20	1300	AH	S	X								
-09	9-B1 (6-7)	5-21	730	AH	S	X	X	X	X	X	X	X		
-10	9-B1 (8.5-9)	5-21	745	AH	S	X	X							
	Container Type					E	A	A	A	A	P	A		
	Preservative					A	A	A	A	A	A	A		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/21 1400		
	5/21/21 12:10	Alpha	5/21/21 18:40

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Serial_No:06282118:03

UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   Customers with a Daily Pickup
   Your driver will pickup your shipment(s) as usual.

   Customers without a Daily Pickup
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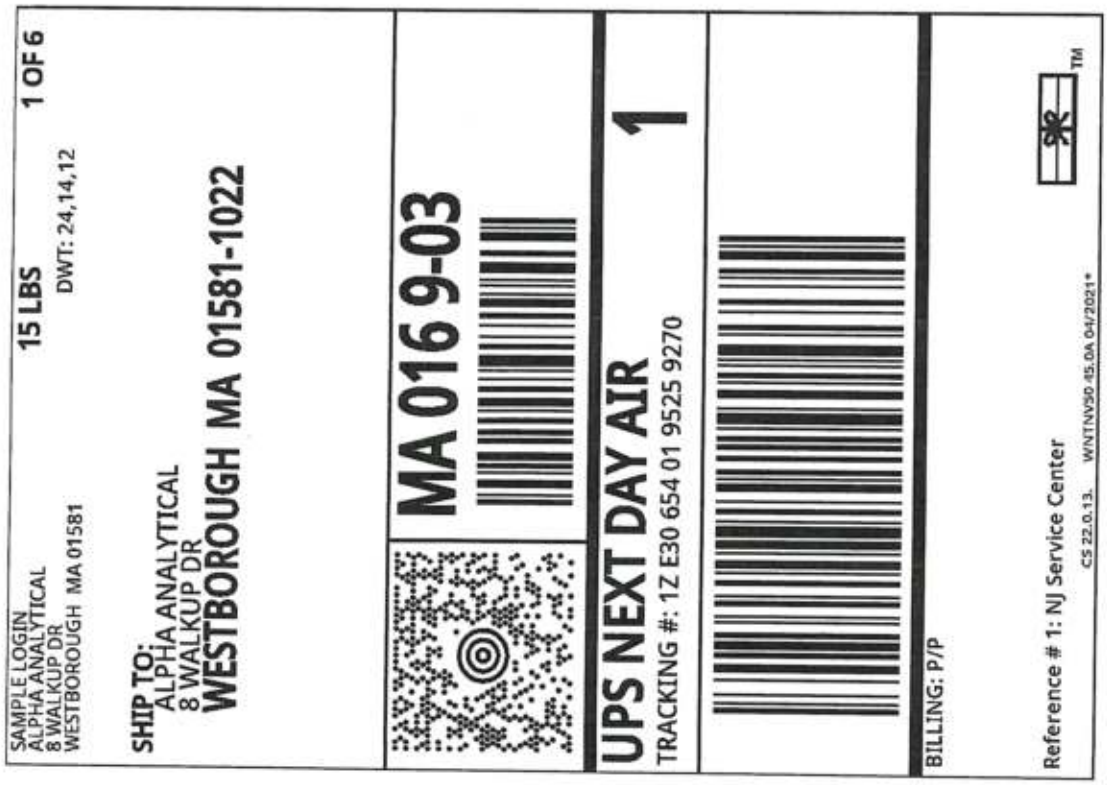

ANALYTICAL REPORT

Lab Number:	L2335541
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER
Project Number:	ES22-387153
Report Date:	07/19/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2335541-01	8B-1N-GW	WATER	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:00	06/21/23
L2335541-02	8B-1NN-GW	WATER	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:00	06/21/23
L2335541-03	8B-1E-GW	WATER	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:00	06/21/23
L2335541-04	8B-1S-GW	WATER	140 STEWART AVE., BROOKLYN, NY	06/20/23 11:00	06/21/23
L2335541-05	8B-1SS-GW	WATER	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:00	06/21/23
L2335541-06	8B-1W-GW	WATER	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:15	06/21/23
L2335541-07	8B-1WW-GW	WATER	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:30	06/21/23
L2335541-08	8B-1N (5.0-5.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 11:15	06/21/23
L2335541-09	8B-1NN (1.5-2.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:30	06/21/23
L2335541-10	8B-1NN (4.5-5.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:35	06/21/23
L2335541-11	8B-1NN (6.0-6.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:40	06/21/23
L2335541-12	8B-1E (6.0-6.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:50	06/21/23
L2335541-13	8B-1S (1.5-2.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:55	06/21/23
L2335541-14	8B-1S (4.5-5.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:00	06/21/23
L2335541-15	8B-1S (6.5-7.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:05	06/21/23
L2335541-16	8B-1SS (1.5-2.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:20	06/21/23
L2335541-17	8B-1SS (4.5-5.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:25	06/21/23
L2335541-18	8B-1SS (6.5-7.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:30	06/21/23
L2335541-19	8B-1W (1.5-2.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:35	06/21/23
L2335541-20	8B-1W (4.5-5.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:40	06/21/23
L2335541-21	8B-1W (6.5-7.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:45	06/21/23
L2335541-22	8B-1W (6.5-7.0) DUP	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:45	06/21/23
L2335541-23	8B-1WW (1.0-1.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 11:45	06/21/23
L2335541-24	8B-1WW (4.5-5.0)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 11:50	06/21/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2335541-25	8B-1WW (6.0-6.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:00	06/21/23
L2335541-26	7-B1W (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 08:50	06/21/23
L2335541-27	7-B1W (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 08:55	06/21/23
L2335541-28	7-B1W (6.5-7)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:00	06/21/23
L2335541-29	7-B1WW (1-1.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 08:30	06/21/23
L2335541-30	7-B1WW (4-4.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 08:35	06/21/23
L2335541-31	7-B1WW (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 08:40	06/21/23
L2335541-32	7-B1E (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:15	06/21/23
L2335541-33	7-B1E (4-4.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:20	06/21/23
L2335541-34	7-B1E (5.5-6)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:25	06/21/23
L2335541-35	7-B1N (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:30	06/21/23
L2335541-36	7-B1N (4-4.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 09:35	06/21/23
L2335541-37	7-B1NN (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:00	06/21/23
L2335541-38	7-B1NN (4-4.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:05	06/21/23
L2335541-39	7-B1NN (5.5-6)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:10	06/21/23
L2335541-40	7-B1S (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:20	06/21/23
L2335541-41	7-B1S (4-4.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:25	06/21/23
L2335541-42	7-B1S (5.5-6)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 10:30	06/21/23
L2335541-43	7-B1SS (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 11:35	06/21/23
L2335541-44	7-B1SS (5-5.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 11:40	06/21/23
L2335541-45	10-B6W (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:00	06/21/23
L2335541-46	10-B6W (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:05	06/21/23
L2335541-47	10-B6W (7.5-8)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 12:10	06/21/23
L2335541-48	10-B6WW (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:00	06/21/23
L2335541-49	10-B6WW (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:05	06/21/23
L2335541-50	10-B6WW (9.5-10)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:10	06/21/23
L2335541-51	10-B6N (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:30	06/21/23
L2335541-52	10-B6N (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:35	06/21/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2335541-53	10-B6N (9.5-10)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 13:40	06/21/23
L2335541-54	10-B6E (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:20	06/21/23
L2335541-55	10-B6E (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:25	06/21/23
L2335541-56	10-B6E (9.5-10)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:30	06/21/23
L2335541-57	10-B6EE (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:00	06/21/23
L2335541-58	10-B6EE (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:05	06/21/23
L2335541-59	10-B6EE (5-5.5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:10	06/21/23
L2335541-60	10-B6S (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:40	06/21/23
L2335541-61	10-B6S (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:45	06/21/23
L2335541-62	10-B6S (9.5-10)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 14:50	06/21/23
L2335541-63	10-B6SS (1.5-2)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 15:00	06/21/23
L2335541-64	10-B6SS (4.5-5)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 15:05	06/21/23
L2335541-65	10-B6SS (9.5-10)	SOIL	140 STEWART AVE., BROOKLYN, NY	06/20/23 15:10	06/21/23

Project Name:	AVANT GARDNER	**Lab Number:**	L2335541
Project Number:	ES22-387153	**Report Date:**	07/19/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: AVANT GARDNER **Lab Number:** L2335541
Project Number: ES22-387153 **Report Date:** 07/19/23

Case Narrative (continued)

Report Submission
July 19, 2023: This final report includes the results of all requested analyses.
July 10, 2023: This is a preliminary report.
June 30, 2023: This is a preliminary report.
June 28, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt
L2335541-45: The sample identified as "10-B6W (1.5-2)" on the chain of custody was identified as "10-B6W (1.2-2)" on the container label. At the client's request, the sample is reported as "10-B6W (1.5-2)".

Volatile Organics
L2335541-26: The sample was analyzed as a High Level Methanol in order to quantitate results within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to vial discrepancies.
L2335541-26: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (23%) and the surrogate recovery for 4-bromofluorobenzene (148%) were outside the acceptance criteria; however, re-analysis achieved the following results: chlorobenzene-d5 (42%), and 1,4-dichlorobenzene-d4 (16%), toluene-d8 (135%) and 4-bromofluorobenzene (157%). The results of both analyses are reported.
L2335541-34: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (138%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.
L2335541-42: The surrogate recoveries were outside the acceptance criteria for 1,2-dichloroethane-d4 (132%); however, re-analysis achieved similar results: 1,2-dichloroethane-d4 (140%) and

Project Name:	AVANT GARDNER	**Lab Number:**	L2335541
Project Number:	ES22-387153	**Report Date:**	07/19/23

Case Narrative (continued)

dibromofluoromethane (134%). The results of both analyses are reported.
L2335541-51: The sample was analyzed as a High Level Methanol in order to quantitate results within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported. Differences were noted between the results of the Volatile Organics by EPA Method 5035/8260 High and Low Level analyses which have been attributed to vial discrepancies.
The WG1799631-5 Method Blank, associated with L2335541-50 and -59, has a concentration above the reporting limit for bromomethane. Since the associated sample concentrations are non-detect to the RL for this target analyte, no corrective action is required.

Total Metals
L2335541-02, -08 through -25: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.
The WG1796177-3/-4 MS/MSD recoveries for iron (21300%/20700%), performed on L2335541-21, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG1796177-3/-4 MS/MSD recoveries, performed on L2335541-21, are outside the acceptance criteria for antimony (MS 133%), arsenic (140%/138%), barium (MSD 72%) and chromium (MS 48%). A post digestion spike was performed and was within acceptance criteria.
The WG1796177-3/-4 MS/MSD recoveries for aluminum (805%/358%), calcium (213%/171%), copper (MS 72%), lead (0%/0%), manganese (269%/0%) and zinc (0%/0%), performed on L2335541-21, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG1796178-3/-4 MS/MSD recoveries for mercury (277%/24%), performed on L2335541-21, do not apply because the sample concentration is greater than four times the spike amount added. The MS/MSD RPD, is above the acceptance criteria for mercury (35%).
The WG1796177-3/-4 MS/MSD RPDs for antimony (28%) and manganese (30%), performed on L2335541-21, are above the acceptance criteria.
The WG1800889-3 MS recovery, performed on L2335541-09, is outside the acceptance criteria for mercury

Project Name:	AVANT GARDNER	**Lab Number:**	L2335541
Project Number:	ES22-387153	**Report Date:**	07/19/23

Case Narrative (continued)

(178%). A post digestion spike was performed and was within acceptance criteria.

Dissolved Metals

The WG1801416-4 Laboratory Duplicate RPD for mercury (77%), performed on L2335541-02, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

TCLP Metals

The WG1801962-1 Method Blank, associated with L2335541-20, has a concentration above the reporting limit for mercury. Since the associated sample concentration is non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 07/19/23

ORGANICS

VOLATILES

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26
Client ID: 7-B1W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 08:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 11:01
Analyst: LAC
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	0.93	J	ug/kg	1.1	0.16	1
Chloroform	26		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	2800	E	ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	5.9		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	0.31	J	ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	2.2		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	4.4		ug/kg	1.7	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26 Date Collected: 06/20/23 08:50

Client ID: 7-B1W (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	200		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	0.24	J	ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	0.31	J	ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	0.22	J	ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	360	E	ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	79		ug/kg	1.7	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	11		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	2.8	J	ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26 Date Collected: 06/20/23 08:50

Client ID: 7-B1W (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	88	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	**148**	Q	70-130
Dibromofluoromethane	98		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26
Client ID: 7-B1W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/27/23 21:19
Analyst: MKS
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	300	140	1
1,1-Dichloroethane	ND		ug/kg	61	8.8	1
Chloroform	ND		ug/kg	91	8.5	1
Carbon tetrachloride	ND		ug/kg	61	14.	1
1,2-Dichloropropane	ND		ug/kg	61	7.6	1
Dibromochloromethane	ND		ug/kg	61	8.5	1
1,1,2-Trichloroethane	ND		ug/kg	61	16.	1
Tetrachloroethene	550		ug/kg	30	12.	1
Chlorobenzene	ND		ug/kg	30	7.7	1
Trichlorofluoromethane	ND		ug/kg	240	42.	1
1,2-Dichloroethane	ND		ug/kg	61	16.	1
1,1,1-Trichloroethane	ND		ug/kg	30	10.	1
Bromodichloromethane	ND		ug/kg	30	6.6	1
trans-1,3-Dichloropropene	ND		ug/kg	61	17.	1
cis-1,3-Dichloropropene	ND		ug/kg	30	9.6	1
1,3-Dichloropropene, Total	ND		ug/kg	30	9.6	1
1,1-Dichloropropene	ND		ug/kg	30	9.7	1
Bromoform	ND		ug/kg	240	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	30	10.	1
Benzene	ND		ug/kg	30	10.	1
Toluene	ND		ug/kg	61	33.	1
Ethylbenzene	ND		ug/kg	61	8.6	1
Chloromethane	ND		ug/kg	240	57.	1
Bromomethane	ND		ug/kg	120	35.	1
Vinyl chloride	ND		ug/kg	61	20.	1
Chloroethane	ND		ug/kg	120	28.	1
1,1-Dichloroethene	ND		ug/kg	61	14.	1
trans-1,2-Dichloroethene	ND		ug/kg	91	8.4	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26 Date Collected: 06/20/23 08:50

Client ID: 7-B1W (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	48		ug/kg	30	8.4	1
1,2-Dichlorobenzene	ND		ug/kg	120	8.8	1
1,3-Dichlorobenzene	ND		ug/kg	120	9.0	1
1,4-Dichlorobenzene	ND		ug/kg	120	10.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	ND		ug/kg	120	34.	1
o-Xylene	ND		ug/kg	61	18.	1
Xylenes, Total	ND		ug/kg	61	18.	1
cis-1,2-Dichloroethene	75		ug/kg	61	11.	1
1,2-Dichloroethene, Total	75		ug/kg	61	8.4	1
Dibromomethane	ND		ug/kg	120	14.	1
Styrene	ND		ug/kg	61	12.	1
Dichlorodifluoromethane	ND		ug/kg	610	56.	1
Acetone	ND		ug/kg	610	290	1
Carbon disulfide	ND		ug/kg	610	280	1
2-Butanone	ND		ug/kg	610	140	1
Vinyl acetate	ND		ug/kg	610	130	1
4-Methyl-2-pentanone	ND		ug/kg	610	78.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.7	1
2-Hexanone	ND		ug/kg	610	72.	1
Bromochloromethane	ND		ug/kg	120	12.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	61	17.	1
1,3-Dichloropropane	ND		ug/kg	120	10.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	30	8.0	1
Bromobenzene	ND		ug/kg	120	8.8	1
n-Butylbenzene	ND		ug/kg	61	10.	1
sec-Butylbenzene	ND		ug/kg	61	8.9	1
tert-Butylbenzene	ND		ug/kg	120	7.2	1
o-Chlorotoluene	ND		ug/kg	120	12.	1
p-Chlorotoluene	ND		ug/kg	120	6.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	61.	1
Hexachlorobutadiene	ND		ug/kg	240	10.	1
Isopropylbenzene	ND		ug/kg	61	6.6	1
p-Isopropyltoluene	ND		ug/kg	61	6.6	1
Naphthalene	ND		ug/kg	240	40.	1
Acrylonitrile	ND		ug/kg	240	70.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26 Date Collected: 06/20/23 08:50

Client ID: 7-B1W (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	61	10.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	16.	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	12.	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	20.	1
1,4-Dioxane	ND		ug/kg	4900	2100	1
p-Diethylbenzene	ND		ug/kg	120	11.	1
p-Ethyltoluene	ND		ug/kg	120	23.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	120	12.	1
Ethyl ether	ND		ug/kg	120	21.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	300	86.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	120		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26 R
Client ID: 7-B1W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/27/23 21:42
Analyst: MKS
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	3.7		ug/kg	1.0	0.15	1
Chloroform	92		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	8200	E	ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	16		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	0.77		ug/kg	0.51	0.17	1
Toluene	0.84	J	ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	7.7		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	0.97	J	ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	14		ug/kg	1.5	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26 R
Client ID: 7-B1W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	580	E	ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	0.57	J	ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	0.63	J	ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	0.21	J	ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	1400	E	ug/kg	1.0	0.18	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	7.7	J	ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	3.8	J	ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.66	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1
n-Propylbenzene	ND		ug/kg	1.0	0.17	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26 R
Client ID: 7-B1W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	81	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	**135**	Q	70-130
4-Bromofluorobenzene	**157**	Q	70-130
Dibromofluoromethane	100		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-27 D2 Date Collected: 06/20/23 08:55
Client ID: 7-B1W (4.5-5) Date Received: 06/21/23
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/27/23 20:56
Analyst: MKS
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	3200	1400	10
1,1-Dichloroethane	140	J	ug/kg	630	92.	10
Chloroform	4300		ug/kg	950	88.	10
Carbon tetrachloride	ND		ug/kg	630	140	10
1,2-Dichloropropane	ND		ug/kg	630	79.	10
Dibromochloromethane	ND		ug/kg	630	88.	10
1,1,2-Trichloroethane	ND		ug/kg	630	170	10
Tetrachloroethene	550000	E	ug/kg	320	120	10
Chlorobenzene	ND		ug/kg	320	80.	10
Trichlorofluoromethane	ND		ug/kg	2500	440	10
1,2-Dichloroethane	ND		ug/kg	630	160	10
1,1,1-Trichloroethane	1000		ug/kg	320	100	10
Bromodichloromethane	ND		ug/kg	320	69.	10
trans-1,3-Dichloropropene	ND		ug/kg	630	170	10
cis-1,3-Dichloropropene	ND		ug/kg	320	100	10
1,3-Dichloropropene, Total	ND		ug/kg	320	100	10
1,1-Dichloropropene	ND		ug/kg	320	100	10
Bromoform	ND		ug/kg	2500	160	10
1,1,2,2-Tetrachloroethane	ND		ug/kg	320	100	10
Benzene	ND		ug/kg	320	100	10
Toluene	ND		ug/kg	630	340	10
Ethylbenzene	ND		ug/kg	630	89.	10
Chloromethane	ND		ug/kg	2500	590	10
Bromomethane	ND		ug/kg	1300	370	10
Vinyl chloride	ND		ug/kg	630	210	10
Chloroethane	ND		ug/kg	1300	290	10
1,1-Dichloroethene	ND		ug/kg	630	150	10
trans-1,2-Dichloroethene	330	J	ug/kg	950	87.	10

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-27 D2 Date Collected: 06/20/23 08:55

Client ID: 7-B1W (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	32000		ug/kg	320	87.	10
1,2-Dichlorobenzene	ND		ug/kg	1300	91.	10
1,3-Dichlorobenzene	ND		ug/kg	1300	94.	10
1,4-Dichlorobenzene	ND		ug/kg	1300	110	10
Methyl tert butyl ether	ND		ug/kg	1300	130	10
p/m-Xylene	ND		ug/kg	1300	350	10
o-Xylene	ND		ug/kg	630	180	10
Xylenes, Total	ND		ug/kg	630	180	10
cis-1,2-Dichloroethene	50000		ug/kg	630	110	10
1,2-Dichloroethene, Total	50000	J	ug/kg	630	87.	10
Dibromomethane	ND		ug/kg	1300	150	10
Styrene	ND		ug/kg	630	120	10
Dichlorodifluoromethane	ND		ug/kg	6300	580	10
Acetone	ND		ug/kg	6300	3000	10
Carbon disulfide	ND		ug/kg	6300	2900	10
2-Butanone	ND		ug/kg	6300	1400	10
Vinyl acetate	ND		ug/kg	6300	1400	10
4-Methyl-2-pentanone	ND		ug/kg	6300	810	10
1,2,3-Trichloropropane	ND		ug/kg	1300	80.	10
2-Hexanone	ND		ug/kg	6300	750	10
Bromochloromethane	ND		ug/kg	1300	130	10
2,2-Dichloropropane	ND		ug/kg	1300	130	10
1,2-Dibromoethane	ND		ug/kg	630	180	10
1,3-Dichloropropane	ND		ug/kg	1300	100	10
1,1,1,2-Tetrachloroethane	ND		ug/kg	320	84.	10
Bromobenzene	ND		ug/kg	1300	92.	10
n-Butylbenzene	ND		ug/kg	630	100	10
sec-Butylbenzene	ND		ug/kg	630	92.	10
tert-Butylbenzene	ND		ug/kg	1300	75.	10
o-Chlorotoluene	ND		ug/kg	1300	120	10
p-Chlorotoluene	ND		ug/kg	1300	68.	10
1,2-Dibromo-3-chloropropane	ND		ug/kg	1900	630	10
Hexachlorobutadiene	ND		ug/kg	2500	110	10
Isopropylbenzene	ND		ug/kg	630	69.	10
p-Isopropyltoluene	ND		ug/kg	630	69.	10
Naphthalene	ND		ug/kg	2500	410	10
Acrylonitrile	ND		ug/kg	2500	730	10

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-27 D2 Date Collected: 06/20/23 08:55

Client ID: 7-B1W (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	630	110	10
1,2,3-Trichlorobenzene	ND		ug/kg	1300	200	10
1,2,4-Trichlorobenzene	ND		ug/kg	1300	170	10
1,3,5-Trimethylbenzene	ND		ug/kg	1300	120	10
1,2,4-Trimethylbenzene	ND		ug/kg	1300	210	10
1,4-Dioxane	ND		ug/kg	51000	22000	10
p-Diethylbenzene	ND		ug/kg	1300	110	10
p-Ethyltoluene	ND		ug/kg	1300	240	10
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1300	120	10
Ethyl ether	ND		ug/kg	1300	220	10
trans-1,4-Dichloro-2-butene	ND		ug/kg	3200	900	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	96		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-27 D
Client ID: 7-B1W (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 08:55
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 14:49
Analyst: LAC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	350000		ug/kg	630	250	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-28
Client ID: 7-B1W (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 11:24
Analyst: LAC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	0.55	J	ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	72		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	0.80		ug/kg	0.54	0.18	1
Toluene	1.2		ug/kg	1.1	0.58	1
Ethylbenzene	0.90	J	ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	4.9		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	0.38	J	ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-28 Date Collected: 06/20/23 09:00

Client ID: 7-B1W (6.5-7) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	5.7		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	2.5		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	0.16	J	ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	0.46	J	ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.22	1
p/m-Xylene	0.64	J	ug/kg	2.1	0.60	1
o-Xylene	0.40	J	ug/kg	1.1	0.31	1
Xylenes, Total	1.0	J	ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	35		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	35	J	ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.1	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	65		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	8.9	J	ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.16	1
n-Butylbenzene	0.32	J	ug/kg	1.1	0.18	1
sec-Butylbenzene	0.25	J	ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.13	1
o-Chlorotoluene	0.38	J	ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	0.26	J	ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.28	J	ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-28 Date Collected: 06/20/23 09:00

Client ID: 7-B1W (6.5-7) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	0.56	J	ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	0.51	J	ug/kg	2.1	0.21	1
1,2,4-Trimethylbenzene	0.56	J	ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1
p-Diethylbenzene	0.56	J	ug/kg	2.1	0.19	1
p-Ethyltoluene	0.78	J	ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	106		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-29 D2 Date Collected: 06/20/23 08:30
Client ID: 7-B1WW (1-1.5) Date Received: 06/21/23
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/03/23 13:00
Analyst: JIC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	14000	6600	40
1,1-Dichloroethane	ND		ug/kg	2900	420	40
Chloroform	18000		ug/kg	4300	400	40
Carbon tetrachloride	ND		ug/kg	2900	670	40
1,2-Dichloropropane	ND		ug/kg	2900	360	40
Dibromochloromethane	ND		ug/kg	2900	400	40
1,1,2-Trichloroethane	ND		ug/kg	2900	770	40
Tetrachloroethene	950000	E	ug/kg	1400	570	40
Chlorobenzene	ND		ug/kg	1400	370	40
Trichlorofluoromethane	ND		ug/kg	12000	2000	40
1,2-Dichloroethane	ND		ug/kg	2900	740	40
1,1,1-Trichloroethane	2400		ug/kg	1400	480	40
Bromodichloromethane	ND		ug/kg	1400	320	40
trans-1,3-Dichloropropene	ND		ug/kg	2900	790	40
cis-1,3-Dichloropropene	ND		ug/kg	1400	460	40
1,3-Dichloropropene, Total	ND		ug/kg	1400	460	40
1,1-Dichloropropene	ND		ug/kg	1400	460	40
Bromoform	ND		ug/kg	12000	710	40
1,1,2,2-Tetrachloroethane	ND		ug/kg	1400	480	40
Benzene	ND		ug/kg	1400	480	40
Toluene	ND		ug/kg	2900	1600	40
Ethylbenzene	ND		ug/kg	2900	410	40
Chloromethane	ND		ug/kg	12000	2700	40
Bromomethane	ND		ug/kg	5800	1700	40
Vinyl chloride	ND		ug/kg	2900	970	40
Chloroethane	ND		ug/kg	5800	1300	40
1,1-Dichloroethene	ND		ug/kg	2900	690	40
trans-1,2-Dichloroethene	670	J	ug/kg	4300	400	40

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-29 D2 Date Collected: 06/20/23 08:30

Client ID: 7-B1WW (1-1.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	38000		ug/kg	1400	400	40
1,2-Dichlorobenzene	ND		ug/kg	5800	420	40
1,3-Dichlorobenzene	ND		ug/kg	5800	430	40
1,4-Dichlorobenzene	ND		ug/kg	5800	500	40
Methyl tert butyl ether	ND		ug/kg	5800	580	40
p/m-Xylene	ND		ug/kg	5800	1600	40
o-Xylene	ND		ug/kg	2900	840	40
Xylenes, Total	ND		ug/kg	2900	840	40
cis-1,2-Dichloroethene	110000		ug/kg	2900	510	40
1,2-Dichloroethene, Total	110000	J	ug/kg	2900	400	40
Dibromomethane	ND		ug/kg	5800	690	40
Styrene	ND		ug/kg	2900	570	40
Dichlorodifluoromethane	ND		ug/kg	29000	2600	40
Acetone	ND		ug/kg	29000	14000	40
Carbon disulfide	ND		ug/kg	29000	13000	40
2-Butanone	ND		ug/kg	29000	6400	40
Vinyl acetate	ND		ug/kg	29000	6200	40
4-Methyl-2-pentanone	ND		ug/kg	29000	3700	40
1,2,3-Trichloropropane	ND		ug/kg	5800	370	40
2-Hexanone	ND		ug/kg	29000	3400	40
Bromochloromethane	ND		ug/kg	5800	590	40
2,2-Dichloropropane	ND		ug/kg	5800	580	40
1,2-Dibromoethane	ND		ug/kg	2900	810	40
1,3-Dichloropropane	ND		ug/kg	5800	480	40
1,1,1,2-Tetrachloroethane	ND		ug/kg	1400	380	40
Bromobenzene	ND		ug/kg	5800	420	40
n-Butylbenzene	ND		ug/kg	2900	480	40
sec-Butylbenzene	ND		ug/kg	2900	420	40
tert-Butylbenzene	ND		ug/kg	5800	340	40
o-Chlorotoluene	ND		ug/kg	5800	550	40
p-Chlorotoluene	ND		ug/kg	5800	310	40
1,2-Dibromo-3-chloropropane	ND		ug/kg	8700	2900	40
Hexachlorobutadiene	ND		ug/kg	12000	490	40
Isopropylbenzene	ND		ug/kg	2900	320	40
p-Isopropyltoluene	ND		ug/kg	2900	320	40
Naphthalene	ND		ug/kg	12000	1900	40
Acrylonitrile	ND		ug/kg	12000	3300	40

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-29 D2 Date Collected: 06/20/23 08:30

Client ID: 7-B1WW (1-1.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	2900	500	40
1,2,3-Trichlorobenzene	ND		ug/kg	5800	930	40
1,2,4-Trichlorobenzene	ND		ug/kg	5800	790	40
1,3,5-Trimethylbenzene	ND		ug/kg	5800	560	40
1,2,4-Trimethylbenzene	ND		ug/kg	5800	970	40
1,4-Dioxane	ND		ug/kg	230000	100000	40
p-Diethylbenzene	ND		ug/kg	5800	510	40
p-Ethyltoluene	ND		ug/kg	5800	1100	40
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5800	550	40
Ethyl ether	ND		ug/kg	5800	990	40
trans-1,4-Dichloro-2-butene	ND		ug/kg	14000	4100	40

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	88		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-29 D
Client ID: 7-B1WW (1-1.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/01/23 20:33
Analyst: AJK
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	1200000		ug/kg	3600	1400	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-30
Client ID: 7-B1WW (4-4.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 08:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/03/23 12:22
Analyst: JIC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	340	150	1
1,1-Dichloroethane	ND		ug/kg	68	9.8	1
Chloroform	ND		ug/kg	100	9.4	1
Carbon tetrachloride	ND		ug/kg	68	16.	1
1,2-Dichloropropane	ND		ug/kg	68	8.4	1
Dibromochloromethane	ND		ug/kg	68	9.4	1
1,1,2-Trichloroethane	ND		ug/kg	68	18.	1
Tetrachloroethene	6900		ug/kg	34	13.	1
Chlorobenzene	ND		ug/kg	34	8.6	1
Trichlorofluoromethane	ND		ug/kg	270	47.	1
1,2-Dichloroethane	ND		ug/kg	68	17.	1
1,1,1-Trichloroethane	ND		ug/kg	34	11.	1
Bromodichloromethane	ND		ug/kg	34	7.4	1
trans-1,3-Dichloropropene	ND		ug/kg	68	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	34	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	34	11.	1
1,1-Dichloropropene	ND		ug/kg	34	11.	1
Bromoform	ND		ug/kg	270	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	11.	1
Benzene	87		ug/kg	34	11.	1
Toluene	180		ug/kg	68	37.	1
Ethylbenzene	120		ug/kg	68	9.5	1
Chloromethane	ND		ug/kg	270	63.	1
Bromomethane	ND		ug/kg	140	39.	1
Vinyl chloride	ND		ug/kg	68	23.	1
Chloroethane	ND		ug/kg	140	30.	1
1,1-Dichloroethene	ND		ug/kg	68	16.	1
trans-1,2-Dichloroethene	14	J	ug/kg	100	9.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-30 Date Collected: 06/20/23 08:35

Client ID: 7-B1WW (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	1100		ug/kg	34	9.2	1
1,2-Dichlorobenzene	680		ug/kg	140	9.7	1
1,3-Dichlorobenzene	19	J	ug/kg	140	10.	1
1,4-Dichlorobenzene	110	J	ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	120	J	ug/kg	140	38.	1
o-Xylene	74		ug/kg	68	20.	1
Xylenes, Total	190	J	ug/kg	68	20.	1
cis-1,2-Dichloroethene	840		ug/kg	68	12.	1
1,2-Dichloroethene, Total	850	J	ug/kg	68	9.2	1
Dibromomethane	ND		ug/kg	140	16.	1
Styrene	15	J	ug/kg	68	13.	1
Dichlorodifluoromethane	ND		ug/kg	680	62.	1
Acetone	ND		ug/kg	680	320	1
Carbon disulfide	ND		ug/kg	680	310	1
2-Butanone	ND		ug/kg	680	150	1
Vinyl acetate	ND		ug/kg	680	140	1
4-Methyl-2-pentanone	ND		ug/kg	680	86.	1
1,2,3-Trichloropropane	ND		ug/kg	140	8.6	1
2-Hexanone	ND		ug/kg	680	80.	1
Bromochloromethane	ND		ug/kg	140	14.	1
2,2-Dichloropropane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	68	19.	1
1,3-Dichloropropane	ND		ug/kg	140	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	8.9	1
Bromobenzene	ND		ug/kg	140	9.8	1
n-Butylbenzene	110		ug/kg	68	11.	1
sec-Butylbenzene	51	J	ug/kg	68	9.9	1
tert-Butylbenzene	ND		ug/kg	140	8.0	1
o-Chlorotoluene	140		ug/kg	140	13.	1
p-Chlorotoluene	ND		ug/kg	140	7.3	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	67.	1
Hexachlorobutadiene	ND		ug/kg	270	11.	1
Isopropylbenzene	37	J	ug/kg	68	7.4	1
p-Isopropyltoluene	69		ug/kg	68	7.4	1
Naphthalene	60	J	ug/kg	270	44.	1
Acrylonitrile	ND		ug/kg	270	78.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-30 Date Collected: 06/20/23 08:35

Client ID: 7-B1WW (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	120		ug/kg	68	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	22.	1
1,2,4-Trichlorobenzene	19	J	ug/kg	140	18.	1
1,3,5-Trimethylbenzene	74	J	ug/kg	140	13.	1
1,2,4-Trimethylbenzene	160		ug/kg	140	22.	1
1,4-Dioxane	ND		ug/kg	5400	2400	1
p-Diethylbenzene	91	J	ug/kg	140	12.	1
p-Ethyltoluene	ND		ug/kg	140	26.	1
1,2,4,5-Tetramethylbenzene	19	J	ug/kg	140	13.	1
Ethyl ether	ND		ug/kg	140	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	340	96.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	82		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-31 Date Collected: 06/20/23 08:40

Client ID: 7-B1WW (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 07/03/23 11:43

Analyst: JIC

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.5	3.4	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.2	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.34	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.40	1
Tetrachloroethene	170		ug/kg	0.75	0.29	1
Chlorobenzene	ND		ug/kg	0.75	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.0	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.39	1
1,1,1-Trichloroethane	ND		ug/kg	0.75	0.25	1
Bromodichloromethane	ND		ug/kg	0.75	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.41	1
cis-1,3-Dichloropropene	ND		ug/kg	0.75	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	0.75	0.24	1
1,1-Dichloropropene	ND		ug/kg	0.75	0.24	1
Bromoform	ND		ug/kg	6.0	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.75	0.25	1
Benzene	0.58	J	ug/kg	0.75	0.25	1
Toluene	1.6		ug/kg	1.5	0.82	1
Ethylbenzene	1.5		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	6.0	1.4	1
Bromomethane	ND		ug/kg	3.0	0.87	1
Vinyl chloride	ND		ug/kg	1.5	0.50	1
Chloroethane	ND		ug/kg	3.0	0.68	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.36	1
trans-1,2-Dichloroethene	0.50	J	ug/kg	2.2	0.21	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-31 Date Collected: 06/20/23 08:40

Client ID: 7-B1WW (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	26		ug/kg	0.75	0.21	1
1,2-Dichlorobenzene	2.1	J	ug/kg	3.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	1.4	J	ug/kg	3.0	0.84	1
o-Xylene	0.93	J	ug/kg	1.5	0.44	1
Xylenes, Total	2.3	J	ug/kg	1.5	0.44	1
cis-1,2-Dichloroethene	20		ug/kg	1.5	0.26	1
1,2-Dichloroethene, Total	21	J	ug/kg	1.5	0.21	1
Dibromomethane	ND		ug/kg	3.0	0.36	1
Styrene	ND		ug/kg	1.5	0.29	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	26		ug/kg	15	7.2	1
Carbon disulfide	ND		ug/kg	15	6.8	1
2-Butanone	14	J	ug/kg	15	3.3	1
Vinyl acetate	ND		ug/kg	15	3.2	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	0.19	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.31	1
2,2-Dichloropropane	ND		ug/kg	3.0	0.30	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.42	1
1,3-Dichloropropane	ND		ug/kg	3.0	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.75	0.20	1
Bromobenzene	ND		ug/kg	3.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.0	0.18	1
o-Chlorotoluene	0.79	J	ug/kg	3.0	0.29	1
p-Chlorotoluene	ND		ug/kg	3.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	1.5	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.25	1
Isopropylbenzene	0.32	J	ug/kg	1.5	0.16	1
p-Isopropyltoluene	0.38	J	ug/kg	1.5	0.16	1
Naphthalene	ND		ug/kg	6.0	0.98	1
Acrylonitrile	ND		ug/kg	6.0	1.7	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-31 Date Collected: 06/20/23 08:40

Client ID: 7-B1WW (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	0.76	J	ug/kg	1.5	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	0.48	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.41	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.50	1
1,4-Dioxane	ND		ug/kg	120	53.	1
p-Diethylbenzene	ND		ug/kg	3.0	0.27	1
p-Ethyltoluene	ND		ug/kg	3.0	0.58	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.0	0.29	1
Ethyl ether	ND		ug/kg	3.0	0.51	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.5	2.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	88		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-32
Client ID: 7-B1E (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 11:47
Analyst: LAC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	2.4	J	ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	8.9		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	1.2		ug/kg	0.53	0.18	1
Toluene	4.9		ug/kg	1.1	0.58	1
Ethylbenzene	0.94	J	ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	3.6		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	0.24	J	ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-32 Date Collected: 06/20/23 09:15

Client ID: 7-B1E (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	1.8		ug/kg	0.53	0.15	1
1,2-Dichlorobenzene	0.38	J	ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	0.27	J	ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	1.5	J	ug/kg	2.1	0.60	1
o-Xylene	0.58	J	ug/kg	1.1	0.31	1
Xylenes, Total	2.1	J	ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	18		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	18	J	ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	0.23	J	ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	110		ug/kg	11	5.1	1
Carbon disulfide	10	J	ug/kg	11	4.8	1
2-Butanone	16		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.14	1
2-Hexanone	ND		ug/kg	11	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	0.23	J	ug/kg	1.1	0.18	1
sec-Butylbenzene	0.17	J	ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	0.27	J	ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.39	J	ug/kg	1.1	0.12	1
Naphthalene	1.5	J	ug/kg	4.3	0.69	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-32 Date Collected: 06/20/23 09:15

Client ID: 7-B1E (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	0.27	J	ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	0.56	J	ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	1.3	J	ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	85	37.	1
p-Diethylbenzene	1.6	J	ug/kg	2.1	0.19	1
p-Ethyltoluene	0.81	J	ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	0.83	J	ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	111		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-33 Date Collected: 06/20/23 09:20

Client ID: 7-B1E (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 06/24/23 15:12

Analyst: LAC

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	350	160	1
1,1-Dichloroethane	ND		ug/kg	70	10.	1
Chloroform	840		ug/kg	100	9.8	1
Carbon tetrachloride	ND		ug/kg	70	16.	1
1,2-Dichloropropane	ND		ug/kg	70	8.7	1
Dibromochloromethane	ND		ug/kg	70	9.8	1
1,1,2-Trichloroethane	ND		ug/kg	70	19.	1
Tetrachloroethene	10000		ug/kg	35	14.	1
Chlorobenzene	ND		ug/kg	35	8.8	1
Trichlorofluoromethane	ND		ug/kg	280	48.	1
1,2-Dichloroethane	ND		ug/kg	70	18.	1
1,1,1-Trichloroethane	ND		ug/kg	35	12.	1
Bromodichloromethane	ND		ug/kg	35	7.6	1
trans-1,3-Dichloropropene	ND		ug/kg	70	19.	1
cis-1,3-Dichloropropene	ND		ug/kg	35	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	35	11.	1
1,1-Dichloropropene	ND		ug/kg	35	11.	1
Bromoform	ND		ug/kg	280	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	35	12.	1
Benzene	ND		ug/kg	35	12.	1
Toluene	ND		ug/kg	70	38.	1
Ethylbenzene	ND		ug/kg	70	9.8	1
Chloromethane	ND		ug/kg	280	65.	1
Bromomethane	ND		ug/kg	140	40.	1
Vinyl chloride	42	J	ug/kg	70	23.	1
Chloroethane	ND		ug/kg	140	32.	1
1,1-Dichloroethene	ND		ug/kg	70	17.	1
trans-1,2-Dichloroethene	74	J	ug/kg	100	9.6	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-33 Date Collected: 06/20/23 09:20

Client ID: 7-B1E (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	1900		ug/kg	35	9.6	1
1,2-Dichlorobenzene	11	J	ug/kg	140	10.	1
1,3-Dichlorobenzene	26	J	ug/kg	140	10.	1
1,4-Dichlorobenzene	ND		ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	ND		ug/kg	140	39.	1
o-Xylene	ND		ug/kg	70	20.	1
Xylenes, Total	ND		ug/kg	70	20.	1
cis-1,2-Dichloroethene	7100		ug/kg	70	12.	1
1,2-Dichloroethene, Total	7200	J	ug/kg	70	9.6	1
Dibromomethane	ND		ug/kg	140	17.	1
Styrene	ND		ug/kg	70	14.	1
Dichlorodifluoromethane	ND		ug/kg	700	64.	1
Acetone	ND		ug/kg	700	340	1
Carbon disulfide	ND		ug/kg	700	320	1
2-Butanone	ND		ug/kg	700	150	1
Vinyl acetate	ND		ug/kg	700	150	1
4-Methyl-2-pentanone	ND		ug/kg	700	89.	1
1,2,3-Trichloropropane	ND		ug/kg	140	8.8	1
2-Hexanone	ND		ug/kg	700	82.	1
Bromochloromethane	ND		ug/kg	140	14.	1
2,2-Dichloropropane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	70	19.	1
1,3-Dichloropropane	ND		ug/kg	140	12.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	35	9.2	1
Bromobenzene	ND		ug/kg	140	10.	1
n-Butylbenzene	ND		ug/kg	70	12.	1
sec-Butylbenzene	ND		ug/kg	70	10.	1
tert-Butylbenzene	ND		ug/kg	140	8.2	1
o-Chlorotoluene	ND		ug/kg	140	13.	1
p-Chlorotoluene	ND		ug/kg	140	7.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	210	70.	1
Hexachlorobutadiene	ND		ug/kg	280	12.	1
Isopropylbenzene	ND		ug/kg	70	7.6	1
p-Isopropyltoluene	ND		ug/kg	70	7.6	1
Naphthalene	ND		ug/kg	280	45.	1
Acrylonitrile	ND		ug/kg	280	80.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-33 Date Collected: 06/20/23 09:20

Client ID: 7-B1E (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	70	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	19.	1
1,3,5-Trimethylbenzene	ND		ug/kg	140	13.	1
1,2,4-Trimethylbenzene	ND		ug/kg	140	23.	1
1,4-Dioxane	ND		ug/kg	5600	2400	1
p-Diethylbenzene	ND		ug/kg	140	12.	1
p-Ethyltoluene	ND		ug/kg	140	27.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	140	13.	1
Ethyl ether	ND		ug/kg	140	24.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	350	99.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	107		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-34
Client ID: 7-B1E (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:25
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 15:35
Analyst: LAC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	300	140	1
1,1-Dichloroethane	ND		ug/kg	60	8.6	1
Chloroform	ND		ug/kg	89	8.3	1
Carbon tetrachloride	ND		ug/kg	60	14.	1
1,2-Dichloropropane	ND		ug/kg	60	7.4	1
Dibromochloromethane	ND		ug/kg	60	8.3	1
1,1,2-Trichloroethane	ND		ug/kg	60	16.	1
Tetrachloroethene	1900		ug/kg	30	12.	1
Chlorobenzene	ND		ug/kg	30	7.6	1
Trichlorofluoromethane	ND		ug/kg	240	41.	1
1,2-Dichloroethane	ND		ug/kg	60	15.	1
1,1,1-Trichloroethane	ND		ug/kg	30	9.9	1
Bromodichloromethane	ND		ug/kg	30	6.5	1
trans-1,3-Dichloropropene	ND		ug/kg	60	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	30	9.4	1
1,3-Dichloropropene, Total	ND		ug/kg	30	9.4	1
1,1-Dichloropropene	ND		ug/kg	30	9.5	1
Bromoform	ND		ug/kg	240	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	30	9.9	1
Benzene	ND		ug/kg	30	9.9	1
Toluene	ND		ug/kg	60	32.	1
Ethylbenzene	11	J	ug/kg	60	8.4	1
Chloromethane	ND		ug/kg	240	56.	1
Bromomethane	ND		ug/kg	120	35.	1
Vinyl chloride	160		ug/kg	60	20.	1
Chloroethane	ND		ug/kg	120	27.	1
1,1-Dichloroethene	ND		ug/kg	60	14.	1
trans-1,2-Dichloroethene	64	J	ug/kg	89	8.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-34 Date Collected: 06/20/23 09:25

Client ID: 7-B1E (5.5-6) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	290		ug/kg	30	8.2	1
1,2-Dichlorobenzene	4400		ug/kg	120	8.6	1
1,3-Dichlorobenzene	160		ug/kg	120	8.8	1
1,4-Dichlorobenzene	640		ug/kg	120	10.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	47	J	ug/kg	120	33.	1
o-Xylene	ND		ug/kg	60	17.	1
Xylenes, Total	47	J	ug/kg	60	17.	1
cis-1,2-Dichloroethene	4000		ug/kg	60	10.	1
1,2-Dichloroethene, Total	4100	J	ug/kg	60	8.2	1
Dibromomethane	ND		ug/kg	120	14.	1
Styrene	ND		ug/kg	60	12.	1
Dichlorodifluoromethane	ND		ug/kg	600	54.	1
Acetone	ND		ug/kg	600	290	1
Carbon disulfide	ND		ug/kg	600	270	1
2-Butanone	ND		ug/kg	600	130	1
Vinyl acetate	ND		ug/kg	600	130	1
4-Methyl-2-pentanone	ND		ug/kg	600	76.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.6	1
2-Hexanone	ND		ug/kg	600	70.	1
Bromochloromethane	ND		ug/kg	120	12.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	60	17.	1
1,3-Dichloropropane	ND		ug/kg	120	9.9	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	30	7.9	1
Bromobenzene	ND		ug/kg	120	8.6	1
n-Butylbenzene	700		ug/kg	60	9.9	1
sec-Butylbenzene	800		ug/kg	60	8.7	1
tert-Butylbenzene	240		ug/kg	120	7.0	1
o-Chlorotoluene	170		ug/kg	120	11.	1
p-Chlorotoluene	ND		ug/kg	120	6.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	59.	1
Hexachlorobutadiene	120	J	ug/kg	240	10.	1
Isopropylbenzene	40	J	ug/kg	60	6.5	1
p-Isopropyltoluene	1200		ug/kg	60	6.5	1
Naphthalene	120	J	ug/kg	240	39.	1
Acrylonitrile	ND		ug/kg	240	68.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-34 Date Collected: 06/20/23 09:25

Client ID: 7-B1E (5.5-6) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	270		ug/kg	60	10.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	19.	1
1,2,4-Trichlorobenzene	280		ug/kg	120	16.	1
1,3,5-Trimethylbenzene	630		ug/kg	120	11.	1
1,2,4-Trimethylbenzene	1800		ug/kg	120	20.	1
1,4-Dioxane	ND		ug/kg	4800	2100	1
p-Diethylbenzene	3400		ug/kg	120	10.	1
p-Ethyltoluene	640		ug/kg	120	23.	1
1,2,4,5-Tetramethylbenzene	880		ug/kg	120	11.	1
Ethyl ether	ND		ug/kg	120	20.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	300	84.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	**138**	Q	70-130
Dibromofluoromethane	121		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-35 Date Collected: 06/20/23 09:30
Client ID: 7-B1N (1.5-2) Date Received: 06/21/23
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 12:09
Analyst: LAC
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	4.0		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	0.65		ug/kg	0.48	0.16	1
Toluene	1.2		ug/kg	0.96	0.52	1
Ethylbenzene	0.83	J	ug/kg	0.96	0.14	1
Chloromethane	ND		ug/kg	3.8	0.90	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	3.5		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-35 Date Collected: 06/20/23 09:30

Client ID: 7-B1N (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.82		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	0.79	J	ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	0.22	J	ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	2.4		ug/kg	1.9	0.54	1
o-Xylene	1.6		ug/kg	0.96	0.28	1
Xylenes, Total	4.0		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	4.3		ug/kg	0.96	0.17	1
1,2-Dichloroethene, Total	4.3		ug/kg	0.96	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	0.52	J	ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	25		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	16		ug/kg	9.6	2.1	1
Vinyl acetate	ND		ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	0.53	J	ug/kg	0.96	0.16	1
sec-Butylbenzene	0.40	J	ug/kg	0.96	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	0.38	J	ug/kg	0.96	0.10	1
p-Isopropyltoluene	0.38	J	ug/kg	0.96	0.10	1
Naphthalene	2.3	J	ug/kg	3.8	0.63	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-35 Date Collected: 06/20/23 09:30

Client ID: 7-B1N (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	0.76	J	ug/kg	0.96	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	2.1		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	5.9		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	77	34.	1
p-Diethylbenzene	3.7		ug/kg	1.9	0.17	1
p-Ethyltoluene	4.1		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	1.3	J	ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	113		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-36
Client ID: 7-B1N (4-4.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 12:32
Analyst: LAC
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	1.0	J	ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	160		ug/kg	0.68	0.26	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.23	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.68	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.68	0.22	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.22	1
Benzene	ND		ug/kg	0.68	0.22	1
Toluene	ND		ug/kg	1.4	0.74	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.4	1.3	1
Bromomethane	ND		ug/kg	2.7	0.79	1
Vinyl chloride	ND		ug/kg	1.4	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-36 Date Collected: 06/20/23 09:35

Client ID: 7-B1N (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	7.9		ug/kg	0.68	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.4	0.39	1
Xylenes, Total	ND		ug/kg	1.4	0.39	1
cis-1,2-Dichloroethene	3.8		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	3.8		ug/kg	1.4	0.18	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.4	0.26	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	38		ug/kg	14	6.5	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	20		ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.68	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.4	0.88	1
Acrylonitrile	ND		ug/kg	5.4	1.6	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-36 Date Collected: 06/20/23 09:35

Client ID: 7-B1N (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
1,4-Dioxane	ND		ug/kg	110	48.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-40
Client ID: 7-B1S (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:20
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 12:55
Analyst: LAC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	28		ug/kg	0.55	0.22	1
Chlorobenzene	0.18	J	ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	0.76		ug/kg	0.55	0.18	1
Toluene	9.4		ug/kg	1.1	0.60	1
Ethylbenzene	2.0		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	0.55	J	ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	0.50	J	ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-40 Date Collected: 06/20/23 10:20

Client ID: 7-B1S (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	2.4		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	1.1	J	ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	0.52	J	ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	3.3		ug/kg	2.2	0.62	1
o-Xylene	2.0		ug/kg	1.1	0.32	1
Xylenes, Total	5.3		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	27		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	28	J	ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	1.2		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	62		ug/kg	11	5.3	1
Carbon disulfide	6.2	J	ug/kg	11	5.0	1
2-Butanone	9.7	J	ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	3.4	J	ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	0.48	J	ug/kg	1.1	0.18	1
sec-Butylbenzene	0.51	J	ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	0.68	J	ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.76	J	ug/kg	1.1	0.12	1
Naphthalene	25		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-40 Date Collected: 06/20/23 10:20

Client ID: 7-B1S (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	1.0	J	ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	3.2		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	9.3		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	88	39.	1
p-Diethylbenzene	4.7		ug/kg	2.2	0.20	1
p-Ethyltoluene	4.9		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	2.2		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	106		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-41 Date Collected: 06/20/23 10:25
Client ID: 7-B1S (4-4.5) Date Received: 06/21/23
Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 15:58
Analyst: LAC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	300	140	1
1,1-Dichloroethane	ND		ug/kg	59	8.6	1
Chloroform	70	J	ug/kg	89	8.3	1
Carbon tetrachloride	ND		ug/kg	59	14.	1
1,2-Dichloropropane	ND		ug/kg	59	7.4	1
Dibromochloromethane	ND		ug/kg	59	8.3	1
1,1,2-Trichloroethane	ND		ug/kg	59	16.	1
Tetrachloroethene	5800		ug/kg	30	12.	1
Chlorobenzene	ND		ug/kg	30	7.6	1
Trichlorofluoromethane	ND		ug/kg	240	41.	1
1,2-Dichloroethane	ND		ug/kg	59	15.	1
1,1,1-Trichloroethane	ND		ug/kg	30	9.9	1
Bromodichloromethane	ND		ug/kg	30	6.5	1
trans-1,3-Dichloropropene	ND		ug/kg	59	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	30	9.4	1
1,3-Dichloropropene, Total	ND		ug/kg	30	9.4	1
1,1-Dichloropropene	ND		ug/kg	30	9.4	1
Bromoform	ND		ug/kg	240	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	30	9.9	1
Benzene	26	J	ug/kg	30	9.9	1
Toluene	ND		ug/kg	59	32.	1
Ethylbenzene	ND		ug/kg	59	8.4	1
Chloromethane	ND		ug/kg	240	55.	1
Bromomethane	ND		ug/kg	120	34.	1
Vinyl chloride	ND		ug/kg	59	20.	1
Chloroethane	ND		ug/kg	120	27.	1
1,1-Dichloroethene	ND		ug/kg	59	14.	1
trans-1,2-Dichloroethene	ND		ug/kg	89	8.1	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-41 Date Collected: 06/20/23 10:25

Client ID: 7-B1S (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	480		ug/kg	30	8.1	1
1,2-Dichlorobenzene	73	J	ug/kg	120	8.6	1
1,3-Dichlorobenzene	ND		ug/kg	120	8.8	1
1,4-Dichlorobenzene	20	J	ug/kg	120	10.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	ND		ug/kg	120	33.	1
o-Xylene	ND		ug/kg	59	17.	1
Xylenes, Total	ND		ug/kg	59	17.	1
cis-1,2-Dichloroethene	680		ug/kg	59	10.	1
1,2-Dichloroethene, Total	680		ug/kg	59	8.1	1
Dibromomethane	ND		ug/kg	120	14.	1
Styrene	ND		ug/kg	59	12.	1
Dichlorodifluoromethane	ND		ug/kg	590	54.	1
Acetone	ND		ug/kg	590	290	1
Carbon disulfide	ND		ug/kg	590	270	1
2-Butanone	ND		ug/kg	590	130	1
Vinyl acetate	ND		ug/kg	590	130	1
4-Methyl-2-pentanone	ND		ug/kg	590	76.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.6	1
2-Hexanone	ND		ug/kg	590	70.	1
Bromochloromethane	ND		ug/kg	120	12.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	59	16.	1
1,3-Dichloropropane	ND		ug/kg	120	9.9	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	30	7.8	1
Bromobenzene	ND		ug/kg	120	8.6	1
n-Butylbenzene	ND		ug/kg	59	9.9	1
sec-Butylbenzene	ND		ug/kg	59	8.7	1
tert-Butylbenzene	ND		ug/kg	120	7.0	1
o-Chlorotoluene	ND		ug/kg	120	11.	1
p-Chlorotoluene	ND		ug/kg	120	6.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	59.	1
Hexachlorobutadiene	ND		ug/kg	240	10.	1
Isopropylbenzene	ND		ug/kg	59	6.5	1
p-Isopropyltoluene	ND		ug/kg	59	6.5	1
Naphthalene	ND		ug/kg	240	39.	1
Acrylonitrile	ND		ug/kg	240	68.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-41 Date Collected: 06/20/23 10:25

Client ID: 7-B1S (4-4.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	59	10.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	16.	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	20.	1
1,4-Dioxane	ND		ug/kg	4800	2100	1
p-Diethylbenzene	ND		ug/kg	120	10.	1
p-Ethyltoluene	ND		ug/kg	120	23.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	120	11.	1
Ethyl ether	ND		ug/kg	120	20.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	300	84.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	107		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-42
Client ID: 7-B1S (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 16:21
Analyst: LAC
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	330	150	1
1,1-Dichloroethane	ND		ug/kg	66	9.6	1
Chloroform	ND		ug/kg	100	9.3	1
Carbon tetrachloride	ND		ug/kg	66	15.	1
1,2-Dichloropropane	ND		ug/kg	66	8.3	1
Dibromochloromethane	ND		ug/kg	66	9.3	1
1,1,2-Trichloroethane	ND		ug/kg	66	18.	1
Tetrachloroethene	640		ug/kg	33	13.	1
Chlorobenzene	9.8	J	ug/kg	33	8.4	1
Trichlorofluoromethane	ND		ug/kg	260	46.	1
1,2-Dichloroethane	ND		ug/kg	66	17.	1
1,1,1-Trichloroethane	ND		ug/kg	33	11.	1
Bromodichloromethane	ND		ug/kg	33	7.2	1
trans-1,3-Dichloropropene	ND		ug/kg	66	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	33	10.	1
1,3-Dichloropropene, Total	ND		ug/kg	33	10.	1
1,1-Dichloropropene	ND		ug/kg	33	10.	1
Bromoform	ND		ug/kg	260	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	33	11.	1
Benzene	ND		ug/kg	33	11.	1
Toluene	ND		ug/kg	66	36.	1
Ethylbenzene	11	J	ug/kg	66	9.4	1
Chloromethane	ND		ug/kg	260	62.	1
Bromomethane	ND		ug/kg	130	38.	1
Vinyl chloride	370		ug/kg	66	22.	1
Chloroethane	ND		ug/kg	130	30.	1
1,1-Dichloroethene	ND		ug/kg	66	16.	1
trans-1,2-Dichloroethene	170		ug/kg	100	9.1	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-42 Date Collected: 06/20/23 10:30

Client ID: 7-B1S (5.5-6) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	240		ug/kg	33	9.1	1
1,2-Dichlorobenzene	620		ug/kg	130	9.6	1
1,3-Dichlorobenzene	ND		ug/kg	130	9.8	1
1,4-Dichlorobenzene	23	J	ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	ND		ug/kg	130	37.	1
o-Xylene	ND		ug/kg	66	19.	1
Xylenes, Total	ND		ug/kg	66	19.	1
cis-1,2-Dichloroethene	3300		ug/kg	66	12.	1
1,2-Dichloroethene, Total	3500		ug/kg	66	9.1	1
Dibromomethane	ND		ug/kg	130	16.	1
Styrene	ND		ug/kg	66	13.	1
Dichlorodifluoromethane	ND		ug/kg	660	61.	1
Acetone	ND		ug/kg	660	320	1
Carbon disulfide	ND		ug/kg	660	300	1
2-Butanone	ND		ug/kg	660	150	1
Vinyl acetate	ND		ug/kg	660	140	1
4-Methyl-2-pentanone	ND		ug/kg	660	85.	1
1,2,3-Trichloropropane	ND		ug/kg	130	8.4	1
2-Hexanone	ND		ug/kg	660	78.	1
Bromochloromethane	ND		ug/kg	130	14.	1
2,2-Dichloropropane	ND		ug/kg	130	13.	1
1,2-Dibromoethane	ND		ug/kg	66	18.	1
1,3-Dichloropropane	ND		ug/kg	130	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	33	8.8	1
Bromobenzene	ND		ug/kg	130	9.6	1
n-Butylbenzene	25	J	ug/kg	66	11.	1
sec-Butylbenzene	71		ug/kg	66	9.7	1
tert-Butylbenzene	16	J	ug/kg	130	7.8	1
o-Chlorotoluene	65	J	ug/kg	130	13.	1
p-Chlorotoluene	ND		ug/kg	130	7.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	66.	1
Hexachlorobutadiene	ND		ug/kg	260	11.	1
Isopropylbenzene	ND		ug/kg	66	7.2	1
p-Isopropyltoluene	16	J	ug/kg	66	7.2	1
Naphthalene	50	J	ug/kg	260	43.	1
Acrylonitrile	ND		ug/kg	260	76.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-42 Date Collected: 06/20/23 10:30

Client ID: 7-B1S (5.5-6) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	13	J	ug/kg	66	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	18.	1
1,3,5-Trimethylbenzene	58	J	ug/kg	130	13.	1
1,2,4-Trimethylbenzene	61	J	ug/kg	130	22.	1
1,4-Dioxane	ND		ug/kg	5300	2300	1
p-Diethylbenzene	290		ug/kg	130	12.	1
p-Ethyltoluene	31	J	ug/kg	130	25.	1
1,2,4,5-Tetramethylbenzene	120	J	ug/kg	130	13.	1
Ethyl ether	ND		ug/kg	130	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	330	94.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**132**	Q	70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	124		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-42 R
Client ID: 7-B1S (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/27/23 20:34
Analyst: MKS
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	330	150	1
1,1-Dichloroethane	ND		ug/kg	66	9.6	1
Chloroform	ND		ug/kg	100	9.3	1
Carbon tetrachloride	ND		ug/kg	66	15.	1
1,2-Dichloropropane	ND		ug/kg	66	8.3	1
Dibromochloromethane	ND		ug/kg	66	9.3	1
1,1,2-Trichloroethane	ND		ug/kg	66	18.	1
Tetrachloroethene	1400		ug/kg	33	13.	1
Chlorobenzene	ND		ug/kg	33	8.4	1
Trichlorofluoromethane	ND		ug/kg	260	46.	1
1,2-Dichloroethane	ND		ug/kg	66	17.	1
1,1,1-Trichloroethane	ND		ug/kg	33	11.	1
Bromodichloromethane	ND		ug/kg	33	7.2	1
trans-1,3-Dichloropropene	ND		ug/kg	66	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	33	10.	1
1,3-Dichloropropene, Total	ND		ug/kg	33	10.	1
1,1-Dichloropropene	ND		ug/kg	33	10.	1
Bromoform	ND		ug/kg	260	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	33	11.	1
Benzene	26	J	ug/kg	33	11.	1
Toluene	49	J	ug/kg	66	36.	1
Ethylbenzene	12	J	ug/kg	66	9.4	1
Chloromethane	ND		ug/kg	260	62.	1
Bromomethane	ND		ug/kg	130	38.	1
Vinyl chloride	750		ug/kg	66	22.	1
Chloroethane	ND		ug/kg	130	30.	1
1,1-Dichloroethene	ND		ug/kg	66	16.	1
trans-1,2-Dichloroethene	330		ug/kg	100	9.1	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-42 R
Client ID: 7-B1S (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	600		ug/kg	33	9.1	1
1,2-Dichlorobenzene	680		ug/kg	130	9.6	1
1,3-Dichlorobenzene	12	J	ug/kg	130	9.8	1
1,4-Dichlorobenzene	33	J	ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	ND		ug/kg	130	37.	1
o-Xylene	ND		ug/kg	66	19.	1
Xylenes, Total	ND		ug/kg	66	19.	1
cis-1,2-Dichloroethene	10000		ug/kg	66	12.	1
1,2-Dichloroethene, Total	10000		ug/kg	66	9.1	1
Dibromomethane	ND		ug/kg	130	16.	1
Styrene	ND		ug/kg	66	13.	1
Dichlorodifluoromethane	ND		ug/kg	660	61.	1
Acetone	ND		ug/kg	660	320	1
Carbon disulfide	ND		ug/kg	660	300	1
2-Butanone	ND		ug/kg	660	150	1
Vinyl acetate	ND		ug/kg	660	140	1
4-Methyl-2-pentanone	ND		ug/kg	660	85.	1
1,2,3-Trichloropropane	ND		ug/kg	130	8.4	1
2-Hexanone	ND		ug/kg	660	78.	1
Bromochloromethane	ND		ug/kg	130	14.	1
2,2-Dichloropropane	ND		ug/kg	130	13.	1
1,2-Dibromoethane	ND		ug/kg	66	18.	1
1,3-Dichloropropane	ND		ug/kg	130	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	33	8.8	1
Bromobenzene	ND		ug/kg	130	9.6	1
n-Butylbenzene	26	J	ug/kg	66	11.	1
sec-Butylbenzene	66		ug/kg	66	9.7	1
tert-Butylbenzene	15	J	ug/kg	130	7.8	1
o-Chlorotoluene	65	J	ug/kg	130	13.	1
p-Chlorotoluene	ND		ug/kg	130	7.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	66.	1
Hexachlorobutadiene	ND		ug/kg	260	11.	1
Isopropylbenzene	ND		ug/kg	66	7.2	1
p-Isopropyltoluene	21	J	ug/kg	66	7.2	1
Naphthalene	60	J	ug/kg	260	43.	1
Acrylonitrile	ND		ug/kg	260	76.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-42 R Date Collected: 06/20/23 10:30

Client ID: 7-B1S (5.5-6) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	17	J	ug/kg	66	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	18.	1
1,3,5-Trimethylbenzene	65	J	ug/kg	130	13.	1
1,2,4-Trimethylbenzene	80	J	ug/kg	130	22.	1
1,4-Dioxane	ND		ug/kg	5300	2300	1
p-Diethylbenzene	ND		ug/kg	130	12.	1
p-Ethyltoluene	43	J	ug/kg	130	25.	1
1,2,4,5-Tetramethylbenzene	120	J	ug/kg	130	13.	1
Ethyl ether	ND		ug/kg	130	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	330	94.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**140**	Q	70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	**134**	Q	70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-44
Client ID: 7-B1SS (5-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 11:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/03/23 10:26
Analyst: JIC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	0.17	J	ug/kg	1.0	0.14	1
Chloroform	1.7		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	38		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	3.5		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	2.8		ug/kg	1.5	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-44 Date Collected: 06/20/23 11:40

Client ID: 7-B1SS (5-5.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	19		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	2.4		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	0.78	J	ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	1.2	J	ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	23		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	26		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	9.4	J	ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	3.0	J	ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	0.38	J	ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	0.92	J	ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-44 Date Collected: 06/20/23 11:40

Client ID: 7-B1SS (5-5.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	80	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	88		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-45
Client ID: 10-B6W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 12:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 13:18
Analyst: LAC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	15		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.53	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	0.49	J	ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.0	0.58	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-45 Date Collected: 06/20/23 12:00

Client ID: 10-B6W (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	1.1		ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.31	1
Xylenes, Total	ND		ug/kg	1.0	0.31	1
cis-1,2-Dichloroethene	2.1		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	2.1		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.21	1
Dichlorodifluoromethane	ND		ug/kg	10	0.97	1
Acetone	60		ug/kg	10	5.1	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	13		ug/kg	10	2.4	1
Vinyl acetate	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.53	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.12	1
p-Isopropyltoluene	0.13	J	ug/kg	1.0	0.12	1
Naphthalene	0.88	J	ug/kg	4.2	0.69	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-45 Date Collected: 06/20/23 12:00

Client ID: 10-B6W (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	0.41	J	ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	85	37.	1
p-Diethylbenzene	2.1		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	0.78	J	ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	114		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-46
Client ID: 10-B6W (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 12:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 16:44
Analyst: LAC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	270	120	1
1,1-Dichloroethane	ND		ug/kg	55	7.9	1
Chloroform	24	J	ug/kg	82	7.7	1
Carbon tetrachloride	ND		ug/kg	55	12.	1
1,2-Dichloropropane	ND		ug/kg	55	6.8	1
Dibromochloromethane	ND		ug/kg	55	7.7	1
1,1,2-Trichloroethane	ND		ug/kg	55	15.	1
Tetrachloroethene	13000		ug/kg	27	11.	1
Chlorobenzene	ND		ug/kg	27	7.0	1
Trichlorofluoromethane	ND		ug/kg	220	38.	1
1,2-Dichloroethane	ND		ug/kg	55	14.	1
1,1,1-Trichloroethane	ND		ug/kg	27	9.1	1
Bromodichloromethane	ND		ug/kg	27	6.0	1
trans-1,3-Dichloropropene	ND		ug/kg	55	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	27	8.6	1
1,3-Dichloropropene, Total	ND		ug/kg	27	8.6	1
1,1-Dichloropropene	ND		ug/kg	27	8.7	1
Bromoform	ND		ug/kg	220	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	27	9.1	1
Benzene	ND		ug/kg	27	9.1	1
Toluene	ND		ug/kg	55	30.	1
Ethylbenzene	ND		ug/kg	55	7.7	1
Chloromethane	ND		ug/kg	220	51.	1
Bromomethane	ND		ug/kg	110	32.	1
Vinyl chloride	ND		ug/kg	55	18.	1
Chloroethane	ND		ug/kg	110	25.	1
1,1-Dichloroethene	ND		ug/kg	55	13.	1
trans-1,2-Dichloroethene	ND		ug/kg	82	7.5	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-46 Date Collected: 06/20/23 12:05

Client ID: 10-B6W (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	740		ug/kg	27	7.5	1
1,2-Dichlorobenzene	ND		ug/kg	110	7.9	1
1,3-Dichlorobenzene	ND		ug/kg	110	8.1	1
1,4-Dichlorobenzene	ND		ug/kg	110	9.4	1
Methyl tert butyl ether	ND		ug/kg	110	11.	1
p/m-Xylene	ND		ug/kg	110	31.	1
o-Xylene	ND		ug/kg	55	16.	1
Xylenes, Total	ND		ug/kg	55	16.	1
cis-1,2-Dichloroethene	310		ug/kg	55	9.6	1
1,2-Dichloroethene, Total	310		ug/kg	55	7.5	1
Dibromomethane	ND		ug/kg	110	13.	1
Styrene	ND		ug/kg	55	11.	1
Dichlorodifluoromethane	ND		ug/kg	550	50.	1
Acetone	ND		ug/kg	550	260	1
Carbon disulfide	ND		ug/kg	550	250	1
2-Butanone	ND		ug/kg	550	120	1
Vinyl acetate	ND		ug/kg	550	120	1
4-Methyl-2-pentanone	ND		ug/kg	550	70.	1
1,2,3-Trichloropropane	ND		ug/kg	110	7.0	1
2-Hexanone	ND		ug/kg	550	64.	1
Bromochloromethane	ND		ug/kg	110	11.	1
2,2-Dichloropropane	ND		ug/kg	110	11.	1
1,2-Dibromoethane	ND		ug/kg	55	15.	1
1,3-Dichloropropane	ND		ug/kg	110	9.1	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	27	7.2	1
Bromobenzene	ND		ug/kg	110	7.9	1
n-Butylbenzene	ND		ug/kg	55	9.1	1
sec-Butylbenzene	ND		ug/kg	55	8.0	1
tert-Butylbenzene	ND		ug/kg	110	6.4	1
o-Chlorotoluene	ND		ug/kg	110	10.	1
p-Chlorotoluene	ND		ug/kg	110	5.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	55.	1
Hexachlorobutadiene	ND		ug/kg	220	9.2	1
Isopropylbenzene	ND		ug/kg	55	6.0	1
p-Isopropyltoluene	ND		ug/kg	55	6.0	1
Naphthalene	210	J	ug/kg	220	36.	1
Acrylonitrile	ND		ug/kg	220	63.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-46 Date Collected: 06/20/23 12:05

Client ID: 10-B6W (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	55	9.4	1
1,2,3-Trichlorobenzene	ND		ug/kg	110	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	15.	1
1,3,5-Trimethylbenzene	ND		ug/kg	110	10.	1
1,2,4-Trimethylbenzene	ND		ug/kg	110	18.	1
1,4-Dioxane	ND		ug/kg	4400	1900	1
p-Diethylbenzene	ND		ug/kg	110	9.7	1
p-Ethyltoluene	ND		ug/kg	110	21.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	110	10.	1
Ethyl ether	ND		ug/kg	110	19.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	270	78.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-47
Client ID: 10-B6W (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 12:10
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/24/23 13:41
Analyst: LAC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.3	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.86	0.12	1
Chloroform	0.18	J	ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.86	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.86	0.11	1
Dibromochloromethane	ND		ug/kg	0.86	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.86	0.23	1
Tetrachloroethene	66		ug/kg	0.43	0.17	1
Chlorobenzene	ND		ug/kg	0.43	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.60	1
1,2-Dichloroethane	ND		ug/kg	0.86	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.43	0.14	1
Bromodichloromethane	ND		ug/kg	0.43	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.86	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.43	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.43	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.43	0.14	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.43	0.14	1
Benzene	ND		ug/kg	0.43	0.14	1
Toluene	ND		ug/kg	0.86	0.46	1
Ethylbenzene	ND		ug/kg	0.86	0.12	1
Chloromethane	ND		ug/kg	3.4	0.80	1
Bromomethane	ND		ug/kg	1.7	0.50	1
Vinyl chloride	51		ug/kg	0.86	0.29	1
Chloroethane	ND		ug/kg	1.7	0.39	1
1,1-Dichloroethene	ND		ug/kg	0.86	0.20	1
trans-1,2-Dichloroethene	5.2		ug/kg	1.3	0.12	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-47 Date Collected: 06/20/23 12:10

Client ID: 10-B6W (7.5-8) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	14		ug/kg	0.43	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.48	1
o-Xylene	ND		ug/kg	0.86	0.25	1
Xylenes, Total	ND		ug/kg	0.86	0.25	1
cis-1,2-Dichloroethene	54		ug/kg	0.86	0.15	1
1,2-Dichloroethene, Total	59		ug/kg	0.86	0.12	1
Dibromomethane	ND		ug/kg	1.7	0.20	1
Styrene	ND		ug/kg	0.86	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.6	0.78	1
Acetone	11		ug/kg	8.6	4.1	1
Carbon disulfide	ND		ug/kg	8.6	3.9	1
2-Butanone	3.1	J	ug/kg	8.6	1.9	1
Vinyl acetate	ND		ug/kg	8.6	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.6	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.6	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.86	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.43	0.11	1
Bromobenzene	ND		ug/kg	1.7	0.12	1
n-Butylbenzene	ND		ug/kg	0.86	0.14	1
sec-Butylbenzene	ND		ug/kg	0.86	0.12	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.86	1
Hexachlorobutadiene	ND		ug/kg	3.4	0.14	1
Isopropylbenzene	ND		ug/kg	0.86	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.86	0.09	1
Naphthalene	ND		ug/kg	3.4	0.56	1
Acrylonitrile	ND		ug/kg	3.4	0.99	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-47 Date Collected: 06/20/23 12:10

Client ID: 10-B6W (7.5-8) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.86	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.29	1
1,4-Dioxane	ND		ug/kg	69	30.	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.33	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.16	1
Ethyl ether	ND		ug/kg	1.7	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.3	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	111		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-49
Client ID: 10-B6WW (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 13:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/03/23 09:48
Analyst: JIC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.3	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.86	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.86	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.86	0.11	1
Dibromochloromethane	ND		ug/kg	0.86	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.86	0.23	1
Tetrachloroethene	0.63		ug/kg	0.43	0.17	1
Chlorobenzene	ND		ug/kg	0.43	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.60	1
1,2-Dichloroethane	ND		ug/kg	0.86	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.43	0.14	1
Bromodichloromethane	ND		ug/kg	0.43	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.86	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.43	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.43	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.43	0.14	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.43	0.14	1
Benzene	ND		ug/kg	0.43	0.14	1
Toluene	ND		ug/kg	0.86	0.47	1
Ethylbenzene	ND		ug/kg	0.86	0.12	1
Chloromethane	ND		ug/kg	3.4	0.80	1
Bromomethane	ND		ug/kg	1.7	0.50	1
Vinyl chloride	1.7		ug/kg	0.86	0.29	1
Chloroethane	ND		ug/kg	1.7	0.39	1
1,1-Dichloroethene	ND		ug/kg	0.86	0.20	1
trans-1,2-Dichloroethene	0.29	J	ug/kg	1.3	0.12	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-49 Date Collected: 06/20/23 13:05

Client ID: 10-B6WW (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.30	J	ug/kg	0.43	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.48	1
o-Xylene	ND		ug/kg	0.86	0.25	1
Xylenes, Total	ND		ug/kg	0.86	0.25	1
cis-1,2-Dichloroethene	4.8		ug/kg	0.86	0.15	1
1,2-Dichloroethene, Total	5.1	J	ug/kg	0.86	0.12	1
Dibromomethane	ND		ug/kg	1.7	0.20	1
Styrene	ND		ug/kg	0.86	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.6	0.78	1
Acetone	32		ug/kg	8.6	4.1	1
Carbon disulfide	ND		ug/kg	8.6	3.9	1
2-Butanone	8.6		ug/kg	8.6	1.9	1
Vinyl acetate	ND		ug/kg	8.6	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.6	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.6	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.86	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.43	0.11	1
Bromobenzene	ND		ug/kg	1.7	0.12	1
n-Butylbenzene	ND		ug/kg	0.86	0.14	1
sec-Butylbenzene	ND		ug/kg	0.86	0.12	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.86	1
Hexachlorobutadiene	ND		ug/kg	3.4	0.14	1
Isopropylbenzene	ND		ug/kg	0.86	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.86	0.09	1
Naphthalene	ND		ug/kg	3.4	0.56	1
Acrylonitrile	ND		ug/kg	3.4	0.99	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-49 Date Collected: 06/20/23 13:05

Client ID: 10-B6WW (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.86	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.29	1
1,4-Dioxane	ND		ug/kg	69	30.	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.33	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.16	1
Ethyl ether	ND		ug/kg	1.7	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.3	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	89		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-50
Client ID: 10-B6WW (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 13:10
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/01/23 23:16
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.88	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.88	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.88	0.11	1
Dibromochloromethane	ND		ug/kg	0.88	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.88	0.23	1
Tetrachloroethene	ND		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.61	1
1,2-Dichloroethane	ND		ug/kg	0.88	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.15	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.44	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.5	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.14	1
Benzene	0.16	J	ug/kg	0.44	0.14	1
Toluene	ND		ug/kg	0.88	0.48	1
Ethylbenzene	ND		ug/kg	0.88	0.12	1
Chloromethane	ND		ug/kg	3.5	0.82	1
Bromomethane	ND		ug/kg	1.8	0.51	1
Vinyl chloride	ND		ug/kg	0.88	0.29	1
Chloroethane	ND		ug/kg	1.8	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.88	0.21	1
trans-1,2-Dichloroethene	0.26	J	ug/kg	1.3	0.12	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-50 Date Collected: 06/20/23 13:10

Client ID: 10-B6WW (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.49	1
o-Xylene	ND		ug/kg	0.88	0.25	1
Xylenes, Total	ND		ug/kg	0.88	0.25	1
cis-1,2-Dichloroethene	0.22	J	ug/kg	0.88	0.15	1
1,2-Dichloroethene, Total	0.48	J	ug/kg	0.88	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.21	1
Styrene	ND		ug/kg	0.88	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.8	0.80	1
Acetone	23		ug/kg	8.8	4.2	1
Carbon disulfide	ND		ug/kg	8.8	4.0	1
2-Butanone	8.8		ug/kg	8.8	1.9	1
Vinyl acetate	ND		ug/kg	8.8	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.8	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.11	1
2-Hexanone	ND		ug/kg	8.8	1.0	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.88	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.88	0.15	1
sec-Butylbenzene	ND		ug/kg	0.88	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.10	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.87	1
Hexachlorobutadiene	ND		ug/kg	3.5	0.15	1
Isopropylbenzene	ND		ug/kg	0.88	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.88	0.10	1
Naphthalene	ND		ug/kg	3.5	0.57	1
Acrylonitrile	ND		ug/kg	3.5	1.0	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-50 Date Collected: 06/20/23 13:10

Client ID: 10-B6WW (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.88	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.29	1
1,4-Dioxane	ND		ug/kg	70	31.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.34	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.4	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-51
Client ID: 10-B6N (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 16:16
Analyst: JIC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	1.6	J	ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	770	E	ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	ND		ug/kg	0.56	0.18	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-51 Date Collected: 06/20/23 13:30

Client ID: 10-B6N (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	48		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	9.3		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	9.3		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	10	J	ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-51 Date Collected: 06/20/23 13:30

Client ID: 10-B6N (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	89	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-51
Client ID: 10-B6N (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/28/23 09:46
Analyst: MKS
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	340	150	1
1,1-Dichloroethane	ND		ug/kg	68	9.8	1
Chloroform	ND		ug/kg	100	9.5	1
Carbon tetrachloride	ND		ug/kg	68	16.	1
1,2-Dichloropropane	ND		ug/kg	68	8.4	1
Dibromochloromethane	ND		ug/kg	68	9.5	1
1,1,2-Trichloroethane	ND		ug/kg	68	18.	1
Tetrachloroethene	290		ug/kg	34	13.	1
Chlorobenzene	ND		ug/kg	34	8.6	1
Trichlorofluoromethane	ND		ug/kg	270	47.	1
1,2-Dichloroethane	ND		ug/kg	68	17.	1
1,1,1-Trichloroethane	ND		ug/kg	34	11.	1
Bromodichloromethane	ND		ug/kg	34	7.4	1
trans-1,3-Dichloropropene	ND		ug/kg	68	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	34	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	34	11.	1
1,1-Dichloropropene	ND		ug/kg	34	11.	1
Bromoform	ND		ug/kg	270	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	11.	1
Benzene	ND		ug/kg	34	11.	1
Toluene	ND		ug/kg	68	37.	1
Ethylbenzene	ND		ug/kg	68	9.5	1
Chloromethane	ND		ug/kg	270	63.	1
Bromomethane	ND		ug/kg	140	39.	1
Vinyl chloride	ND		ug/kg	68	23.	1
Chloroethane	ND		ug/kg	140	30.	1
1,1-Dichloroethene	ND		ug/kg	68	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	9.3	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-51 Date Collected: 06/20/23 13:30

Client ID: 10-B6N (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	30	J	ug/kg	34	9.3	1
1,2-Dichlorobenzene	ND		ug/kg	140	9.7	1
1,3-Dichlorobenzene	ND		ug/kg	140	10.	1
1,4-Dichlorobenzene	ND		ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	ND		ug/kg	140	38.	1
o-Xylene	ND		ug/kg	68	20.	1
Xylenes, Total	ND		ug/kg	68	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	68	12.	1
1,2-Dichloroethene, Total	ND		ug/kg	68	9.3	1
Dibromomethane	ND		ug/kg	140	16.	1
Styrene	ND		ug/kg	68	13.	1
Dichlorodifluoromethane	ND		ug/kg	680	62.	1
Acetone	ND		ug/kg	680	320	1
Carbon disulfide	ND		ug/kg	680	310	1
2-Butanone	ND		ug/kg	680	150	1
Vinyl acetate	ND		ug/kg	680	140	1
4-Methyl-2-pentanone	ND		ug/kg	680	87.	1
1,2,3-Trichloropropane	ND		ug/kg	140	8.6	1
2-Hexanone	ND		ug/kg	680	80.	1
Bromochloromethane	ND		ug/kg	140	14.	1
2,2-Dichloropropane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	68	19.	1
1,3-Dichloropropane	ND		ug/kg	140	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	8.9	1
Bromobenzene	ND		ug/kg	140	9.8	1
n-Butylbenzene	ND		ug/kg	68	11.	1
sec-Butylbenzene	ND		ug/kg	68	9.9	1
tert-Butylbenzene	ND		ug/kg	140	8.0	1
o-Chlorotoluene	ND		ug/kg	140	13.	1
p-Chlorotoluene	ND		ug/kg	140	7.3	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	68.	1
Hexachlorobutadiene	ND		ug/kg	270	11.	1
Isopropylbenzene	ND		ug/kg	68	7.4	1
p-Isopropyltoluene	ND		ug/kg	68	7.4	1
Naphthalene	ND		ug/kg	270	44.	1
Acrylonitrile	ND		ug/kg	270	78.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-51 Date Collected: 06/20/23 13:30

Client ID: 10-B6N (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	68	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	18.	1
1,3,5-Trimethylbenzene	ND		ug/kg	140	13.	1
1,2,4-Trimethylbenzene	ND		ug/kg	140	23.	1
1,4-Dioxane	ND		ug/kg	5400	2400	1
p-Diethylbenzene	ND		ug/kg	140	12.	1
p-Ethyltoluene	ND		ug/kg	140	26.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	140	13.	1
Ethyl ether	ND		ug/kg	140	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	340	96.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	117		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-52
Client ID: 10-B6N (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 13:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 20:09
Analyst: JIC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	290	130	1
1,1-Dichloroethane	ND		ug/kg	58	8.4	1
Chloroform	8.3	J	ug/kg	87	8.1	1
Carbon tetrachloride	ND		ug/kg	58	13.	1
1,2-Dichloropropane	ND		ug/kg	58	7.2	1
Dibromochloromethane	ND		ug/kg	58	8.1	1
1,1,2-Trichloroethane	ND		ug/kg	58	15.	1
Tetrachloroethene	18000	E	ug/kg	29	11.	1
Chlorobenzene	ND		ug/kg	29	7.3	1
Trichlorofluoromethane	ND		ug/kg	230	40.	1
1,2-Dichloroethane	ND		ug/kg	58	15.	1
1,1,1-Trichloroethane	ND		ug/kg	29	9.7	1
Bromodichloromethane	ND		ug/kg	29	6.3	1
trans-1,3-Dichloropropene	ND		ug/kg	58	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	29	9.1	1
1,3-Dichloropropene, Total	ND		ug/kg	29	9.1	1
1,1-Dichloropropene	ND		ug/kg	29	9.2	1
Bromoform	ND		ug/kg	230	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	29	9.6	1
Benzene	ND		ug/kg	29	9.6	1
Toluene	ND		ug/kg	58	31.	1
Ethylbenzene	ND		ug/kg	58	8.2	1
Chloromethane	ND		ug/kg	230	54.	1
Bromomethane	ND		ug/kg	120	34.	1
Vinyl chloride	ND		ug/kg	58	19.	1
Chloroethane	ND		ug/kg	120	26.	1
1,1-Dichloroethene	ND		ug/kg	58	14.	1
trans-1,2-Dichloroethene	ND		ug/kg	87	7.9	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-52 Date Collected: 06/20/23 13:35

Client ID: 10-B6N (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	950		ug/kg	29	7.9	1
1,2-Dichlorobenzene	ND		ug/kg	120	8.3	1
1,3-Dichlorobenzene	ND		ug/kg	120	8.6	1
1,4-Dichlorobenzene	ND		ug/kg	120	9.9	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	ND		ug/kg	120	32.	1
o-Xylene	ND		ug/kg	58	17.	1
Xylenes, Total	ND		ug/kg	58	17.	1
cis-1,2-Dichloroethene	210		ug/kg	58	10.	1
1,2-Dichloroethene, Total	210		ug/kg	58	7.9	1
Dibromomethane	ND		ug/kg	120	14.	1
Styrene	ND		ug/kg	58	11.	1
Dichlorodifluoromethane	ND		ug/kg	580	53.	1
Acetone	ND		ug/kg	580	280	1
Carbon disulfide	ND		ug/kg	580	260	1
2-Butanone	ND		ug/kg	580	130	1
Vinyl acetate	ND		ug/kg	580	120	1
4-Methyl-2-pentanone	ND		ug/kg	580	74.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.3	1
2-Hexanone	ND		ug/kg	580	68.	1
Bromochloromethane	ND		ug/kg	120	12.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	58	16.	1
1,3-Dichloropropane	ND		ug/kg	120	9.7	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	29	7.6	1
Bromobenzene	ND		ug/kg	120	8.4	1
n-Butylbenzene	ND		ug/kg	58	9.7	1
sec-Butylbenzene	ND		ug/kg	58	8.4	1
tert-Butylbenzene	ND		ug/kg	120	6.8	1
o-Chlorotoluene	ND		ug/kg	120	11.	1
p-Chlorotoluene	ND		ug/kg	120	6.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	170	58.	1
Hexachlorobutadiene	ND		ug/kg	230	9.8	1
Isopropylbenzene	ND		ug/kg	58	6.3	1
p-Isopropyltoluene	ND		ug/kg	58	6.3	1
Naphthalene	94	J	ug/kg	230	38.	1
Acrylonitrile	ND		ug/kg	230	66.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-52 Date Collected: 06/20/23 13:35

Client ID: 10-B6N (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	58	9.9	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	16.	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	19.	1
1,4-Dioxane	ND		ug/kg	4600	2000	1
p-Diethylbenzene	ND		ug/kg	120	10.	1
p-Ethyltoluene	ND		ug/kg	120	22.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	120	11.	1
Ethyl ether	ND		ug/kg	120	20.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	290	82.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	93		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-52 D
Client ID: 10-B6N (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 13:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/28/23 10:09
Analyst: MKS
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	17000		ug/kg	290	110	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	110		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-53
Client ID: 10-B6N (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 13:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 16:42
Analyst: JIC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	4.0		ug/kg	0.52	0.21	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.18	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	8.0		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	17		ug/kg	1.6	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-53 Date Collected: 06/20/23 13:40

Client ID: 10-B6N (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	3.3		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	23		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	40		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.21	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	190		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	38		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-53 Date Collected: 06/20/23 13:40

Client ID: 10-B6N (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-54
Client ID: 10-B6E (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:20
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 17:07
Analyst: JIC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	1.8		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.18	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	0.75	J	ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-54 Date Collected: 06/20/23 14:20

Client ID: 10-B6E (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	28		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	11		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	0.90	J	ug/kg	1.0	0.11	1
Naphthalene	21		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-54 Date Collected: 06/20/23 14:20

Client ID: 10-B6E (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	0.62	J	ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	0.73	J	ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	0.55	J	ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	0.38	J	ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	87		70-130

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-55
Client ID: 10-B6E (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:25
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 20:34
Analyst: JIC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	310	140	1
1,1-Dichloroethane	ND		ug/kg	62	9.0	1
Chloroform	ND		ug/kg	93	8.7	1
Carbon tetrachloride	ND		ug/kg	62	14.	1
1,2-Dichloropropane	ND		ug/kg	62	7.8	1
Dibromochloromethane	ND		ug/kg	62	8.7	1
1,1,2-Trichloroethane	ND		ug/kg	62	17.	1
Tetrachloroethene	7300		ug/kg	31	12.	1
Chlorobenzene	ND		ug/kg	31	7.9	1
Trichlorofluoromethane	ND		ug/kg	250	43.	1
1,2-Dichloroethane	ND		ug/kg	62	16.	1
1,1,1-Trichloroethane	ND		ug/kg	31	10.	1
Bromodichloromethane	ND		ug/kg	31	6.8	1
trans-1,3-Dichloropropene	ND		ug/kg	62	17.	1
cis-1,3-Dichloropropene	ND		ug/kg	31	9.8	1
1,3-Dichloropropene, Total	ND		ug/kg	31	9.8	1
1,1-Dichloropropene	ND		ug/kg	31	9.9	1
Bromoform	ND		ug/kg	250	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	31	10.	1
Benzene	ND		ug/kg	31	10.	1
Toluene	ND		ug/kg	62	34.	1
Ethylbenzene	ND		ug/kg	62	8.8	1
Chloromethane	ND		ug/kg	250	58.	1
Bromomethane	ND		ug/kg	120	36.	1
Vinyl chloride	ND		ug/kg	62	21.	1
Chloroethane	ND		ug/kg	120	28.	1
1,1-Dichloroethene	ND		ug/kg	62	15.	1
trans-1,2-Dichloroethene	ND		ug/kg	93	8.5	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-55 Date Collected: 06/20/23 14:25

Client ID: 10-B6E (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	360		ug/kg	31	8.5	1
1,2-Dichlorobenzene	ND		ug/kg	120	9.0	1
1,3-Dichlorobenzene	ND		ug/kg	120	9.2	1
1,4-Dichlorobenzene	ND		ug/kg	120	11.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	ND		ug/kg	120	35.	1
o-Xylene	ND		ug/kg	62	18.	1
Xylenes, Total	ND		ug/kg	62	18.	1
cis-1,2-Dichloroethene	25	J	ug/kg	62	11.	1
1,2-Dichloroethene, Total	25	J	ug/kg	62	8.5	1
Dibromomethane	ND		ug/kg	120	15.	1
Styrene	ND		ug/kg	62	12.	1
Dichlorodifluoromethane	ND		ug/kg	620	57.	1
Acetone	ND		ug/kg	620	300	1
Carbon disulfide	ND		ug/kg	620	280	1
2-Butanone	ND		ug/kg	620	140	1
Vinyl acetate	ND		ug/kg	620	130	1
4-Methyl-2-pentanone	ND		ug/kg	620	80.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.9	1
2-Hexanone	ND		ug/kg	620	73.	1
Bromochloromethane	ND		ug/kg	120	13.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	62	17.	1
1,3-Dichloropropane	ND		ug/kg	120	10.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	31	8.2	1
Bromobenzene	ND		ug/kg	120	9.0	1
n-Butylbenzene	ND		ug/kg	62	10.	1
sec-Butylbenzene	ND		ug/kg	62	9.1	1
tert-Butylbenzene	ND		ug/kg	120	7.3	1
o-Chlorotoluene	ND		ug/kg	120	12.	1
p-Chlorotoluene	ND		ug/kg	120	6.7	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	190	62.	1
Hexachlorobutadiene	ND		ug/kg	250	10.	1
Isopropylbenzene	ND		ug/kg	62	6.8	1
p-Isopropyltoluene	ND		ug/kg	62	6.8	1
Naphthalene	ND		ug/kg	250	40.	1
Acrylonitrile	ND		ug/kg	250	72.	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-55 Date Collected: 06/20/23 14:25

Client ID: 10-B6E (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	62	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	17.	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	12.	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	21.	1
1,4-Dioxane	ND		ug/kg	5000	2200	1
p-Diethylbenzene	ND		ug/kg	120	11.	1
p-Ethyltoluene	ND		ug/kg	120	24.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	120	12.	1
Ethyl ether	ND		ug/kg	120	21.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	310	88.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	98		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-56
Client ID: 10-B6E (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 17:33
Analyst: JIC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.55	0.21	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	1.1	J	ug/kg	1.6	0.15	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-56 Date Collected: 06/20/23 14:30

Client ID: 10-B6E (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	1.1	J	ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	86		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	12		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-56 Date Collected: 06/20/23 14:30

Client ID: 10-B6E (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	88	38.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.19	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-58
Client ID: 10-B6EE (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/03/23 11:05
Analyst: JIC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.92	0.13	1
Chloroform	0.24	J	ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.92	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.92	0.11	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.24	1
Tetrachloroethene	7.2		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.14	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.92	0.50	1
Ethylbenzene	ND		ug/kg	0.92	0.13	1
Chloromethane	ND		ug/kg	3.7	0.85	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-58 Date Collected: 06/20/23 14:05

Client ID: 10-B6EE (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	3.9		ug/kg	0.46	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.92	0.27	1
Xylenes, Total	ND		ug/kg	0.92	0.27	1
cis-1,2-Dichloroethene	2.1		ug/kg	0.92	0.16	1
1,2-Dichloroethene, Total	2.1		ug/kg	0.92	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.92	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.84	1
Acetone	5.7	J	ug/kg	9.2	4.4	1
Carbon disulfide	ND		ug/kg	9.2	4.2	1
2-Butanone	4.9	J	ug/kg	9.2	2.0	1
Vinyl acetate	ND		ug/kg	9.2	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.2	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.92	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.92	0.15	1
sec-Butylbenzene	ND		ug/kg	0.92	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.91	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.15	1
Isopropylbenzene	ND		ug/kg	0.92	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.10	1
Naphthalene	ND		ug/kg	3.7	0.60	1
Acrylonitrile	ND		ug/kg	3.7	1.0	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-58 Date Collected: 06/20/23 14:05

Client ID: 10-B6EE (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.30	1
1,4-Dioxane	ND		ug/kg	73	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	90		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-59
Client ID: 10-B6EE (5-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:10
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/01/23 23:43
Analyst: AJK
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	0.50	J	ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	17		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-59 Date Collected: 06/20/23 14:10

Client ID: 10-B6EE (5-5.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	7.7		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	2.0		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	2.0		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	13		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	2.5	J	ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.66	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-59 Date Collected: 06/20/23 14:10

Client ID: 10-B6EE (5-5.5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	81	36.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-60
Client ID: 10-B6S (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 17:59
Analyst: JIC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	0.31	J	ug/kg	1.6	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	41		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-60 Date Collected: 06/20/23 14:40

Client ID: 10-B6S (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	1.5		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	9.0	J	ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.67	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-60 Date Collected: 06/20/23 14:40

Client ID: 10-B6S (1.5-2) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	83	36.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-61
Client ID: 10-B6S (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 18:25
Analyst: JIC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.93	0.13	1
Chloroform	0.16	J	ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.93	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.93	0.12	1
Dibromochloromethane	ND		ug/kg	0.93	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.93	0.25	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.93	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.15	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.46	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.46	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.93	0.50	1
Ethylbenzene	ND		ug/kg	0.93	0.13	1
Chloromethane	ND		ug/kg	3.7	0.86	1
Bromomethane	ND		ug/kg	1.8	0.54	1
Vinyl chloride	ND		ug/kg	0.93	0.31	1
Chloroethane	ND		ug/kg	1.8	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.93	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-61 Date Collected: 06/20/23 14:45

Client ID: 10-B6S (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.46	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.19	1
p/m-Xylene	ND		ug/kg	1.8	0.52	1
o-Xylene	ND		ug/kg	0.93	0.27	1
Xylenes, Total	ND		ug/kg	0.93	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.93	0.13	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.93	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.3	0.85	1
Acetone	6.2	J	ug/kg	9.3	4.4	1
Carbon disulfide	ND		ug/kg	9.3	4.2	1
2-Butanone	ND		ug/kg	9.3	2.0	1
Vinyl acetate	ND		ug/kg	9.3	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.3	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.3	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.93	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.46	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.93	0.15	1
sec-Butylbenzene	ND		ug/kg	0.93	0.14	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.18	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.92	1
Hexachlorobutadiene	ND		ug/kg	3.7	0.16	1
Isopropylbenzene	ND		ug/kg	0.93	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.93	0.10	1
Naphthalene	ND		ug/kg	3.7	0.60	1
Acrylonitrile	ND		ug/kg	3.7	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-61 Date Collected: 06/20/23 14:45

Client ID: 10-B6S (4.5-5) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.93	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.31	1
1,4-Dioxane	ND		ug/kg	74	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.18	1
Ethyl ether	ND		ug/kg	1.8	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	106		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-62
Client ID: 10-B6S (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 06/26/23 18:51
Analyst: JIC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.94	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.94	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.94	0.12	1
Dibromochloromethane	ND		ug/kg	0.94	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.94	0.25	1
Tetrachloroethene	ND		ug/kg	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.65	1
1,2-Dichloroethane	ND		ug/kg	0.94	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.47	0.16	1
Bromodichloromethane	ND		ug/kg	0.47	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.94	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.47	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.47	0.16	1
Benzene	ND		ug/kg	0.47	0.16	1
Toluene	ND		ug/kg	0.94	0.51	1
Ethylbenzene	ND		ug/kg	0.94	0.13	1
Chloromethane	ND		ug/kg	3.8	0.88	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.94	0.32	1
Chloroethane	ND		ug/kg	1.9	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.94	0.22	1
trans-1,2-Dichloroethene	0.19	J	ug/kg	1.4	0.13	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-62 Date Collected: 06/20/23 14:50

Client ID: 10-B6S (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.47	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.53	1
o-Xylene	ND		ug/kg	0.94	0.27	1
Xylenes, Total	ND		ug/kg	0.94	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.16	1
1,2-Dichloroethene, Total	0.19	J	ug/kg	0.94	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.22	1
Styrene	ND		ug/kg	0.94	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.4	0.86	1
Acetone	72		ug/kg	9.4	4.5	1
Carbon disulfide	ND		ug/kg	9.4	4.3	1
2-Butanone	21		ug/kg	9.4	2.1	1
Vinyl acetate	ND		ug/kg	9.4	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.4	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.19	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.94	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.47	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.94	0.16	1
sec-Butylbenzene	ND		ug/kg	0.94	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.94	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.94	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.94	0.10	1
Naphthalene	ND		ug/kg	3.8	0.61	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-62 Date Collected: 06/20/23 14:50

Client ID: 10-B6S (9.5-10) Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.94	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.31	1
1,4-Dioxane	ND		ug/kg	75	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.7	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/26/23 12:48
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 51,53-54,56,60-62 Batch: WG1797137-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/26/23 12:48
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 51,53-54,56,60-62 Batch: WG1797137-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/26/23 12:48
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 51,53-54,56,60-62 Batch: WG1797137-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/26/23 12:48
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 52,55 Batch: WG1797141-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/26/23 12:48
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 52,55 Batch: WG1797141-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/26/23 12:48
Analyst: JIC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 52,55 Batch: WG1797141-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/27/23 19:48
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26-27,42 Batch: WG1797169-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/27/23 19:48
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26-27,42 Batch: WG1797169-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/27/23 19:48
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26-27,42 Batch: WG1797169-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	123		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/27/23 19:48
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 26 Batch: WG1797173-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/27/23 19:48
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 26 Batch: WG1797173-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/27/23 19:48
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 26 Batch: WG1797173-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**131**	Q	70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	123		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/24/23 09:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 27,33-34,41-42,46 Batch: WG1797202-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/24/23 09:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 27,33-34,41-42,46 Batch: WG1797202-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/24/23 09:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 27,33-34,41-42,46 Batch: WG1797202-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	123		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/24/23 09:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26,28,32,35-36,40,45,47 Batch: WG1797206-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/24/23 09:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26,28,32,35-36,40,45,47 Batch: WG1797206-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/24/23 09:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26,28,32,35-36,40,45,47 Batch: WG1797206-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	123		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/28/23 09:23
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 51-52 Batch: WG1797314-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/28/23 09:23
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 51-52 Batch: WG1797314-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/28/23 09:23
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 51-52 Batch: WG1797314-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	119		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 08:31
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 31,44,49,58 Batch: WG1799615-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 08:31
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 31,44,49,58 Batch: WG1799615-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 08:31
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 31,44,49,58 Batch: WG1799615-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.46	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	87		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 09:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 29-30 Batch: WG1799618-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 09:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 29-30 Batch: WG1799618-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 09:10
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 29-30 Batch: WG1799618-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	83		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 15:06
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 50,59 Batch: WG1799631-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	2.0		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 15:06
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 50,59 Batch: WG1799631-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 15:06
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 50,59 Batch: WG1799631-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 15:06
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 29 Batch: WG1799762-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	99	J	ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 15:06
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 29 Batch: WG1799762-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 15:06
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 29 Batch: WG1799762-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 51,53-54,56,60-62 Batch: WG1797137-3 WG1797137-4								
Methylene chloride	88		89		70-130	1		30
1,1-Dichloroethane	124		126		70-130	2		30
Chloroform	92		92		70-130	0		30
Carbon tetrachloride	92		94		70-130	2		30
1,2-Dichloropropane	121		125		70-130	3		30
Dibromochloromethane	91		92		70-130	1		30
1,1,2-Trichloroethane	88		90		70-130	2		30
Tetrachloroethene	102		103		70-130	1		30
Chlorobenzene	94		95		70-130	1		30
Trichlorofluoromethane	76		80		70-139	5		30
1,2-Dichloroethane	102		105		70-130	3		30
1,1,1-Trichloroethane	97		99		70-130	2		30
Bromodichloromethane	90		92		70-130	2		30
trans-1,3-Dichloropropene	92		92		70-130	0		30
cis-1,3-Dichloropropene	95		97		70-130	2		30
1,1-Dichloropropene	102		103		70-130	1		30
Bromoform	85		88		70-130	3		30
1,1,2,2-Tetrachloroethane	78		81		70-130	4		30
Benzene	96		98		70-130	2		30
Toluene	93		95		70-130	2		30
Ethylbenzene	96		98		70-130	2		30
Chloromethane	**135**	Q	**133**	Q	52-130	1		30
Bromomethane	62		59		57-147	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 51,53-54,56,60-62 Batch: WG1797137-3 WG1797137-4								
Vinyl chloride	80		78		67-130	3		30
Chloroethane	60		59		50-151	2		30
1,1-Dichloroethene	97		97		65-135	0		30
trans-1,2-Dichloroethene	99		99		70-130	0		30
Trichloroethene	99		102		70-130	3		30
1,2-Dichlorobenzene	92		97		70-130	5		30
1,3-Dichlorobenzene	94		98		70-130	4		30
1,4-Dichlorobenzene	92		94		70-130	2		30
Methyl tert butyl ether	91		94		66-130	3		30
p/m-Xylene	100		101		70-130	1		30
o-Xylene	98		99		70-130	1		30
cis-1,2-Dichloroethene	96		98		70-130	2		30
Dibromomethane	81		84		70-130	4		30
Styrene	99		99		70-130	0		30
Dichlorodifluoromethane	56		56		30-146	0		30
Acetone	89		90		54-140	1		30
Carbon disulfide	92		91		59-130	1		30
2-Butanone	105		97		70-130	8		30
Vinyl acetate	83		87		70-130	5		30
4-Methyl-2-pentanone	128		129		70-130	1		30
1,2,3-Trichloropropane	78		82		68-130	5		30
2-Hexanone	110		112		70-130	2		30
Bromochloromethane	92		94		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 51,53-54,56,60-62 Batch: WG1797137-3 WG1797137-4								
2,2-Dichloropropane	93		94		70-130	1		30
1,2-Dibromoethane	93		96		70-130	3		30
1,3-Dichloropropane	89		90		69-130	1		30
1,1,1,2-Tetrachloroethane	98		98		70-130	0		30
Bromobenzene	94		97		70-130	3		30
n-Butylbenzene	87		89		70-130	2		30
sec-Butylbenzene	96		101		70-130	5		30
tert-Butylbenzene	96		100		70-130	4		30
o-Chlorotoluene	92		95		70-130	3		30
p-Chlorotoluene	89		93		70-130	4		30
1,2-Dibromo-3-chloropropane	86		89		68-130	3		30
Hexachlorobutadiene	95		98		67-130	3		30
Isopropylbenzene	99		102		70-130	3		30
p-Isopropyltoluene	95		98		70-130	3		30
Naphthalene	86		91		70-130	6		30
Acrylonitrile	126		124		70-130	2		30
n-Propylbenzene	93		97		70-130	4		30
1,2,3-Trichlorobenzene	87		91		70-130	4		30
1,2,4-Trichlorobenzene	88		90		70-130	2		30
1,3,5-Trimethylbenzene	95		98		70-130	3		30
1,2,4-Trimethylbenzene	95		98		70-130	3		30
1,4-Dioxane	94		94		65-136	0		30
p-Diethylbenzene	94		97		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 51,53-54,56,60-62 Batch: WG1797137-3 WG1797137-4								
p-Ethyltoluene	99		102		70-130	3		30
1,2,4,5-Tetramethylbenzene	97		99		70-130	2		30
Ethyl ether	89		94		67-130	5		30
trans-1,4-Dichloro-2-butene	119		116		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		91		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	100		103		70-130
Dibromofluoromethane	94		94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 52,55 Batch: WG1797141-3 WG1797141-4								
Methylene chloride	88		89		70-130	1		30
1,1-Dichloroethane	124		126		70-130	2		30
Chloroform	92		92		70-130	0		30
Carbon tetrachloride	92		94		70-130	2		30
1,2-Dichloropropane	121		125		70-130	3		30
Dibromochloromethane	91		92		70-130	1		30
1,1,2-Trichloroethane	88		90		70-130	2		30
Tetrachloroethene	102		103		70-130	1		30
Chlorobenzene	94		95		70-130	1		30
Trichlorofluoromethane	76		80		70-139	5		30
1,2-Dichloroethane	102		105		70-130	3		30
1,1,1-Trichloroethane	97		99		70-130	2		30
Bromodichloromethane	90		92		70-130	2		30
trans-1,3-Dichloropropene	92		92		70-130	0		30
cis-1,3-Dichloropropene	95		97		70-130	2		30
1,1-Dichloropropene	102		103		70-130	1		30
Bromoform	85		88		70-130	3		30
1,1,2,2-Tetrachloroethane	78		81		70-130	4		30
Benzene	96		98		70-130	2		30
Toluene	93		95		70-130	2		30
Ethylbenzene	96		98		70-130	2		30
Chloromethane	**135**	Q	**133**	Q	52-130	1		30
Bromomethane	62		59		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 52,55 Batch: WG1797141-3 WG1797141-4								
Vinyl chloride	80		78		67-130	3		30
Chloroethane	60		59		50-151	2		30
1,1-Dichloroethene	97		97		65-135	0		30
trans-1,2-Dichloroethene	99		99		70-130	0		30
Trichloroethene	99		102		70-130	3		30
1,2-Dichlorobenzene	92		97		70-130	5		30
1,3-Dichlorobenzene	94		98		70-130	4		30
1,4-Dichlorobenzene	92		94		70-130	2		30
Methyl tert butyl ether	91		94		66-130	3		30
p/m-Xylene	100		101		70-130	1		30
o-Xylene	98		99		70-130	1		30
cis-1,2-Dichloroethene	96		98		70-130	2		30
Dibromomethane	81		84		70-130	4		30
Styrene	99		99		70-130	0		30
Dichlorodifluoromethane	56		56		30-146	0		30
Acetone	89		90		54-140	1		30
Carbon disulfide	92		91		59-130	1		30
2-Butanone	105		97		70-130	8		30
Vinyl acetate	83		87		70-130	5		30
4-Methyl-2-pentanone	128		129		70-130	1		30
1,2,3-Trichloropropane	78		82		68-130	5		30
2-Hexanone	110		112		70-130	2		30
Bromochloromethane	92		94		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 52,55 Batch: WG1797141-3 WG1797141-4								
2,2-Dichloropropane	93		94		70-130	1		30
1,2-Dibromoethane	93		96		70-130	3		30
1,3-Dichloropropane	89		90		69-130	1		30
1,1,1,2-Tetrachloroethane	98		98		70-130	0		30
Bromobenzene	94		97		70-130	3		30
n-Butylbenzene	87		89		70-130	2		30
sec-Butylbenzene	96		101		70-130	5		30
tert-Butylbenzene	96		100		70-130	4		30
o-Chlorotoluene	92		95		70-130	3		30
p-Chlorotoluene	89		93		70-130	4		30
1,2-Dibromo-3-chloropropane	86		89		68-130	3		30
Hexachlorobutadiene	95		98		67-130	3		30
Isopropylbenzene	99		102		70-130	3		30
p-Isopropyltoluene	95		98		70-130	3		30
Naphthalene	86		91		70-130	6		30
Acrylonitrile	126		124		70-130	2		30
n-Propylbenzene	93		97		70-130	4		30
1,2,3-Trichlorobenzene	87		91		70-130	4		30
1,2,4-Trichlorobenzene	88		90		70-130	2		30
1,3,5-Trimethylbenzene	95		98		70-130	3		30
1,2,4-Trimethylbenzene	95		98		70-130	3		30
1,4-Dioxane	94		94		65-136	0		30
p-Diethylbenzene	94		97		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 52,55 Batch: WG1797141-3 WG1797141-4								
p-Ethyltoluene	99		102		70-130	3		30
1,2,4,5-Tetramethylbenzene	97		99		70-130	2		30
Ethyl ether	89		94		67-130	5		30
trans-1,4-Dichloro-2-butene	119		116		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		91		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	100		103		70-130
Dibromofluoromethane	94		94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26-27,42 Batch: WG1797169-3 WG1797169-4								
Methylene chloride	92		86		70-130	7		30
1,1-Dichloroethane	103		95		70-130	8		30
Chloroform	95		90		70-130	5		30
Carbon tetrachloride	109		101		70-130	8		30
1,2-Dichloropropane	92		87		70-130	6		30
Dibromochloromethane	83		80		70-130	4		30
1,1,2-Trichloroethane	81		78		70-130	4		30
Tetrachloroethene	81		72		70-130	12		30
Chlorobenzene	88		81		70-130	8		30
Trichlorofluoromethane	90		79		70-139	13		30
1,2-Dichloroethane	107		104		70-130	3		30
1,1,1-Trichloroethane	114		102		70-130	11		30
Bromodichloromethane	107		101		70-130	6		30
trans-1,3-Dichloropropene	84		80		70-130	5		30
cis-1,3-Dichloropropene	98		93		70-130	5		30
1,1-Dichloropropene	87		77		70-130	12		30
Bromoform	82		78		70-130	5		30
1,1,2,2-Tetrachloroethane	**66**	Q	**62**	Q	70-130	6		30
Benzene	95		88		70-130	8		30
Toluene	82		75		70-130	9		30
Ethylbenzene	88		80		70-130	10		30
Chloromethane	97		86		52-130	12		30
Bromomethane	110		99		57-147	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26-27,42 Batch: WG1797169-3 WG1797169-4								
Vinyl chloride	108		90		67-130	18		30
Chloroethane	107		96		50-151	11		30
1,1-Dichloroethene	107		88		65-135	19		30
trans-1,2-Dichloroethene	92		82		70-130	11		30
Trichloroethene	89		84		70-130	6		30
1,2-Dichlorobenzene	83		76		70-130	9		30
1,3-Dichlorobenzene	82		75		70-130	9		30
1,4-Dichlorobenzene	82		75		70-130	9		30
Methyl tert butyl ether	97		93		66-130	4		30
p/m-Xylene	94		86		70-130	9		30
o-Xylene	93		86		70-130	8		30
cis-1,2-Dichloroethene	91		86		70-130	6		30
Dibromomethane	100		97		70-130	3		30
Styrene	92		86		70-130	7		30
Dichlorodifluoromethane	54		46		30-146	16		30
Acetone	115		115		54-140	0		30
Carbon disulfide	104		90		59-130	14		30
2-Butanone	101		95		70-130	6		30
Vinyl acetate	91		84		70-130	8		30
4-Methyl-2-pentanone	83		78		70-130	6		30
1,2,3-Trichloropropane	75		72		68-130	4		30
2-Hexanone	88		85		70-130	3		30
Bromochloromethane	102		98		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26-27,42 Batch: WG1797169-3 WG1797169-4								
2,2-Dichloropropane	104		93		70-130	11		30
1,2-Dibromoethane	76		73		70-130	4		30
1,3-Dichloropropane	79		75		69-130	5		30
1,1,1,2-Tetrachloroethane	88		82		70-130	7		30
Bromobenzene	80		73		70-130	9		30
n-Butylbenzene	84		74		70-130	13		30
sec-Butylbenzene	81		71		70-130	13		30
tert-Butylbenzene	81		72		70-130	12		30
o-Chlorotoluene	81		74		70-130	9		30
p-Chlorotoluene	81		74		70-130	9		30
1,2-Dibromo-3-chloropropane	79		76		68-130	4		30
Hexachlorobutadiene	89		77		67-130	14		30
Isopropylbenzene	79		70		70-130	12		30
p-Isopropyltoluene	84		74		70-130	13		30
Naphthalene	74		**69**	Q	70-130	7		30
Acrylonitrile	102		103		70-130	1		30
n-Propylbenzene	81		72		70-130	12		30
1,2,3-Trichlorobenzene	77		71		70-130	8		30
1,2,4-Trichlorobenzene	78		72		70-130	8		30
1,3,5-Trimethylbenzene	88		78		70-130	12		30
1,2,4-Trimethylbenzene	85		77		70-130	10		30
1,4-Dioxane	104		104		65-136	0		30
p-Diethylbenzene	86		76		70-130	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26-27,42 Batch: WG1797169-3 WG1797169-4								
p-Ethyltoluene	84		75		70-130	11		30
1,2,4,5-Tetramethylbenzene	**67**	Q	**62**	Q	70-130	8		30
Ethyl ether	101		90		67-130	12		30
trans-1,4-Dichloro-2-butene	86		82		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		112		70-130
Toluene-d8	94		93		70-130
4-Bromofluorobenzene	94		93		70-130
Dibromofluoromethane	106		105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 26 Batch: WG1797173-3 WG1797173-4								
Methylene chloride	92		86		70-130	7		30
1,1-Dichloroethane	103		95		70-130	8		30
Chloroform	95		90		70-130	5		30
Carbon tetrachloride	109		101		70-130	8		30
1,2-Dichloropropane	92		87		70-130	6		30
Dibromochloromethane	83		80		70-130	4		30
1,1,2-Trichloroethane	81		78		70-130	4		30
Tetrachloroethene	81		72		70-130	12		30
Chlorobenzene	88		81		70-130	8		30
Trichlorofluoromethane	90		79		70-139	13		30
1,2-Dichloroethane	107		104		70-130	3		30
1,1,1-Trichloroethane	114		102		70-130	11		30
Bromodichloromethane	107		101		70-130	6		30
trans-1,3-Dichloropropene	84		80		70-130	5		30
cis-1,3-Dichloropropene	98		93		70-130	5		30
1,1-Dichloropropene	87		77		70-130	12		30
Bromoform	82		78		70-130	5		30
1,1,2,2-Tetrachloroethane	**66**	Q	**62**	Q	70-130	6		30
Benzene	95		88		70-130	8		30
Toluene	82		75		70-130	9		30
Ethylbenzene	88		80		70-130	10		30
Chloromethane	97		86		52-130	12		30
Bromomethane	110		99		57-147	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 26 Batch: WG1797173-3 WG1797173-4								
Vinyl chloride	108		90		67-130	18		30
Chloroethane	107		96		50-151	11		30
1,1-Dichloroethene	107		88		65-135	19		30
trans-1,2-Dichloroethene	92		82		70-130	11		30
Trichloroethene	89		84		70-130	6		30
1,2-Dichlorobenzene	83		76		70-130	9		30
1,3-Dichlorobenzene	82		75		70-130	9		30
1,4-Dichlorobenzene	82		75		70-130	9		30
Methyl tert butyl ether	97		93		66-130	4		30
p/m-Xylene	94		86		70-130	9		30
o-Xylene	93		86		70-130	8		30
cis-1,2-Dichloroethene	91		86		70-130	6		30
Dibromomethane	100		97		70-130	3		30
Styrene	92		86		70-130	7		30
Dichlorodifluoromethane	54		46		30-146	16		30
Acetone	115		115		54-140	0		30
Carbon disulfide	104		90		59-130	14		30
2-Butanone	101		95		70-130	6		30
Vinyl acetate	91		84		70-130	8		30
4-Methyl-2-pentanone	83		78		70-130	6		30
1,2,3-Trichloropropane	75		72		68-130	4		30
2-Hexanone	88		85		70-130	3		30
Bromochloromethane	102		98		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 26 Batch: WG1797173-3 WG1797173-4								
2,2-Dichloropropane	104		93		70-130	11		30
1,2-Dibromoethane	76		73		70-130	4		30
1,3-Dichloropropane	79		75		69-130	5		30
1,1,1,2-Tetrachloroethane	88		82		70-130	7		30
Bromobenzene	80		73		70-130	9		30
n-Butylbenzene	84		74		70-130	13		30
sec-Butylbenzene	81		71		70-130	13		30
tert-Butylbenzene	81		72		70-130	12		30
o-Chlorotoluene	81		74		70-130	9		30
p-Chlorotoluene	81		74		70-130	9		30
1,2-Dibromo-3-chloropropane	79		76		68-130	4		30
Hexachlorobutadiene	89		77		67-130	14		30
Isopropylbenzene	79		70		70-130	12		30
p-Isopropyltoluene	84		74		70-130	13		30
Naphthalene	74		**69**	Q	70-130	7		30
Acrylonitrile	102		103		70-130	1		30
n-Propylbenzene	81		72		70-130	12		30
1,2,3-Trichlorobenzene	77		71		70-130	8		30
1,2,4-Trichlorobenzene	78		72		70-130	8		30
1,3,5-Trimethylbenzene	88		78		70-130	12		30
1,2,4-Trimethylbenzene	85		77		70-130	10		30
1,4-Dioxane	104		104		65-136	0		30
p-Diethylbenzene	86		76		70-130	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 26 Batch: WG1797173-3 WG1797173-4								
p-Ethyltoluene	84		75		70-130	11		30
1,2,4,5-Tetramethylbenzene	**67**	Q	**62**	Q	70-130	8		30
Ethyl ether	101		90		67-130	12		30
trans-1,4-Dichloro-2-butene	86		82		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		112		70-130
Toluene-d8	94		93		70-130
4-Bromofluorobenzene	94		93		70-130
Dibromofluoromethane	106		105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27,33-34,41-42,46 Batch: WG1797202-3 WG1797202-4								
Methylene chloride	92		87		70-130	6		30
1,1-Dichloroethane	101		100		70-130	1		30
Chloroform	95		96		70-130	1		30
Carbon tetrachloride	105		105		70-130	0		30
1,2-Dichloropropane	92		93		70-130	1		30
Dibromochloromethane	86		83		70-130	4		30
1,1,2-Trichloroethane	85		81		70-130	5		30
Tetrachloroethene	82		77		70-130	6		30
Chlorobenzene	91		86		70-130	6		30
Trichlorofluoromethane	90		87		70-139	3		30
1,2-Dichloroethane	106		107		70-130	1		30
1,1,1-Trichloroethane	108		109		70-130	1		30
Bromodichloromethane	106		109		70-130	3		30
trans-1,3-Dichloropropene	87		82		70-130	6		30
cis-1,3-Dichloropropene	98		99		70-130	1		30
1,1-Dichloropropene	81		82		70-130	1		30
Bromoform	85		78		70-130	9		30
1,1,2,2-Tetrachloroethane	70		**63**	Q	70-130	11		30
Benzene	94		96		70-130	2		30
Toluene	84		80		70-130	5		30
Ethylbenzene	90		85		70-130	6		30
Chloromethane	116		122		52-130	5		30
Bromomethane	115		112		57-147	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27,33-34,41-42,46 Batch: WG1797202-3 WG1797202-4								
Vinyl chloride	118		118		67-130	0		30
Chloroethane	111		106		50-151	5		30
1,1-Dichloroethene	93		99		65-135	6		30
trans-1,2-Dichloroethene	86		88		70-130	2		30
Trichloroethene	87		88		70-130	1		30
1,2-Dichlorobenzene	88		81		70-130	8		30
1,3-Dichlorobenzene	88		79		70-130	11		30
1,4-Dichlorobenzene	89		80		70-130	11		30
Methyl tert butyl ether	92		97		66-130	5		30
p/m-Xylene	98		92		70-130	6		30
o-Xylene	98		93		70-130	5		30
cis-1,2-Dichloroethene	90		91		70-130	1		30
Dibromomethane	100		101		70-130	1		30
Styrene	97		92		70-130	5		30
Dichlorodifluoromethane	90		100		30-146	11		30
Acetone	117		116		54-140	1		30
Carbon disulfide	104		105		59-130	1		30
2-Butanone	94		93		70-130	1		30
Vinyl acetate	98		97		70-130	1		30
4-Methyl-2-pentanone	81		79		70-130	3		30
1,2,3-Trichloropropane	76		69		68-130	10		30
2-Hexanone	85		81		70-130	5		30
Bromochloromethane	104		103		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27,33-34,41-42,46 Batch: WG1797202-3 WG1797202-4								
2,2-Dichloropropane	100		102		70-130	2		30
1,2-Dibromoethane	77		74		70-130	4		30
1,3-Dichloropropane	80		77		69-130	4		30
1,1,1,2-Tetrachloroethane	91		87		70-130	4		30
Bromobenzene	85		76		70-130	11		30
n-Butylbenzene	86		78		70-130	10		30
sec-Butylbenzene	83		75		70-130	10		30
tert-Butylbenzene	83		75		70-130	10		30
o-Chlorotoluene	84		77		70-130	9		30
p-Chlorotoluene	85		77		70-130	10		30
1,2-Dibromo-3-chloropropane	83		76		68-130	9		30
Hexachlorobutadiene	94		83		67-130	12		30
Isopropylbenzene	80		72		70-130	11		30
p-Isopropyltoluene	87		78		70-130	11		30
Naphthalene	79		71		70-130	11		30
Acrylonitrile	105		106		70-130	1		30
n-Propylbenzene	83		75		70-130	10		30
1,2,3-Trichlorobenzene	86		77		70-130	11		30
1,2,4-Trichlorobenzene	87		78		70-130	11		30
1,3,5-Trimethylbenzene	90		82		70-130	9		30
1,2,4-Trimethylbenzene	89		80		70-130	11		30
1,4-Dioxane	104		108		65-136	4		30
p-Diethylbenzene	90		80		70-130	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 27,33-34,41-42,46 Batch: WG1797202-3 WG1797202-4								
p-Ethyltoluene	87		79		70-130	10		30
1,2,4,5-Tetramethylbenzene	72		**66**	Q	70-130	9		30
Ethyl ether	93		94		67-130	1		30
trans-1,4-Dichloro-2-butene	86		79		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		108		70-130
Toluene-d8	96		92		70-130
4-Bromofluorobenzene	92		89		70-130
Dibromofluoromethane	104		108		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26,28,32,35-36,40,45,47 Batch: WG1797206-3 WG1797206-4								
Methylene chloride	92		87		70-130	6		30
1,1-Dichloroethane	101		100		70-130	1		30
Chloroform	95		96		70-130	1		30
Carbon tetrachloride	105		105		70-130	0		30
1,2-Dichloropropane	92		93		70-130	1		30
Dibromochloromethane	86		83		70-130	4		30
1,1,2-Trichloroethane	85		81		70-130	5		30
Tetrachloroethene	82		77		70-130	6		30
Chlorobenzene	91		86		70-130	6		30
Trichlorofluoromethane	90		87		70-139	3		30
1,2-Dichloroethane	106		107		70-130	1		30
1,1,1-Trichloroethane	108		109		70-130	1		30
Bromodichloromethane	106		109		70-130	3		30
trans-1,3-Dichloropropene	87		82		70-130	6		30
cis-1,3-Dichloropropene	98		99		70-130	1		30
1,1-Dichloropropene	81		82		70-130	1		30
Bromoform	85		78		70-130	9		30
1,1,2,2-Tetrachloroethane	70		**63**	Q	70-130	11		30
Benzene	94		96		70-130	2		30
Toluene	84		80		70-130	5		30
Ethylbenzene	90		85		70-130	6		30
Chloromethane	116		122		52-130	5		30
Bromomethane	115		112		57-147	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26,28,32,35-36,40,45,47 Batch: WG1797206-3 WG1797206-4								
Vinyl chloride	118		118		67-130	0		30
Chloroethane	111		106		50-151	5		30
1,1-Dichloroethene	93		99		65-135	6		30
trans-1,2-Dichloroethene	86		88		70-130	2		30
Trichloroethene	87		88		70-130	1		30
1,2-Dichlorobenzene	88		81		70-130	8		30
1,3-Dichlorobenzene	88		79		70-130	11		30
1,4-Dichlorobenzene	89		80		70-130	11		30
Methyl tert butyl ether	92		97		66-130	5		30
p/m-Xylene	98		92		70-130	6		30
o-Xylene	98		93		70-130	5		30
cis-1,2-Dichloroethene	90		91		70-130	1		30
Dibromomethane	100		101		70-130	1		30
Styrene	97		92		70-130	5		30
Dichlorodifluoromethane	90		100		30-146	11		30
Acetone	117		116		54-140	1		30
Carbon disulfide	104		105		59-130	1		30
2-Butanone	94		93		70-130	1		30
Vinyl acetate	98		97		70-130	1		30
4-Methyl-2-pentanone	81		79		70-130	3		30
1,2,3-Trichloropropane	76		69		68-130	10		30
2-Hexanone	85		81		70-130	5		30
Bromochloromethane	104		103		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26,28,32,35-36,40,45,47 Batch: WG1797206-3 WG1797206-4								
2,2-Dichloropropane	100		102		70-130	2		30
1,2-Dibromoethane	77		74		70-130	4		30
1,3-Dichloropropane	80		77		69-130	4		30
1,1,1,2-Tetrachloroethane	91		87		70-130	4		30
Bromobenzene	85		76		70-130	11		30
n-Butylbenzene	86		78		70-130	10		30
sec-Butylbenzene	83		75		70-130	10		30
tert-Butylbenzene	83		75		70-130	10		30
o-Chlorotoluene	84		77		70-130	9		30
p-Chlorotoluene	85		77		70-130	10		30
1,2-Dibromo-3-chloropropane	83		76		68-130	9		30
Hexachlorobutadiene	94		83		67-130	12		30
Isopropylbenzene	80		72		70-130	11		30
p-Isopropyltoluene	87		78		70-130	11		30
Naphthalene	79		71		70-130	11		30
Acrylonitrile	105		106		70-130	1		30
n-Propylbenzene	83		75		70-130	10		30
1,2,3-Trichlorobenzene	86		77		70-130	11		30
1,2,4-Trichlorobenzene	87		78		70-130	11		30
1,3,5-Trimethylbenzene	90		82		70-130	9		30
1,2,4-Trimethylbenzene	89		80		70-130	11		30
1,4-Dioxane	104		108		65-136	4		30
p-Diethylbenzene	90		80		70-130	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26,28,32,35-36,40,45,47 Batch: WG1797206-3 WG1797206-4								
p-Ethyltoluene	87		79		70-130	10		30
1,2,4,5-Tetramethylbenzene	72		**66**	Q	70-130	9		30
Ethyl ether	93		94		67-130	1		30
trans-1,4-Dichloro-2-butene	86		79		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		108		70-130
Toluene-d8	96		92		70-130
4-Bromofluorobenzene	92		89		70-130
Dibromofluoromethane	104		108		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 51-52 Batch: WG1797314-3 WG1797314-4								
Methylene chloride	104		101		70-130	3		30
1,1-Dichloroethane	113		116		70-130	3		30
Chloroform	101		113		70-130	11		30
Carbon tetrachloride	124		127		70-130	2		30
1,2-Dichloropropane	99		102		70-130	3		30
Dibromochloromethane	85		93		70-130	9		30
1,1,2-Trichloroethane	85		91		70-130	7		30
Tetrachloroethene	93		91		70-130	2		30
Chlorobenzene	98		99		70-130	1		30
Trichlorofluoromethane	112		109		70-139	3		30
1,2-Dichloroethane	112		122		70-130	9		30
1,1,1-Trichloroethane	125		128		70-130	2		30
Bromodichloromethane	111		120		70-130	8		30
trans-1,3-Dichloropropene	87		94		70-130	8		30
cis-1,3-Dichloropropene	103		110		70-130	7		30
1,1-Dichloropropene	96		97		70-130	1		30
Bromoform	84		92		70-130	9		30
1,1,2,2-Tetrachloroethane	71		78		70-130	9		30
Benzene	107		108		70-130	1		30
Toluene	94		93		70-130	1		30
Ethylbenzene	100		100		70-130	0		30
Chloromethane	**166**	Q	**156**	Q	52-130	6		30
Bromomethane	139		139		57-147	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 51-52 Batch: WG1797314-3 WG1797314-4								
Vinyl chloride	**158**	Q	**153**	Q	67-130	3		30
Chloroethane	143		132		50-151	8		30
1,1-Dichloroethene	117		121		65-135	3		30
trans-1,2-Dichloroethene	98		104		70-130	6		30
Trichloroethene	95		100		70-130	5		30
1,2-Dichlorobenzene	92		94		70-130	2		30
1,3-Dichlorobenzene	94		94		70-130	0		30
1,4-Dichlorobenzene	93		94		70-130	1		30
Methyl tert butyl ether	110		125		66-130	13		30
p/m-Xylene	108		107		70-130	1		30
o-Xylene	106		106		70-130	0		30
cis-1,2-Dichloroethene	100		103		70-130	3		30
Dibromomethane	102		112		70-130	9		30
Styrene	102		105		70-130	3		30
Dichlorodifluoromethane	**172**	Q	**148**	Q	30-146	15		30
Acetone	116		133		54-140	14		30
Carbon disulfide	130		127		59-130	2		30
2-Butanone	100		116		70-130	15		30
Vinyl acetate	94		103		70-130	9		30
4-Methyl-2-pentanone	82		95		70-130	15		30
1,2,3-Trichloropropane	78		84		68-130	7		30
2-Hexanone	86		99		70-130	14		30
Bromochloromethane	108		112		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 51-52 Batch: WG1797314-3 WG1797314-4								
2,2-Dichloropropane	119		119		70-130	0		30
1,2-Dibromoethane	78		84		70-130	7		30
1,3-Dichloropropane	81		88		69-130	8		30
1,1,1,2-Tetrachloroethane	92		96		70-130	4		30
Bromobenzene	87		90		70-130	3		30
n-Butylbenzene	101		98		70-130	3		30
sec-Butylbenzene	96		94		70-130	2		30
tert-Butylbenzene	96		93		70-130	3		30
o-Chlorotoluene	93		93		70-130	0		30
p-Chlorotoluene	94		93		70-130	1		30
1,2-Dibromo-3-chloropropane	78		89		68-130	13		30
Hexachlorobutadiene	106		105		67-130	1		30
Isopropylbenzene	93		90		70-130	3		30
p-Isopropyltoluene	100		97		70-130	3		30
Naphthalene	77		84		70-130	9		30
Acrylonitrile	106		118		70-130	11		30
n-Propylbenzene	96		93		70-130	3		30
1,2,3-Trichlorobenzene	82		88		70-130	7		30
1,2,4-Trichlorobenzene	85		91		70-130	7		30
1,3,5-Trimethylbenzene	101		100		70-130	1		30
1,2,4-Trimethylbenzene	97		98		70-130	1		30
1,4-Dioxane	97		107		65-136	10		30
p-Diethylbenzene	101		99		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 51-52 Batch: WG1797314-3 WG1797314-4								
p-Ethyltoluene	98		96		70-130	2		30
1,2,4,5-Tetramethylbenzene	70		77		70-130	10		30
Ethyl ether	110		123		67-130	11		30
trans-1,4-Dichloro-2-butene	88		97		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		110		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	92		94		70-130
Dibromofluoromethane	100		106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 31,44,49,58 Batch: WG1799615-3 WG1799615-4								
Methylene chloride	83		83		70-130	0		30
1,1-Dichloroethane	97		96		70-130	1		30
Chloroform	88		88		70-130	0		30
Carbon tetrachloride	79		79		70-130	0		30
1,2-Dichloropropane	94		96		70-130	2		30
Dibromochloromethane	90		90		70-130	0		30
1,1,2-Trichloroethane	94		98		70-130	4		30
Tetrachloroethene	92		91		70-130	1		30
Chlorobenzene	96		95		70-130	1		30
Trichlorofluoromethane	85		82		70-139	4		30
1,2-Dichloroethane	88		87		70-130	1		30
1,1,1-Trichloroethane	89		88		70-130	1		30
Bromodichloromethane	86		89		70-130	3		30
trans-1,3-Dichloropropene	89		94		70-130	5		30
cis-1,3-Dichloropropene	88		88		70-130	0		30
1,1-Dichloropropene	97		97		70-130	0		30
Bromoform	84		82		70-130	2		30
1,1,2,2-Tetrachloroethane	103		99		70-130	4		30
Benzene	92		92		70-130	0		30
Toluene	94		99		70-130	5		30
Ethylbenzene	102		102		70-130	0		30
Chloromethane	106		107		52-130	1		30
Bromomethane	92		90		57-147	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 31,44,49,58 Batch: WG1799615-3 WG1799615-4								
Vinyl chloride	99		99		67-130	0		30
Chloroethane	102		99		50-151	3		30
1,1-Dichloroethene	89		90		65-135	1		30
trans-1,2-Dichloroethene	89		89		70-130	0		30
Trichloroethene	91		97		70-130	6		30
1,2-Dichlorobenzene	96		96		70-130	0		30
1,3-Dichlorobenzene	97		97		70-130	0		30
1,4-Dichlorobenzene	96		96		70-130	0		30
Methyl tert butyl ether	91		92		66-130	1		30
p/m-Xylene	98		98		70-130	0		30
o-Xylene	98		98		70-130	0		30
cis-1,2-Dichloroethene	89		86		70-130	3		30
Dibromomethane	82		84		70-130	2		30
Styrene	98		98		70-130	0		30
Dichlorodifluoromethane	94		95		30-146	1		30
Acetone	90		89		54-140	1		30
Carbon disulfide	84		84		59-130	0		30
2-Butanone	88		91		70-130	3		30
Vinyl acetate	76		**60**	Q	70-130	24		30
4-Methyl-2-pentanone	96		101		70-130	5		30
1,2,3-Trichloropropane	97		98		68-130	1		30
2-Hexanone	101		106		70-130	5		30
Bromochloromethane	83		82		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 31,44,49,58 Batch: WG1799615-3 WG1799615-4								
2,2-Dichloropropane	82		82		70-130	0		30
1,2-Dibromoethane	93		93		70-130	0		30
1,3-Dichloropropane	96		96		69-130	0		30
1,1,1,2-Tetrachloroethane	93		93		70-130	0		30
Bromobenzene	94		94		70-130	0		30
n-Butylbenzene	109		108		70-130	1		30
sec-Butylbenzene	109		109		70-130	0		30
tert-Butylbenzene	103		104		70-130	1		30
o-Chlorotoluene	105		105		70-130	0		30
p-Chlorotoluene	106		106		70-130	0		30
1,2-Dibromo-3-chloropropane	77		82		68-130	6		30
Hexachlorobutadiene	92		100		67-130	8		30
Isopropylbenzene	110		106		70-130	4		30
p-Isopropyltoluene	105		105		70-130	0		30
Naphthalene	95		100		70-130	5		30
Acrylonitrile	98		95		70-130	3		30
n-Propylbenzene	110		110		70-130	0		30
1,2,3-Trichlorobenzene	81		86		70-130	6		30
1,2,4-Trichlorobenzene	96		101		70-130	5		30
1,3,5-Trimethylbenzene	106		106		70-130	0		30
1,2,4-Trimethylbenzene	106		106		70-130	0		30
1,4-Dioxane	78		79		65-136	1		30
p-Diethylbenzene	106		106		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 31,44,49,58 Batch: WG1799615-3 WG1799615-4								
p-Ethyltoluene	108		108		70-130	0		30
1,2,4,5-Tetramethylbenzene	106		112		70-130	6		30
Ethyl ether	94		95		67-130	1		30
trans-1,4-Dichloro-2-butene	109		108		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		91		70-130
Toluene-d8	100		104		70-130
4-Bromofluorobenzene	111		111		70-130
Dibromofluoromethane	88		87		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29-30 Batch: WG1799618-3 WG1799618-4								
Methylene chloride	83		83		70-130	0		30
1,1-Dichloroethane	97		96		70-130	1		30
Chloroform	88		88		70-130	0		30
Carbon tetrachloride	79		79		70-130	0		30
1,2-Dichloropropane	94		96		70-130	2		30
Dibromochloromethane	90		90		70-130	0		30
1,1,2-Trichloroethane	94		98		70-130	4		30
Tetrachloroethene	92		91		70-130	1		30
Chlorobenzene	96		95		70-130	1		30
Trichlorofluoromethane	85		82		70-139	4		30
1,2-Dichloroethane	88		87		70-130	1		30
1,1,1-Trichloroethane	89		88		70-130	1		30
Bromodichloromethane	86		89		70-130	3		30
trans-1,3-Dichloropropene	89		94		70-130	5		30
cis-1,3-Dichloropropene	88		88		70-130	0		30
1,1-Dichloropropene	97		97		70-130	0		30
Bromoform	84		82		70-130	2		30
1,1,2,2-Tetrachloroethane	103		99		70-130	4		30
Benzene	92		92		70-130	0		30
Toluene	94		99		70-130	5		30
Ethylbenzene	102		102		70-130	0		30
Chloromethane	106		107		52-130	1		30
Bromomethane	92		90		57-147	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29-30 Batch: WG1799618-3 WG1799618-4								
Vinyl chloride	99		99		67-130	0		30
Chloroethane	102		99		50-151	3		30
1,1-Dichloroethene	89		90		65-135	1		30
trans-1,2-Dichloroethene	89		89		70-130	0		30
Trichloroethene	91		97		70-130	6		30
1,2-Dichlorobenzene	96		96		70-130	0		30
1,3-Dichlorobenzene	97		97		70-130	0		30
1,4-Dichlorobenzene	96		96		70-130	0		30
Methyl tert butyl ether	91		92		66-130	1		30
p/m-Xylene	98		98		70-130	0		30
o-Xylene	98		98		70-130	0		30
cis-1,2-Dichloroethene	89		86		70-130	3		30
Dibromomethane	82		84		70-130	2		30
Styrene	98		98		70-130	0		30
Dichlorodifluoromethane	94		95		30-146	1		30
Acetone	90		89		54-140	1		30
Carbon disulfide	84		84		59-130	0		30
2-Butanone	88		91		70-130	3		30
Vinyl acetate	76		**60**	Q	70-130	24		30
4-Methyl-2-pentanone	96		101		70-130	5		30
1,2,3-Trichloropropane	97		98		68-130	1		30
2-Hexanone	101		106		70-130	5		30
Bromochloromethane	83		82		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29-30 Batch: WG1799618-3 WG1799618-4								
2,2-Dichloropropane	82		82		70-130	0		30
1,2-Dibromoethane	93		93		70-130	0		30
1,3-Dichloropropane	96		96		69-130	0		30
1,1,1,2-Tetrachloroethane	93		93		70-130	0		30
Bromobenzene	94		94		70-130	0		30
n-Butylbenzene	109		108		70-130	1		30
sec-Butylbenzene	109		109		70-130	0		30
tert-Butylbenzene	103		104		70-130	1		30
o-Chlorotoluene	105		105		70-130	0		30
p-Chlorotoluene	106		106		70-130	0		30
1,2-Dibromo-3-chloropropane	77		82		68-130	6		30
Hexachlorobutadiene	92		100		67-130	8		30
Isopropylbenzene	110		106		70-130	4		30
p-Isopropyltoluene	105		105		70-130	0		30
Naphthalene	95		100		70-130	5		30
Acrylonitrile	98		95		70-130	3		30
n-Propylbenzene	110		110		70-130	0		30
1,2,3-Trichlorobenzene	81		86		70-130	6		30
1,2,4-Trichlorobenzene	96		101		70-130	5		30
1,3,5-Trimethylbenzene	106		106		70-130	0		30
1,2,4-Trimethylbenzene	106		106		70-130	0		30
1,4-Dioxane	78		79		65-136	1		30
p-Diethylbenzene	106		106		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29-30 Batch: WG1799618-3 WG1799618-4								
p-Ethyltoluene	108		108		70-130	0		30
1,2,4,5-Tetramethylbenzene	106		112		70-130	6		30
Ethyl ether	94		95		67-130	1		30
trans-1,4-Dichloro-2-butene	109		108		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		91		70-130
Toluene-d8	100		104		70-130
4-Bromofluorobenzene	111		111		70-130
Dibromofluoromethane	88		87		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 50,59 Batch: WG1799631-3 WG1799631-4								
Methylene chloride	92		90		70-130	2		30
1,1-Dichloroethane	100		97		70-130	3		30
Chloroform	95		94		70-130	1		30
Carbon tetrachloride	104		102		70-130	2		30
1,2-Dichloropropane	94		95		70-130	1		30
Dibromochloromethane	100		101		70-130	1		30
1,1,2-Trichloroethane	105		108		70-130	3		30
Tetrachloroethene	106		106		70-130	0		30
Chlorobenzene	100		102		70-130	2		30
Trichlorofluoromethane	108		104		70-139	4		30
1,2-Dichloroethane	96		96		70-130	0		30
1,1,1-Trichloroethane	95		95		70-130	0		30
Bromodichloromethane	96		97		70-130	1		30
trans-1,3-Dichloropropene	108		112		70-130	4		30
cis-1,3-Dichloropropene	99		102		70-130	3		30
1,1-Dichloropropene	102		100		70-130	2		30
Bromoform	87		90		70-130	3		30
1,1,2,2-Tetrachloroethane	107		109		70-130	2		30
Benzene	97		96		70-130	1		30
Toluene	99		103		70-130	4		30
Ethylbenzene	100		103		70-130	3		30
Chloromethane	111		104		52-130	7		30
Bromomethane	98		99		57-147	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 50,59 Batch: WG1799631-3 WG1799631-4								
Vinyl chloride	113		108		67-130	5		30
Chloroethane	109		103		50-151	6		30
1,1-Dichloroethene	98		95		65-135	3		30
trans-1,2-Dichloroethene	97		94		70-130	3		30
Trichloroethene	95		93		70-130	2		30
1,2-Dichlorobenzene	102		102		70-130	0		30
1,3-Dichlorobenzene	107		107		70-130	0		30
1,4-Dichlorobenzene	106		107		70-130	1		30
Methyl tert butyl ether	102		102		66-130	0		30
p/m-Xylene	99		103		70-130	4		30
o-Xylene	100		103		70-130	3		30
cis-1,2-Dichloroethene	93		90		70-130	3		30
Dibromomethane	95		94		70-130	1		30
Styrene	103		106		70-130	3		30
Dichlorodifluoromethane	107		100		30-146	7		30
Acetone	102		100		54-140	2		30
Carbon disulfide	102		96		59-130	6		30
2-Butanone	95		90		70-130	5		30
Vinyl acetate	104		110		70-130	6		30
4-Methyl-2-pentanone	98		100		70-130	2		30
1,2,3-Trichloropropane	102		102		68-130	0		30
2-Hexanone	98		98		70-130	0		30
Bromochloromethane	89		89		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 50,59 Batch: WG1799631-3 WG1799631-4								
2,2-Dichloropropane	99		96		70-130	3		30
1,2-Dibromoethane	99		104		70-130	5		30
1,3-Dichloropropane	102		106		69-130	4		30
1,1,1,2-Tetrachloroethane	102		106		70-130	4		30
Bromobenzene	101		100		70-130	1		30
n-Butylbenzene	121		121		70-130	0		30
sec-Butylbenzene	107		106		70-130	1		30
tert-Butylbenzene	100		101		70-130	1		30
o-Chlorotoluene	104		102		70-130	2		30
p-Chlorotoluene	105		105		70-130	0		30
1,2-Dibromo-3-chloropropane	88		88		68-130	0		30
Hexachlorobutadiene	107		105		67-130	2		30
Isopropylbenzene	98		101		70-130	3		30
p-Isopropyltoluene	105		106		70-130	1		30
Naphthalene	96		96		70-130	0		30
Acrylonitrile	99		103		70-130	4		30
n-Propylbenzene	110		109		70-130	1		30
1,2,3-Trichlorobenzene	105		104		70-130	1		30
1,2,4-Trichlorobenzene	108		108		70-130	0		30
1,3,5-Trimethylbenzene	101		101		70-130	0		30
1,2,4-Trimethylbenzene	102		103		70-130	1		30
1,4-Dioxane	85		89		65-136	5		30
p-Diethylbenzene	107		109		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 50,59 Batch: WG1799631-3 WG1799631-4								
p-Ethyltoluene	104		103		70-130	1		30
1,2,4,5-Tetramethylbenzene	103		100		70-130	3		30
Ethyl ether	114		110		67-130	4		30
trans-1,4-Dichloro-2-butene	120		118		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	101		96		70-130
Dibromofluoromethane	94		92		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29 Batch: WG1799762-3 WG1799762-4								
Methylene chloride	92		90		70-130	2		30
1,1-Dichloroethane	100		97		70-130	3		30
Chloroform	95		94		70-130	1		30
Carbon tetrachloride	104		102		70-130	2		30
1,2-Dichloropropane	94		95		70-130	1		30
Dibromochloromethane	100		101		70-130	1		30
1,1,2-Trichloroethane	105		108		70-130	3		30
Tetrachloroethene	106		106		70-130	0		30
Chlorobenzene	100		102		70-130	2		30
Trichlorofluoromethane	108		104		70-139	4		30
1,2-Dichloroethane	96		96		70-130	0		30
1,1,1-Trichloroethane	95		95		70-130	0		30
Bromodichloromethane	96		97		70-130	1		30
trans-1,3-Dichloropropene	108		112		70-130	4		30
cis-1,3-Dichloropropene	99		102		70-130	3		30
1,1-Dichloropropene	102		100		70-130	2		30
Bromoform	87		90		70-130	3		30
1,1,2,2-Tetrachloroethane	107		109		70-130	2		30
Benzene	97		96		70-130	1		30
Toluene	99		103		70-130	4		30
Ethylbenzene	100		103		70-130	3		30
Chloromethane	111		104		52-130	7		30
Bromomethane	98		99		57-147	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29 Batch: WG1799762-3 WG1799762-4								
Vinyl chloride	113		108		67-130	5		30
Chloroethane	109		103		50-151	6		30
1,1-Dichloroethene	98		95		65-135	3		30
trans-1,2-Dichloroethene	97		94		70-130	3		30
Trichloroethene	95		93		70-130	2		30
1,2-Dichlorobenzene	102		102		70-130	0		30
1,3-Dichlorobenzene	107		107		70-130	0		30
1,4-Dichlorobenzene	106		107		70-130	1		30
Methyl tert butyl ether	102		102		66-130	0		30
p/m-Xylene	99		103		70-130	4		30
o-Xylene	100		103		70-130	3		30
cis-1,2-Dichloroethene	93		90		70-130	3		30
Dibromomethane	95		94		70-130	1		30
Styrene	103		106		70-130	3		30
Dichlorodifluoromethane	107		100		30-146	7		30
Acetone	102		100		54-140	2		30
Carbon disulfide	102		96		59-130	6		30
2-Butanone	95		90		70-130	5		30
Vinyl acetate	104		110		70-130	6		30
4-Methyl-2-pentanone	98		100		70-130	2		30
1,2,3-Trichloropropane	102		102		68-130	0		30
2-Hexanone	98		98		70-130	0		30
Bromochloromethane	89		89		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29 Batch: WG1799762-3 WG1799762-4								
2,2-Dichloropropane	99		96		70-130	3		30
1,2-Dibromoethane	99		104		70-130	5		30
1,3-Dichloropropane	102		106		69-130	4		30
1,1,1,2-Tetrachloroethane	102		106		70-130	4		30
Bromobenzene	101		100		70-130	1		30
n-Butylbenzene	121		121		70-130	0		30
sec-Butylbenzene	107		106		70-130	1		30
tert-Butylbenzene	100		101		70-130	1		30
o-Chlorotoluene	104		102		70-130	2		30
p-Chlorotoluene	105		105		70-130	0		30
1,2-Dibromo-3-chloropropane	88		88		68-130	0		30
Hexachlorobutadiene	107		105		67-130	2		30
Isopropylbenzene	98		101		70-130	3		30
p-Isopropyltoluene	105		106		70-130	1		30
Naphthalene	96		96		70-130	0		30
Acrylonitrile	99		103		70-130	4		30
n-Propylbenzene	110		109		70-130	1		30
1,2,3-Trichlorobenzene	105		104		70-130	1		30
1,2,4-Trichlorobenzene	108		108		70-130	0		30
1,3,5-Trimethylbenzene	101		101		70-130	0		30
1,2,4-Trimethylbenzene	102		103		70-130	1		30
1,4-Dioxane	85		89		65-136	5		30
p-Diethylbenzene	107		109		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 29 Batch: WG1799762-3 WG1799762-4								
p-Ethyltoluene	104		103		70-130	1		30
1,2,4,5-Tetramethylbenzene	103		100		70-130	3		30
Ethyl ether	114		110		67-130	4		30
trans-1,4-Dichloro-2-butene	120		118		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	101		97		70-130
Dibromofluoromethane	94		92		70-130

METALS

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-01
Client ID: 8B-1N-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 12:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3.79		mg/l	0.0100	0.00327	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Antimony, Total	0.06677		mg/l	0.00400	0.00042	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.02465		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Barium, Total	0.3991		mg/l	0.00050	0.00017	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Beryllium, Total	0.00024	J	mg/l	0.00050	0.00010	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Cadmium, Total	0.00058		mg/l	0.00020	0.00005	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Calcium, Total	600.		mg/l	0.500	0.197	5	06/26/23 22:00	06/29/23 16:54	EPA 3005A	1,6020B	EJF
Chromium, Total	0.1117		mg/l	0.00100	0.00017	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.00648		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Copper, Total	0.2196		mg/l	0.00100	0.00038	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Iron, Total	21.4		mg/l	0.0500	0.0191	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Lead, Total	0.4225		mg/l	0.00100	0.00034	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Magnesium, Total	18.8		mg/l	0.0700	0.0242	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Manganese, Total	0.8286		mg/l	0.00100	0.00044	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Mercury, Total	0.1222		mg/l	0.00400	0.00183	20	06/27/23 00:15	06/28/23 17:09	EPA 7470A	1,7470A	DMB
Nickel, Total	0.09396		mg/l	0.00200	0.00055	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Potassium, Total	16.3		mg/l	0.100	0.0309	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Selenium, Total	0.00400	J	mg/l	0.00500	0.00173	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Silver, Total	0.00146		mg/l	0.00040	0.00016	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Sodium, Total	51.2		mg/l	0.100	0.0293	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Thallium, Total	0.00020	J	mg/l	0.00100	0.00014	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Vanadium, Total	0.01825		mg/l	0.00500	0.00157	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Zinc, Total	0.4463		mg/l	0.01000	0.00341	1	06/26/23 22:00	06/29/23 16:28	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0173		mg/l	0.0100	0.00327	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.04901		mg/l	0.00400	0.00042	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.01360		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.1843		mg/l	0.00050	0.00017	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-01
Client ID: 8B-1N-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/20/23 12:00
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	450.		mg/l	0.500	0.197	5	06/27/23 11:33	06/30/23 08:10	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.00577		mg/l	0.00100	0.00017	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00058		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00093	J	mg/l	0.00100	0.00038	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Iron, Dissolved	0.310		mg/l	0.0500	0.0191	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Lead, Dissolved	0.00091	J	mg/l	0.00100	0.00034	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	16.5		mg/l	0.0700	0.0242	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	0.5790		mg/l	0.00100	0.00044	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/27/23 13:02	06/28/23 16:36	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00737		mg/l	0.00200	0.00055	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	14.1		mg/l	0.100	0.0309	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	51.2		mg/l	0.100	0.0293	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	0.00157	J	mg/l	0.00500	0.00157	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	06/27/23 11:33	06/30/23 07:32	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-02
Client ID: 8B-1NN-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	37.0		mg/l	0.0500	0.0164	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Antimony, Total	0.2301		mg/l	0.02000	0.00214	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.1597		mg/l	0.00250	0.00082	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Barium, Total	1.727		mg/l	0.00250	0.00086	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Beryllium, Total	0.00287		mg/l	0.00250	0.00053	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Cadmium, Total	0.00397		mg/l	0.00100	0.00029	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Calcium, Total	571.		mg/l	0.500	0.197	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Chromium, Total	0.1440		mg/l	0.00500	0.00089	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Cobalt, Total	0.03714		mg/l	0.00250	0.00081	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Copper, Total	3.076		mg/l	0.00500	0.00192	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Iron, Total	164.		mg/l	0.250	0.0955	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Lead, Total	3.593		mg/l	0.00500	0.00171	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Magnesium, Total	29.8		mg/l	0.350	0.121	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Manganese, Total	2.815		mg/l	0.00500	0.00220	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Mercury, Total	3.283		mg/l	0.2000	0.09150	1000	07/10/23 12:00	07/11/23 18:49	EPA 245.1	1,7470A	DMB
Nickel, Total	0.1019		mg/l	0.01000	0.00278	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Potassium, Total	19.9		mg/l	0.500	0.154	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Selenium, Total	ND		mg/l	0.0250	0.00865	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00200	0.00081	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Sodium, Total	42.8		mg/l	0.500	0.146	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Thallium, Total	0.00231	J	mg/l	0.00500	0.00071	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Vanadium, Total	0.1307		mg/l	0.02500	0.00785	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Zinc, Total	1.831		mg/l	0.05000	0.01705	5	07/10/23 11:02	07/18/23 16:10	EPA 3005A	1,6020B	WKP
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.115		mg/l	0.0100	0.00327	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Antimony, Dissolved	0.1263		mg/l	0.00400	0.00042	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Arsenic, Dissolved	0.01061		mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Barium, Dissolved	0.1650		mg/l	0.00050	0.00017	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-02
Client ID: 8B-1NN-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 14:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Calcium, Dissolved	402.		mg/l	0.100	0.0394	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Chromium, Dissolved	0.00098	J	mg/l	0.00100	0.00017	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Cobalt, Dissolved	0.00044	J	mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Copper, Dissolved	0.00687		mg/l	0.00100	0.00038	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Iron, Dissolved	0.247		mg/l	0.0500	0.0191	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Lead, Dissolved	0.01050		mg/l	0.00100	0.00034	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Magnesium, Dissolved	13.4		mg/l	0.0700	0.0242	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Manganese, Dissolved	0.2902		mg/l	0.00100	0.00044	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Mercury, Dissolved	0.00065		mg/l	0.00020	0.00009	1	07/10/23 20:18	07/12/23 18:43	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.00355		mg/l	0.00200	0.00055	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Potassium, Dissolved	19.1		mg/l	0.100	0.0309	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Sodium, Dissolved	43.9		mg/l	0.100	0.0293	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Vanadium, Dissolved	0.00620		mg/l	0.00500	0.00157	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP
Zinc, Dissolved	0.00563	J	mg/l	0.01000	0.00341	1	07/10/23 22:12	07/18/23 17:45	EPA 3005A	1,6020B	WKP

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-03
Client ID: 8B-1E-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 13:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5.24		mg/l	0.0100	0.00327	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Antimony, Total	0.05390		mg/l	0.00400	0.00042	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.02858		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Barium, Total	0.4205		mg/l	0.00050	0.00017	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Beryllium, Total	0.00025	J	mg/l	0.00050	0.00010	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Cadmium, Total	0.00040		mg/l	0.00020	0.00005	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Calcium, Total	332.		mg/l	0.100	0.0394	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Chromium, Total	0.05534		mg/l	0.00100	0.00017	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.00458		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Copper, Total	0.1387		mg/l	0.00100	0.00038	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Iron, Total	12.8		mg/l	0.0500	0.0191	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Lead, Total	0.3998		mg/l	0.00100	0.00034	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Magnesium, Total	14.8		mg/l	0.0700	0.0242	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Manganese, Total	0.9415		mg/l	0.00100	0.00044	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Mercury, Total	0.01565		mg/l	0.00100	0.00045	5	06/27/23 00:15	06/28/23 16:17	EPA 7470A	1,7470A	DMB
Nickel, Total	0.02465		mg/l	0.00200	0.00055	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Potassium, Total	23.4		mg/l	0.100	0.0309	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Selenium, Total	0.00473	J	mg/l	0.00500	0.00173	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Silver, Total	0.00075		mg/l	0.00040	0.00016	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Sodium, Total	77.4		mg/l	0.100	0.0293	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Thallium, Total	0.00021	J	mg/l	0.00100	0.00014	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Vanadium, Total	0.01793		mg/l	0.00500	0.00157	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Zinc, Total	0.1732		mg/l	0.01000	0.00341	1	06/26/23 22:00	06/29/23 16:33	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0392		mg/l	0.0100	0.00327	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.03961		mg/l	0.00400	0.00042	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.01112		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.2128		mg/l	0.00050	0.00017	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-03
Client ID: 8B-1E-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/20/23 13:00
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	269.		mg/l	0.100	0.0394	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.00230		mg/l	0.00100	0.00017	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00098		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00108		mg/l	0.00100	0.00038	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Iron, Dissolved	0.116		mg/l	0.0500	0.0191	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Lead, Dissolved	0.00387		mg/l	0.00100	0.00034	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	13.6		mg/l	0.0700	0.0242	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	0.7759		mg/l	0.00100	0.00044	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/27/23 13:02	06/28/23 16:39	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00941		mg/l	0.00200	0.00055	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	23.5		mg/l	0.100	0.0309	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	95.2		mg/l	0.100	0.0293	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	0.00252	J	mg/l	0.00500	0.00157	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	0.00381	J	mg/l	0.01000	0.00341	1	06/27/23 11:33	06/30/23 08:15	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-04
Client ID: 8B-1S-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 11:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8.36		mg/l	0.0100	0.00327	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Antimony, Total	0.1181		mg/l	0.00400	0.00042	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.04005		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Barium, Total	0.5630		mg/l	0.00050	0.00017	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Beryllium, Total	0.00055		mg/l	0.00050	0.00010	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Cadmium, Total	0.00416		mg/l	0.00020	0.00005	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Calcium, Total	75.7		mg/l	0.100	0.0394	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Chromium, Total	0.3601		mg/l	0.00100	0.00017	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.01256		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Copper, Total	0.9357		mg/l	0.00100	0.00038	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Iron, Total	55.3		mg/l	0.0500	0.0191	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Lead, Total	0.6933		mg/l	0.00100	0.00034	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Magnesium, Total	8.58		mg/l	0.0700	0.0242	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Manganese, Total	1.088		mg/l	0.00100	0.00044	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Mercury, Total	0.01225		mg/l	0.00040	0.00018	2	06/27/23 00:15	06/28/23 16:29	EPA 7470A	1,7470A	DMB
Nickel, Total	0.03319		mg/l	0.00200	0.00055	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Potassium, Total	18.4		mg/l	0.100	0.0309	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Selenium, Total	0.00772		mg/l	0.00500	0.00173	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Silver, Total	0.00071		mg/l	0.00040	0.00016	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Sodium, Total	28.1		mg/l	0.100	0.0293	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Thallium, Total	0.00033	J	mg/l	0.00100	0.00014	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Vanadium, Total	0.03615		mg/l	0.00500	0.00157	1	06/26/23 22:00	06/29/23 16:37	EPA 3005A	1,6020B	EJF
Zinc, Total	1.866		mg/l	0.1000	0.03410	10	06/26/23 22:00	06/29/23 20:22	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0162		mg/l	0.0100	0.00327	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.03616		mg/l	0.00400	0.00042	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.00352		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.06875		mg/l	0.00050	0.00017	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-04
Client ID: 8B-1S-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/20/23 11:00
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	64.6		mg/l	0.100	0.0394	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.00061	J	mg/l	0.00100	0.00017	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00083		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00093	J	mg/l	0.00100	0.00038	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Iron, Dissolved	0.0920		mg/l	0.0500	0.0191	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Lead, Dissolved	0.00065	J	mg/l	0.00100	0.00034	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	6.27		mg/l	0.0700	0.0242	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	0.4841		mg/l	0.00100	0.00044	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/27/23 13:02	06/28/23 16:42	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00495		mg/l	0.00200	0.00055	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	17.5		mg/l	0.100	0.0309	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	29.1		mg/l	0.100	0.0293	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	0.00806	J	mg/l	0.01000	0.00341	1	06/27/23 11:33	06/30/23 08:19	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-05
Client ID: 8B-1SS-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/20/23 10:00
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6.29		mg/l	0.0100	0.00327	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Antimony, Total	0.4123		mg/l	0.04000	0.00429	10	07/10/23 11:02	07/18/23 16:32	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.03312		mg/l	0.00050	0.00016	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Barium, Total	0.4913		mg/l	0.00050	0.00017	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Beryllium, Total	0.00048	J	mg/l	0.00050	0.00010	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Cadmium, Total	0.00106		mg/l	0.00020	0.00005	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Calcium, Total	94.0		mg/l	0.100	0.0394	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Chromium, Total	0.1951		mg/l	0.00100	0.00017	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Cobalt, Total	0.00700		mg/l	0.00050	0.00016	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Copper, Total	0.8158		mg/l	0.00100	0.00038	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Iron, Total	41.6		mg/l	0.0500	0.0191	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Lead, Total	0.7143		mg/l	0.00100	0.00034	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Magnesium, Total	10.5		mg/l	0.0700	0.0242	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Manganese, Total	0.9946		mg/l	0.00100	0.00044	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Mercury, Total	0.01220		mg/l	0.00040	0.00018	2	07/10/23 12:00	07/11/23 18:28	EPA 245.1	1,7470A	DMB
Nickel, Total	0.02605		mg/l	0.00200	0.00055	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Potassium, Total	21.0		mg/l	0.100	0.0309	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Silver, Total	0.00055		mg/l	0.00040	0.00016	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Sodium, Total	36.0		mg/l	0.100	0.0293	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Thallium, Total	0.00028	J	mg/l	0.00100	0.00014	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Vanadium, Total	0.02838		mg/l	0.00500	0.00157	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Zinc, Total	0.5551		mg/l	0.01000	0.00341	1	07/10/23 11:02	07/18/23 16:15	EPA 3005A	1,6020B	WKP
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0127		mg/l	0.0100	0.00327	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Antimony, Dissolved	0.07037		mg/l	0.00400	0.00042	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Arsenic, Dissolved	0.00506		mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Barium, Dissolved	0.09087		mg/l	0.00050	0.00017	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-05 Date Collected: 06/20/23 10:00

Client ID: 8B-1SS-GW Date Received: 06/21/23

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Calcium, Dissolved	103.		mg/l	0.100	0.0394	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Chromium, Dissolved	0.00035	J	mg/l	0.00100	0.00017	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Cobalt, Dissolved	0.00052		mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Copper, Dissolved	0.00040	J	mg/l	0.00100	0.00038	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Iron, Dissolved	0.0676		mg/l	0.0500	0.0191	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Magnesium, Dissolved	8.89		mg/l	0.0700	0.0242	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Manganese, Dissolved	0.6527		mg/l	0.00100	0.00044	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	07/10/23 20:18	07/12/23 18:13	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.00460		mg/l	0.00200	0.00055	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Potassium, Dissolved	24.3		mg/l	0.100	0.0309	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Sodium, Dissolved	38.0		mg/l	0.100	0.0293	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	07/10/23 22:12	07/18/23 17:50	EPA 3005A	1,6020B	WKP

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-06
Client ID: 8B-1W-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1.21		mg/l	0.0100	0.00327	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Antimony, Total	2.134		mg/l	0.00400	0.00042	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Arsenic, Total	0.01964		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Barium, Total	0.4229		mg/l	0.00050	0.00017	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Cadmium, Total	0.00041		mg/l	0.00020	0.00005	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Calcium, Total	463.		mg/l	0.500	0.197	5	06/26/23 22:00	06/29/23 17:00	EPA 3005A	1,6020B	EJF
Chromium, Total	0.01682		mg/l	0.00100	0.00017	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Cobalt, Total	0.00178		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Copper, Total	0.09192		mg/l	0.00100	0.00038	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Iron, Total	10.8		mg/l	0.0500	0.0191	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Lead, Total	0.5089		mg/l	0.00100	0.00034	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Magnesium, Total	20.1		mg/l	0.0700	0.0242	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Manganese, Total	0.8157		mg/l	0.00100	0.00044	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Mercury, Total	0.03980		mg/l	0.00400	0.00183	20	06/27/23 00:15	06/28/23 17:12	EPA 7470A	1,7470A	DMB
Nickel, Total	0.00614		mg/l	0.00200	0.00055	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Potassium, Total	16.5		mg/l	0.100	0.0309	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Sodium, Total	48.8		mg/l	0.100	0.0293	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Thallium, Total	0.00029	J	mg/l	0.00100	0.00014	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Vanadium, Total	0.00592		mg/l	0.00500	0.00157	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Zinc, Total	0.1562		mg/l	0.01000	0.00341	1	06/26/23 22:00	06/29/23 16:42	EPA 3005A	1,6020B	EJF
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0167		mg/l	0.0100	0.00327	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Antimony, Dissolved	0.1757		mg/l	0.00400	0.00042	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Arsenic, Dissolved	0.01227		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Barium, Dissolved	0.2432		mg/l	0.00050	0.00017	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-06
Client ID: 8B-1W-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/20/23 09:15
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Calcium, Dissolved	448.		mg/l	0.100	0.0394	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Chromium, Dissolved	0.00680		mg/l	0.00100	0.00017	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Cobalt, Dissolved	0.00021	J	mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Copper, Dissolved	0.00055	J	mg/l	0.00100	0.00038	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Iron, Dissolved	2.14		mg/l	0.0500	0.0191	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Lead, Dissolved	0.00089	J	mg/l	0.00100	0.00034	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Magnesium, Dissolved	21.1		mg/l	0.0700	0.0242	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Manganese, Dissolved	0.8782		mg/l	0.00100	0.00044	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/27/23 13:02	06/28/23 16:46	EPA 7470A	1,7470A	DMB
Nickel, Dissolved	0.00247		mg/l	0.00200	0.00055	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Potassium, Dissolved	16.7		mg/l	0.100	0.0309	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Sodium, Dissolved	52.7		mg/l	0.100	0.0293	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	06/27/23 11:33	06/30/23 08:24	EPA 3005A	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-07
Client ID: 8B-1WW-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.376		mg/l	0.0100	0.00327	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Antimony, Total	0.00582		mg/l	0.00400	0.00042	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.1321		mg/l	0.00050	0.00016	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Barium, Total	0.3184		mg/l	0.00050	0.00017	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Cadmium, Total	0.00006	J	mg/l	0.00020	0.00005	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Calcium, Total	322.		mg/l	0.100	0.0394	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Chromium, Total	0.01391		mg/l	0.00100	0.00017	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Cobalt, Total	0.00051		mg/l	0.00050	0.00016	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Copper, Total	0.01785		mg/l	0.00100	0.00038	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Iron, Total	3.56		mg/l	0.0500	0.0191	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Lead, Total	0.05407		mg/l	0.00100	0.00034	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Magnesium, Total	11.6		mg/l	0.0700	0.0242	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Manganese, Total	0.6437		mg/l	0.00100	0.00044	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00357		mg/l	0.00020	0.00009	1	07/10/23 12:00	07/11/23 17:08	EPA 245.1	1,7470A	DMB
Nickel, Total	0.00302		mg/l	0.00200	0.00055	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Potassium, Total	21.4		mg/l	0.100	0.0309	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Sodium, Total	38.7		mg/l	0.100	0.0293	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Vanadium, Total	0.00170	J	mg/l	0.00500	0.00157	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Zinc, Total	0.04376		mg/l	0.01000	0.00341	1	07/10/23 11:02	07/18/23 16:19	EPA 3005A	1,6020B	WKP
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00838	J	mg/l	0.0100	0.00327	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Antimony, Dissolved	0.00428		mg/l	0.00400	0.00042	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Arsenic, Dissolved	0.1243		mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Barium, Dissolved	0.2627		mg/l	0.00050	0.00017	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-07
Client ID: 8B-1WW-GW
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Calcium, Dissolved	264.		mg/l	0.100	0.0394	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Chromium, Dissolved	0.00178		mg/l	0.00100	0.00017	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Cobalt, Dissolved	0.00019	J	mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Copper, Dissolved	0.00073	J	mg/l	0.00100	0.00038	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Iron, Dissolved	0.0896		mg/l	0.0500	0.0191	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Magnesium, Dissolved	11.2		mg/l	0.0700	0.0242	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Manganese, Dissolved	0.5799		mg/l	0.00100	0.00044	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	07/10/23 20:18	07/12/23 18:16	EPA 7470A	1,7470A	MJR
Nickel, Dissolved	0.00190	J	mg/l	0.00200	0.00055	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Potassium, Dissolved	21.4		mg/l	0.100	0.0309	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Sodium, Dissolved	37.4		mg/l	0.100	0.0293	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	07/10/23 22:12	07/18/23 18:40	EPA 3005A	1,6020B	WKP

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-08
Client ID: 8B-1N (5.0-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 11:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9170		mg/kg	10.2	2.74	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Antimony, Total	5.84		mg/kg	5.08	0.386	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Arsenic, Total	21.3		mg/kg	1.02	0.211	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Barium, Total	501		mg/kg	1.02	0.177	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.856		mg/kg	0.508	0.034	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Cadmium, Total	0.554	J	mg/kg	1.02	0.100	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Calcium, Total	20200		mg/kg	10.2	3.55	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Chromium, Total	47.6		mg/kg	1.02	0.098	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Cobalt, Total	8.15		mg/kg	2.03	0.168	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Copper, Total	280		mg/kg	1.02	0.262	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Iron, Total	31400		mg/kg	5.08	0.917	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Lead, Total	407		mg/kg	5.08	0.272	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Magnesium, Total	5750		mg/kg	10.2	1.56	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Manganese, Total	731		mg/kg	1.02	0.161	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Mercury, Total	1.22		mg/kg	0.083	0.054	1	06/27/23 07:05	06/29/23 10:08	EPA 7471B	1,7471B	DMB
Nickel, Total	18.0		mg/kg	2.54	0.246	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Potassium, Total	972		mg/kg	254	14.6	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Selenium, Total	1.35	J	mg/kg	2.03	0.262	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.508	0.287	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Sodium, Total	458		mg/kg	203	3.20	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Thallium, Total	0.993	J	mg/kg	2.03	0.320	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Vanadium, Total	39.6		mg/kg	1.02	0.206	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC
Zinc, Total	227		mg/kg	5.08	0.298	2	06/27/23 05:40	06/29/23 15:15	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-09
Client ID: 8B-1NN (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 12:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4490		mg/kg	8.95	2.42	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Antimony, Total	5.94		mg/kg	4.48	0.340	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Arsenic, Total	22.0		mg/kg	0.895	0.186	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Barium, Total	105		mg/kg	0.895	0.156	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.368	J	mg/kg	0.448	0.030	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Cadmium, Total	1.61		mg/kg	0.895	0.088	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Calcium, Total	3470		mg/kg	8.95	3.13	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Chromium, Total	17.2		mg/kg	0.895	0.086	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Cobalt, Total	7.78		mg/kg	1.79	0.149	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Copper, Total	216		mg/kg	0.895	0.231	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Iron, Total	16300		mg/kg	4.48	0.808	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Lead, Total	459		mg/kg	4.48	0.240	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Magnesium, Total	1410		mg/kg	8.95	1.38	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Manganese, Total	375		mg/kg	0.895	0.142	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Mercury, Total	1.41		mg/kg	0.073	0.047	1	07/08/23 10:40	07/10/23 13:48	EPA 7471B	1,7471B	DMB
Nickel, Total	20.1		mg/kg	2.24	0.217	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Potassium, Total	474		mg/kg	224	12.9	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Selenium, Total	2.13		mg/kg	1.79	0.231	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Silver, Total	0.705		mg/kg	0.448	0.253	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Sodium, Total	196		mg/kg	179	2.82	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Thallium, Total	ND		mg/kg	1.79	0.282	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Vanadium, Total	24.6		mg/kg	0.895	0.182	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA
Zinc, Total	447		mg/kg	4.48	0.262	2	07/08/23 09:25	07/16/23 18:53	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-10
Client ID: 8B-1NN (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 12:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5550		mg/kg	8.46	2.28	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Antimony, Total	10.2		mg/kg	4.23	0.321	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Arsenic, Total	10.8		mg/kg	0.846	0.176	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Barium, Total	182		mg/kg	0.846	0.147	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.391	J	mg/kg	0.423	0.028	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Cadmium, Total	0.793	J	mg/kg	0.846	0.083	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Calcium, Total	7920		mg/kg	8.46	2.96	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Chromium, Total	18.3		mg/kg	0.846	0.081	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Cobalt, Total	11.4		mg/kg	1.69	0.140	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Copper, Total	128		mg/kg	0.846	0.218	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Iron, Total	20500		mg/kg	4.23	0.764	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Lead, Total	620		mg/kg	4.23	0.227	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Magnesium, Total	4040		mg/kg	8.46	1.30	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Manganese, Total	236		mg/kg	0.846	0.134	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Mercury, Total	2.45		mg/kg	0.070	0.045	1	07/08/23 10:40	07/10/23 14:01	EPA 7471B	1,7471B	DMB
Nickel, Total	20.5		mg/kg	2.11	0.205	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Potassium, Total	767		mg/kg	211	12.2	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Selenium, Total	0.706	J	mg/kg	1.69	0.218	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Silver, Total	ND		mg/kg	0.423	0.239	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Sodium, Total	327		mg/kg	169	2.66	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Thallium, Total	0.276	J	mg/kg	1.69	0.266	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Vanadium, Total	24.8		mg/kg	0.846	0.172	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA
Zinc, Total	416		mg/kg	4.23	0.248	2	07/08/23 09:25	07/16/23 18:57	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-11
Client ID: 8B-1NN (6.0-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 12:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5070		mg/kg	8.54	2.31	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Antimony, Total	5.82		mg/kg	4.27	0.324	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Arsenic, Total	9.91		mg/kg	0.854	0.178	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Barium, Total	43.6		mg/kg	0.854	0.149	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.236	J	mg/kg	0.427	0.028	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Cadmium, Total	0.491	J	mg/kg	0.854	0.084	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Calcium, Total	2630		mg/kg	8.54	2.99	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Chromium, Total	19.0		mg/kg	0.854	0.082	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Cobalt, Total	5.06		mg/kg	1.71	0.142	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Copper, Total	80.9		mg/kg	0.854	0.220	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Iron, Total	32200		mg/kg	4.27	0.771	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Lead, Total	81.4		mg/kg	4.27	0.229	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Magnesium, Total	957		mg/kg	8.54	1.32	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Manganese, Total	477		mg/kg	0.854	0.136	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Mercury, Total	0.583		mg/kg	0.071	0.047	1	07/08/23 10:40	07/10/23 14:04	EPA 7471B	1,7471B	DMB
Nickel, Total	17.1		mg/kg	2.14	0.207	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Potassium, Total	394		mg/kg	214	12.3	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Selenium, Total	1.26	J	mg/kg	1.71	0.220	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Silver, Total	ND		mg/kg	0.427	0.242	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Sodium, Total	121	J	mg/kg	171	2.69	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Thallium, Total	ND		mg/kg	1.71	0.269	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Vanadium, Total	27.8		mg/kg	0.854	0.173	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA
Zinc, Total	139		mg/kg	4.27	0.250	2	07/08/23 09:25	07/16/23 19:02	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-12
Client ID: 8B-1E (6.0-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8350		mg/kg	9.49	2.56	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Antimony, Total	1.35	J	mg/kg	4.74	0.360	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Arsenic, Total	4.08		mg/kg	0.949	0.197	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Barium, Total	72.9		mg/kg	0.949	0.165	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.400	J	mg/kg	0.474	0.031	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Cadmium, Total	0.186	J	mg/kg	0.949	0.093	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Calcium, Total	1600		mg/kg	9.49	3.32	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Chromium, Total	22.4		mg/kg	0.949	0.091	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Cobalt, Total	4.99		mg/kg	1.90	0.158	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Copper, Total	51.2		mg/kg	0.949	0.245	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Iron, Total	12400		mg/kg	4.74	0.857	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Lead, Total	86.9		mg/kg	4.74	0.254	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Magnesium, Total	1720		mg/kg	9.49	1.46	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Manganese, Total	93.5		mg/kg	0.949	0.151	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Mercury, Total	1.24		mg/kg	0.078	0.051	1	06/27/23 07:05	06/29/23 10:11	EPA 7471B	1,7471B	DMB
Nickel, Total	11.1		mg/kg	2.37	0.230	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Potassium, Total	659		mg/kg	237	13.7	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Selenium, Total	0.665	J	mg/kg	1.90	0.245	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.474	0.268	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Sodium, Total	132	J	mg/kg	190	2.99	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Thallium, Total	0.326	J	mg/kg	1.90	0.299	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Vanadium, Total	17.0		mg/kg	0.949	0.193	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC
Zinc, Total	80.1		mg/kg	4.74	0.278	2	06/27/23 05:40	06/29/23 15:19	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-13
Client ID: 8B-1S (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:55
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4570		mg/kg	8.46	2.28	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Antimony, Total	4.89		mg/kg	4.23	0.321	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Arsenic, Total	11.4		mg/kg	0.846	0.176	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Barium, Total	173		mg/kg	0.846	0.147	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.398	J	mg/kg	0.423	0.028	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Cadmium, Total	1.23		mg/kg	0.846	0.083	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Calcium, Total	4580		mg/kg	8.46	2.96	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Chromium, Total	22.4		mg/kg	0.846	0.081	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Cobalt, Total	7.41		mg/kg	1.69	0.140	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Copper, Total	102		mg/kg	0.846	0.218	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Iron, Total	21000		mg/kg	4.23	0.764	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Lead, Total	1000		mg/kg	4.23	0.227	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Magnesium, Total	1320		mg/kg	8.46	1.30	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Manganese, Total	225		mg/kg	0.846	0.134	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Mercury, Total	8.29		mg/kg	0.708	0.462	10	06/27/23 07:05	06/29/23 11:00	EPA 7471B	1,7471B	DMB
Nickel, Total	17.6		mg/kg	2.11	0.205	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Potassium, Total	602		mg/kg	211	12.2	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Selenium, Total	1.60	J	mg/kg	1.69	0.218	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.423	0.239	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Sodium, Total	170		mg/kg	169	2.66	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Thallium, Total	0.545	J	mg/kg	1.69	0.266	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Vanadium, Total	18.1		mg/kg	0.846	0.172	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC
Zinc, Total	290		mg/kg	4.23	0.248	2	06/27/23 05:40	06/29/23 15:22	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-14
Client ID: 8B-1S (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7000		mg/kg	9.08	2.45	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Antimony, Total	1.68	J	mg/kg	4.54	0.345	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Arsenic, Total	7.52		mg/kg	0.908	0.189	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Barium, Total	184		mg/kg	0.908	0.158	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.536		mg/kg	0.454	0.030	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Cadmium, Total	0.408	J	mg/kg	0.908	0.089	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Calcium, Total	3590		mg/kg	9.08	3.18	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Chromium, Total	18.9		mg/kg	0.908	0.087	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Cobalt, Total	8.61		mg/kg	1.82	0.151	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Copper, Total	38.4		mg/kg	0.908	0.234	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Iron, Total	22700		mg/kg	4.54	0.820	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Lead, Total	70.2		mg/kg	4.54	0.243	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Magnesium, Total	3030		mg/kg	9.08	1.40	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Manganese, Total	296		mg/kg	0.908	0.144	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Mercury, Total	0.093		mg/kg	0.076	0.049	1	06/27/23 07:05	06/29/23 10:21	EPA 7471B	1,7471B	DMB
Nickel, Total	15.3		mg/kg	2.27	0.220	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Potassium, Total	869		mg/kg	227	13.1	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Selenium, Total	ND		mg/kg	1.82	0.234	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.454	0.257	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Sodium, Total	264		mg/kg	182	2.86	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Thallium, Total	0.635	J	mg/kg	1.82	0.286	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Vanadium, Total	32.1		mg/kg	0.908	0.184	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC
Zinc, Total	444		mg/kg	4.54	0.266	2	06/27/23 05:40	06/29/23 15:25	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-15
Client ID: 8B-1S (6.5-7.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4440		mg/kg	9.38	2.53	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Antimony, Total	4.87		mg/kg	4.69	0.356	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Arsenic, Total	8.14		mg/kg	0.938	0.195	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Barium, Total	170		mg/kg	0.938	0.163	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.390	J	mg/kg	0.469	0.031	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Cadmium, Total	0.639	J	mg/kg	0.938	0.092	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Calcium, Total	19100		mg/kg	9.38	3.28	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Chromium, Total	77.8		mg/kg	0.938	0.090	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Cobalt, Total	5.76		mg/kg	1.88	0.156	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Copper, Total	87.9		mg/kg	0.938	0.242	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Iron, Total	21800		mg/kg	4.69	0.847	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Lead, Total	305		mg/kg	4.69	0.251	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Magnesium, Total	4800		mg/kg	9.38	1.44	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Manganese, Total	200		mg/kg	0.938	0.149	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Mercury, Total	3.55		mg/kg	0.152	0.099	2	06/27/23 07:05	06/29/23 11:03	EPA 7471B	1,7471B	DMB
Nickel, Total	27.1		mg/kg	2.34	0.227	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Potassium, Total	701		mg/kg	234	13.5	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Selenium, Total	0.738	J	mg/kg	1.88	0.242	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.469	0.265	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Sodium, Total	269		mg/kg	188	2.95	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Thallium, Total	0.463	J	mg/kg	1.88	0.295	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Vanadium, Total	18.4		mg/kg	0.938	0.190	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC
Zinc, Total	249		mg/kg	4.69	0.275	2	06/27/23 05:40	06/29/23 15:28	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-16
Client ID: 8B-1SS (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:20
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3700		mg/kg	8.98	2.42	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Antimony, Total	1.79	J	mg/kg	4.49	0.341	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Arsenic, Total	13.6		mg/kg	0.898	0.187	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Barium, Total	62.9		mg/kg	0.898	0.156	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.316	J	mg/kg	0.449	0.030	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Cadmium, Total	0.661	J	mg/kg	0.898	0.088	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Calcium, Total	134000		mg/kg	89.8	31.4	20	07/08/23 09:25	07/16/23 22:42	EPA 3050B	1,6010D	TAA
Chromium, Total	12.2		mg/kg	0.898	0.086	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Cobalt, Total	6.42		mg/kg	1.80	0.149	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Copper, Total	79.6		mg/kg	0.898	0.232	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Iron, Total	14200		mg/kg	4.49	0.811	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Lead, Total	117		mg/kg	4.49	0.241	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Magnesium, Total	6280		mg/kg	8.98	1.38	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Manganese, Total	241		mg/kg	0.898	0.143	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Mercury, Total	0.470		mg/kg	0.072	0.047	1	07/08/23 10:40	07/10/23 14:14	EPA 7471B	1,7471B	DMB
Nickel, Total	16.2		mg/kg	2.24	0.217	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Potassium, Total	477		mg/kg	224	12.9	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Selenium, Total	0.267	J	mg/kg	1.80	0.232	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Silver, Total	ND		mg/kg	0.449	0.254	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Sodium, Total	200		mg/kg	180	2.83	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Thallium, Total	0.422	J	mg/kg	1.80	0.283	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Vanadium, Total	14.5		mg/kg	0.898	0.182	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA
Zinc, Total	243		mg/kg	4.49	0.263	2	07/08/23 09:25	07/16/23 19:06	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-17
Client ID: 8B-1SS (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:25
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4740		mg/kg	10.4	2.80	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Antimony, Total	7.76		mg/kg	5.19	0.394	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Arsenic, Total	27.2		mg/kg	1.04	0.216	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Barium, Total	281		mg/kg	1.04	0.180	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.600		mg/kg	0.519	0.034	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Cadmium, Total	3.14		mg/kg	1.04	0.102	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Calcium, Total	13800		mg/kg	10.4	3.63	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Chromium, Total	38.1		mg/kg	1.04	0.100	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Cobalt, Total	11.3		mg/kg	2.07	0.172	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Copper, Total	382		mg/kg	1.04	0.268	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Iron, Total	38200		mg/kg	5.19	0.937	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Lead, Total	638		mg/kg	5.19	0.278	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Magnesium, Total	1760		mg/kg	10.4	1.60	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Manganese, Total	290		mg/kg	1.04	0.165	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Mercury, Total	30.3		mg/kg	2.18	1.42	25	07/13/23 15:36	07/13/23 22:40	EPA 7471B	1,7471B	GMG
Nickel, Total	54.2		mg/kg	2.59	0.251	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Potassium, Total	617		mg/kg	259	14.9	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Selenium, Total	0.721	J	mg/kg	2.07	0.268	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Silver, Total	0.471	J	mg/kg	0.519	0.294	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Sodium, Total	320		mg/kg	207	3.27	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Thallium, Total	0.733	J	mg/kg	2.07	0.327	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Vanadium, Total	26.5		mg/kg	1.04	0.210	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA
Zinc, Total	1110		mg/kg	5.19	0.304	2	07/08/23 09:25	07/16/23 19:11	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-18
Client ID: 8B-1SS (6.5-7.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 10:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5120		mg/kg	8.80	2.38	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Antimony, Total	1.10	J	mg/kg	4.40	0.334	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Arsenic, Total	5.57		mg/kg	0.880	0.183	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Barium, Total	78.4		mg/kg	0.880	0.153	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.336	J	mg/kg	0.440	0.029	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Cadmium, Total	0.438	J	mg/kg	0.880	0.086	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Calcium, Total	10000		mg/kg	8.80	3.08	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Chromium, Total	40.9		mg/kg	0.880	0.085	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Cobalt, Total	5.09		mg/kg	1.76	0.146	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Copper, Total	46.6		mg/kg	0.880	0.227	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Iron, Total	15400		mg/kg	4.40	0.795	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Lead, Total	85.0		mg/kg	4.40	0.236	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Magnesium, Total	4550		mg/kg	8.80	1.36	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Manganese, Total	167		mg/kg	0.880	0.140	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Mercury, Total	1.53		mg/kg	0.073	0.048	1	07/08/23 10:40	07/10/23 14:24	EPA 7471B	1,7471B	DMB
Nickel, Total	14.0		mg/kg	2.20	0.213	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Potassium, Total	496		mg/kg	220	12.7	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Selenium, Total	0.437	J	mg/kg	1.76	0.227	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Silver, Total	ND		mg/kg	0.440	0.249	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Sodium, Total	224		mg/kg	176	2.77	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Thallium, Total	ND		mg/kg	1.76	0.277	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Vanadium, Total	25.5		mg/kg	0.880	0.179	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA
Zinc, Total	134		mg/kg	4.40	0.258	2	07/08/23 09:25	07/16/23 19:16	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-19
Client ID: 8B-1W (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4630		mg/kg	8.58	2.32	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Antimony, Total	45.0		mg/kg	4.29	0.326	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Arsenic, Total	11.0		mg/kg	0.858	0.178	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Barium, Total	232		mg/kg	0.858	0.149	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.376	J	mg/kg	0.429	0.028	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Cadmium, Total	0.839	J	mg/kg	0.858	0.084	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Calcium, Total	8990		mg/kg	8.58	3.00	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Chromium, Total	17.6		mg/kg	0.858	0.082	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Cobalt, Total	7.72		mg/kg	1.72	0.142	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Copper, Total	111		mg/kg	0.858	0.221	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Iron, Total	21200		mg/kg	4.29	0.775	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Lead, Total	309		mg/kg	4.29	0.230	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Magnesium, Total	1390		mg/kg	8.58	1.32	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Manganese, Total	303		mg/kg	0.858	0.136	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Mercury, Total	10.5		mg/kg	0.724	0.472	10	06/27/23 07:05	06/29/23 11:07	EPA 7471B	1,7471B	DMB
Nickel, Total	14.8		mg/kg	2.14	0.208	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Potassium, Total	605		mg/kg	214	12.4	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Selenium, Total	1.15	J	mg/kg	1.72	0.221	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.429	0.243	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Sodium, Total	405		mg/kg	172	2.70	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Thallium, Total	0.620	J	mg/kg	1.72	0.270	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Vanadium, Total	17.2		mg/kg	0.858	0.174	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC
Zinc, Total	368		mg/kg	4.29	0.251	2	06/27/23 05:40	06/29/23 15:46	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-20
Client ID: 8B-1W (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 67%
TCLP/SPLP Ext. Date: 07/10/23 12:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	07/11/23 23:20	07/12/23 15:23	EPA 3015	1,6010D	JMF
Barium, TCLP	0.782		mg/l	0.500	0.0210	1	07/11/23 23:20	07/12/23 15:23	EPA 3015	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/11/23 23:20	07/12/23 15:23	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/11/23 23:20	07/12/23 15:23	EPA 3015	1,6010D	JMF
Lead, TCLP	0.253	J	mg/l	0.500	0.0270	1	07/11/23 23:20	07/12/23 15:23	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/11/23 23:21	07/12/23 09:22	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/11/23 23:20	07/12/23 15:23	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/11/23 23:20	07/12/23 15:23	EPA 3015	1,6010D	JMF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-20
Client ID: 8B-1W (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	14200		mg/kg	11.6	3.12	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Antimony, Total	1390		mg/kg	5.78	0.439	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Arsenic, Total	97.9		mg/kg	1.16	0.240	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Barium, Total	332		mg/kg	1.16	0.201	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Beryllium, Total	1.30		mg/kg	0.578	0.038	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Cadmium, Total	9.61		mg/kg	1.16	0.113	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Calcium, Total	14400		mg/kg	11.6	4.05	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Chromium, Total	54.6		mg/kg	1.16	0.111	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Cobalt, Total	157		mg/kg	2.31	0.192	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Copper, Total	658		mg/kg	1.16	0.298	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Iron, Total	109000		mg/kg	57.8	10.4	20	06/27/23 05:40	06/29/23 16:27	EPA 3050B	1,6010D	MRC
Lead, Total	3110		mg/kg	5.78	0.310	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Magnesium, Total	966		mg/kg	11.6	1.78	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Manganese, Total	1080		mg/kg	1.16	0.184	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Mercury, Total	3.83		mg/kg	0.190	0.124	2	06/27/23 07:05	06/29/23 11:10	EPA 7471B	1,7471B	DMB
Nickel, Total	118		mg/kg	2.89	0.280	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Potassium, Total	5360		mg/kg	289	16.6	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Selenium, Total	5.04		mg/kg	2.31	0.298	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Silver, Total	20.0		mg/kg	0.578	0.327	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Sodium, Total	17200		mg/kg	231	3.64	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Thallium, Total	1.77	J	mg/kg	2.31	0.364	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Vanadium, Total	15.2		mg/kg	1.16	0.235	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC
Zinc, Total	3180		mg/kg	5.78	0.339	2	06/27/23 05:40	06/29/23 15:49	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-21
Client ID: 8B-1W (6.5-7.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 50%
TCLP/SPLP Ext. Date: 07/10/23 12:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.0531	J	mg/l	1.00	0.0190	1	07/14/23 12:59	07/16/23 22:02	EPA 3015	1,6010D	TAA
Barium, TCLP	0.812		mg/l	0.500	0.0210	1	07/14/23 12:59	07/16/23 22:02	EPA 3015	1,6010D	TAA
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/14/23 12:59	07/16/23 22:02	EPA 3015	1,6010D	TAA
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/14/23 12:59	07/16/23 22:02	EPA 3015	1,6010D	TAA
Lead, TCLP	0.188	J	mg/l	0.500	0.0270	1	07/14/23 12:59	07/16/23 22:02	EPA 3015	1,6010D	TAA
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/14/23 12:45	07/14/23 17:51	EPA 7470A	1,7470A	GMG
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/14/23 12:59	07/16/23 22:02	EPA 3015	1,6010D	TAA
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/14/23 12:59	07/16/23 22:02	EPA 3015	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-21
Client ID: 8B-1W (6.5-7.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 50%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9710		mg/kg	15.3	4.12	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Antimony, Total	51.1		mg/kg	7.63	0.580	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Arsenic, Total	20.1		mg/kg	1.53	0.317	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Barium, Total	455		mg/kg	1.53	0.266	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.918		mg/kg	0.763	0.050	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Cadmium, Total	1.65		mg/kg	1.53	0.150	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Calcium, Total	21000		mg/kg	15.3	5.34	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Chromium, Total	83.6		mg/kg	1.53	0.146	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Cobalt, Total	10.8		mg/kg	3.05	0.253	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Copper, Total	214		mg/kg	1.53	0.394	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Iron, Total	53400		mg/kg	76.3	13.8	20	06/27/23 05:40	06/29/23 16:30	EPA 3050B	1,6010D	MRC
Lead, Total	658		mg/kg	7.63	0.409	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Magnesium, Total	2910		mg/kg	15.3	2.35	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Manganese, Total	802		mg/kg	1.53	0.243	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Mercury, Total	14.1		mg/kg	1.25	0.815	10	06/27/23 07:05	06/29/23 10:40	EPA 7471B	1,7471B	DMB
Nickel, Total	37.2		mg/kg	3.82	0.369	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Potassium, Total	1080		mg/kg	382	22.0	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Selenium, Total	1.78	J	mg/kg	3.05	0.394	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Silver, Total	ND		mg/kg	0.763	0.432	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Sodium, Total	680		mg/kg	305	4.81	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Thallium, Total	1.47	J	mg/kg	3.05	0.481	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Vanadium, Total	35.9		mg/kg	1.53	0.310	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC
Zinc, Total	2240		mg/kg	7.63	0.447	2	06/27/23 05:40	06/29/23 14:34	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-22
Client ID: 8B-1W (6.5-7.0) DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 09:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5100		mg/kg	10.3	2.78	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Antimony, Total	8.56		mg/kg	5.14	0.391	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Arsenic, Total	17.6		mg/kg	1.03	0.214	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Barium, Total	175		mg/kg	1.03	0.179	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Beryllium, Total	0.299	J	mg/kg	0.514	0.034	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Cadmium, Total	0.901	J	mg/kg	1.03	0.101	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Calcium, Total	8420		mg/kg	10.3	3.60	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Chromium, Total	13.9		mg/kg	1.03	0.099	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Cobalt, Total	6.24		mg/kg	2.06	0.171	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Copper, Total	130		mg/kg	1.03	0.265	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Iron, Total	28100		mg/kg	5.14	0.929	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Lead, Total	604		mg/kg	5.14	0.276	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Magnesium, Total	3770		mg/kg	10.3	1.58	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Manganese, Total	252		mg/kg	1.03	0.164	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Mercury, Total	0.946		mg/kg	0.085	0.055	1	06/27/23 07:05	06/29/23 10:37	EPA 7471B	1,7471B	DMB
Nickel, Total	12.9		mg/kg	2.57	0.249	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Potassium, Total	535		mg/kg	257	14.8	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Selenium, Total	1.00	J	mg/kg	2.06	0.265	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Silver, Total	0.512	J	mg/kg	0.514	0.291	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Sodium, Total	150	J	mg/kg	206	3.24	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Thallium, Total	0.531	J	mg/kg	2.06	0.324	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Vanadium, Total	17.8		mg/kg	1.03	0.209	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC
Zinc, Total	406		mg/kg	5.14	0.302	2	06/27/23 05:40	06/29/23 15:52	EPA 3050B	1,6010D	MRC

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-23
Client ID: 8B-1WW (1.0-1.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 11:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4110		mg/kg	8.14	2.20	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Antimony, Total	2.92	J	mg/kg	4.07	0.309	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Arsenic, Total	11.7		mg/kg	0.814	0.169	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Barium, Total	94.9		mg/kg	0.814	0.142	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.284	J	mg/kg	0.407	0.027	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Cadmium, Total	1.16		mg/kg	0.814	0.080	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Calcium, Total	24000		mg/kg	8.14	2.85	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Chromium, Total	188		mg/kg	0.814	0.078	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Cobalt, Total	6.10		mg/kg	1.63	0.135	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Copper, Total	111		mg/kg	0.814	0.210	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Iron, Total	15700		mg/kg	4.07	0.735	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Lead, Total	413		mg/kg	4.07	0.218	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Magnesium, Total	10300		mg/kg	8.14	1.25	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Manganese, Total	193		mg/kg	0.814	0.129	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Mercury, Total	16.4		mg/kg	0.693	0.452	10	07/08/23 10:40	07/10/23 16:37	EPA 7471B	1,7471B	DMB
Nickel, Total	107		mg/kg	2.04	0.197	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Potassium, Total	587		mg/kg	204	11.7	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Selenium, Total	0.633	J	mg/kg	1.63	0.210	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Silver, Total	0.319	J	mg/kg	0.407	0.230	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Sodium, Total	249		mg/kg	163	2.56	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Thallium, Total	0.353	J	mg/kg	1.63	0.256	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Vanadium, Total	23.9		mg/kg	0.814	0.165	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA
Zinc, Total	352		mg/kg	4.07	0.238	2	07/08/23 09:25	07/16/23 19:20	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-24
Client ID: 8B-1WW (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 11:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3630		mg/kg	10.0	2.71	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Antimony, Total	4.65	J	mg/kg	5.02	0.382	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Arsenic, Total	17.7		mg/kg	1.00	0.209	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Barium, Total	218		mg/kg	1.00	0.175	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.540		mg/kg	0.502	0.033	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Cadmium, Total	1.55		mg/kg	1.00	0.098	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Calcium, Total	4180		mg/kg	10.0	3.52	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Chromium, Total	60.1		mg/kg	1.00	0.096	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Cobalt, Total	9.32		mg/kg	2.01	0.167	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Copper, Total	285		mg/kg	1.00	0.259	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Iron, Total	22100		mg/kg	5.02	0.907	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Lead, Total	397		mg/kg	5.02	0.269	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Magnesium, Total	952		mg/kg	10.0	1.55	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Manganese, Total	111		mg/kg	1.00	0.160	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Mercury, Total	5.76		mg/kg	0.426	0.278	5	07/08/23 10:40	07/10/23 16:47	EPA 7471B	1,7471B	DMB
Nickel, Total	27.2		mg/kg	2.51	0.243	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Potassium, Total	299		mg/kg	251	14.5	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Selenium, Total	1.83	J	mg/kg	2.01	0.259	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Silver, Total	0.509		mg/kg	0.502	0.284	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Sodium, Total	164	J	mg/kg	201	3.16	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Thallium, Total	0.444	J	mg/kg	2.01	0.316	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Vanadium, Total	15.6		mg/kg	1.00	0.204	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA
Zinc, Total	504		mg/kg	5.02	0.294	2	07/08/23 09:25	07/16/23 19:25	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-25
Client ID: 8B-1WW (6.0-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 06/20/23 12:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2850		mg/kg	9.90	2.67	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Antimony, Total	6.16		mg/kg	4.95	0.376	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Arsenic, Total	17.9		mg/kg	0.990	0.206	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Barium, Total	343		mg/kg	0.990	0.172	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Beryllium, Total	0.190	J	mg/kg	0.495	0.033	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Cadmium, Total	1.17		mg/kg	0.990	0.097	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Calcium, Total	4560		mg/kg	9.90	3.47	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Chromium, Total	17.6		mg/kg	0.990	0.095	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Cobalt, Total	2.89		mg/kg	1.98	0.164	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Copper, Total	178		mg/kg	0.990	0.256	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Iron, Total	10800		mg/kg	4.95	0.894	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Lead, Total	2760		mg/kg	4.95	0.265	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Magnesium, Total	2020		mg/kg	9.90	1.52	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Manganese, Total	124		mg/kg	0.990	0.157	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Mercury, Total	1.14		mg/kg	0.081	0.053	1	07/08/23 10:40	07/10/23 14:37	EPA 7471B	1,7471B	DMB
Nickel, Total	9.70		mg/kg	2.48	0.240	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Potassium, Total	445		mg/kg	248	14.3	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Selenium, Total	0.740	J	mg/kg	1.98	0.256	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Silver, Total	1.38		mg/kg	0.495	0.280	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Sodium, Total	133	J	mg/kg	198	3.12	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Thallium, Total	ND		mg/kg	1.98	0.312	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Vanadium, Total	13.5		mg/kg	0.990	0.201	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA
Zinc, Total	470		mg/kg	4.95	0.290	2	07/08/23 09:25	07/16/23 19:30	EPA 3050B	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08,12-15,19-22 Batch: WG1796177-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Antimony, Total	0.153	J	mg/kg	2.00	0.152	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Barium, Total	ND		mg/kg	0.400	0.070	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Calcium, Total	ND		mg/kg	4.00	1.40	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Chromium, Total	0.222	J	mg/kg	0.400	0.038	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Copper, Total	ND		mg/kg	0.400	0.103	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Iron, Total	1.07	J	mg/kg	2.00	0.361	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Lead, Total	ND		mg/kg	2.00	0.107	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Manganese, Total	ND		mg/kg	0.400	0.064	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Potassium, Total	6.64	J	mg/kg	100	5.76	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Silver, Total	ND		mg/kg	0.200	0.113	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Sodium, Total	9.09	J	mg/kg	80.0	1.26	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC
Zinc, Total	0.292	J	mg/kg	2.00	0.117	1	06/27/23 05:40	06/29/23 14:18	1,6010D	MRC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08,12-15,19-22 Batch: WG1796178-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/27/23 07:05	06/29/23 09:15	1,7471B	DMB

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,03-04,06 Batch: WG1796303-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Antimony, Total	ND		mg/l	0.00400	0.00042	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Barium, Total	ND		mg/l	0.00050	0.00017	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Calcium, Total	ND		mg/l	0.100	0.0394	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Chromium, Total	ND		mg/l	0.00100	0.00017	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Copper, Total	ND		mg/l	0.00100	0.00038	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Iron, Total	ND		mg/l	0.0500	0.0191	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Lead, Total	ND		mg/l	0.00100	0.00034	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Manganese, Total	ND		mg/l	0.00100	0.00044	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Nickel, Total	ND		mg/l	0.00200	0.00055	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Potassium, Total	ND		mg/l	0.100	0.0309	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Sodium, Total	ND		mg/l	0.100	0.0293	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Thallium, Total	ND		mg/l	0.00100	0.00014	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	06/26/23 22:00	06/27/23 16:22	1,6020B	SMV

Prep Information

Digestion Method: EPA 3005A

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,03-04,06 Batch: WG1796309-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	06/27/23 00:15	06/27/23 14:58	1,7470A	GMG

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01,03-04,06 Batch: WG1796573-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	06/27/23 11:33	06/30/23 06:56	1,6020B	EJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01,03-04,06 Batch: WG1796579-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/27/23 13:02	06/28/23 16:19	1,7470A	DMB

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 09-11,16-18,23-25 Batch: WG1800887-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Antimony, Total	ND		mg/kg	2.00	0.152	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Arsenic, Total	ND		mg/kg	0.400	0.083	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Barium, Total	ND		mg/kg	0.400	0.070	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Beryllium, Total	ND		mg/kg	0.200	0.013	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Calcium, Total	ND		mg/kg	4.00	1.40	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Cobalt, Total	ND		mg/kg	0.800	0.066	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Copper, Total	ND		mg/kg	0.400	0.103	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Iron, Total	ND		mg/kg	2.00	0.361	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Lead, Total	ND		mg/kg	2.00	0.107	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Magnesium, Total	ND		mg/kg	4.00	0.616	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Manganese, Total	ND		mg/kg	0.400	0.064	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Nickel, Total	ND		mg/kg	1.00	0.097	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Potassium, Total	ND		mg/kg	100	5.76	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Selenium, Total	ND		mg/kg	0.800	0.103	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Silver, Total	ND		mg/kg	0.200	0.113	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Sodium, Total	1.53	J	mg/kg	80.0	1.26	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Thallium, Total	ND		mg/kg	0.800	0.126	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

Method Blank Analysis
Batch Quality Control

Vanadium, Total	ND	mg/kg	0.400	0.081	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA
Zinc, Total	ND	mg/kg	2.00	0.117	1	07/08/23 09:25	07/10/23 17:58	1,6010D	TAA

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 09-11,16,18,23-25 Batch: WG1800889-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/08/23 10:40	07/10/23 13:41	1,7471B	DMB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02,05,07 Batch: WG1801296-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Antimony, Total	ND		mg/l	0.00400	0.00042	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Barium, Total	ND		mg/l	0.00050	0.00017	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Calcium, Total	ND		mg/l	0.100	0.0394	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Chromium, Total	ND		mg/l	0.00100	0.00017	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Copper, Total	ND		mg/l	0.00100	0.00038	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Iron, Total	ND		mg/l	0.0500	0.0191	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Manganese, Total	ND		mg/l	0.00100	0.00044	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Nickel, Total	ND		mg/l	0.00200	0.00055	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Potassium, Total	ND		mg/l	0.100	0.0309	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

Method Blank Analysis
Batch Quality Control

Silver, Total	ND	mg/l	0.00040	0.00016	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Sodium, Total	ND	mg/l	0.100	0.0293	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Thallium, Total	ND	mg/l	0.00100	0.00014	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Vanadium, Total	ND	mg/l	0.00500	0.00157	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF
Zinc, Total	ND	mg/l	0.01000	0.00341	1	07/10/23 11:02	07/13/23 10:38	1,6020B	EJF

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02,05,07 Batch: WG1801298-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/10/23 12:00	07/11/23 16:28	1,7470A	DMB

Prep Information

Digestion Method: EPA 245.1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02,05,07 Batch: WG1801412-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP

Project Name: AVANT GARDNER **Lab Number:** L2335541

Project Number: ES22-387153 **Report Date:** 07/19/23

Method Blank Analysis
Batch Quality Control

Nickel, Dissolved	ND	mg/l	0.00200	0.00055	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Potassium, Dissolved	ND	mg/l	0.100	0.0309	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Selenium, Dissolved	ND	mg/l	0.00500	0.00173	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Silver, Dissolved	ND	mg/l	0.00040	0.00016	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Sodium, Dissolved	ND	mg/l	0.100	0.0293	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Thallium, Dissolved	ND	mg/l	0.00100	0.00014	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Vanadium, Dissolved	ND	mg/l	0.00500	0.00157	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP
Zinc, Dissolved	ND	mg/l	0.01000	0.00341	1	07/10/23 22:12	07/18/23 17:13	1,6020B	WKP

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02,05,07 Batch: WG1801416-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	07/10/23 20:18	07/12/23 17:50	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 20 Batch: WG1801960-1										
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	07/11/23 23:20	07/12/23 15:14	1,6010D	JMF
Barium, TCLP	ND		mg/l	0.500	0.0210	1	07/11/23 23:20	07/12/23 15:14	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	07/11/23 23:20	07/12/23 15:14	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	07/11/23 23:20	07/12/23 15:14	1,6010D	JMF
Lead, TCLP	ND		mg/l	0.500	0.0270	1	07/11/23 23:20	07/12/23 15:14	1,6010D	JMF
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	07/11/23 23:20	07/12/23 15:14	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	07/11/23 23:20	07/12/23 15:14	1,6010D	JMF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 07/10/23 12:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 20 Batch: WG1801962-1										
Mercury, TCLP	0.0012		mg/l	0.0010	0.0005	1	07/11/23 23:21	07/12/23 09:05	1,7470A	MJR

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 07/10/23 12:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 17 Batch: WG1802651-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/13/23 10:10	07/13/23 21:10	1,7471B	GMG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 21 Batch: WG1803360-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/14/23 12:45	07/14/23 17:44	1,7470A	GMG

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 07/08/23 13:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 21 Batch: WG1803365-1										
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	07/14/23 12:59	07/16/23 22:24	1,6010D	TAA

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

Method Blank Analysis
Batch Quality Control

Barium, TCLP	ND	mg/l	0.500	0.0210	1	07/14/23 12:59	07/16/23 22:24	1,6010D	TAA
Cadmium, TCLP	ND	mg/l	0.100	0.0100	1	07/14/23 12:59	07/16/23 22:24	1,6010D	TAA
Chromium, TCLP	ND	mg/l	0.200	0.0210	1	07/14/23 12:59	07/16/23 22:24	1,6010D	TAA
Lead, TCLP	ND	mg/l	0.500	0.0270	1	07/14/23 12:59	07/16/23 22:24	1,6010D	TAA
Selenium, TCLP	ND	mg/l	0.500	0.0350	1	07/14/23 12:59	07/16/23 22:24	1,6010D	TAA
Silver, TCLP	ND	mg/l	0.100	0.0280	1	07/14/23 12:59	07/16/23 22:24	1,6010D	TAA

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 07/08/23 13:20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 Batch: WG1796177-2 SRM Lot Number: D119-540								
Aluminum, Total	79		-		48-152	-		
Antimony, Total	135		-		10-190	-		
Arsenic, Total	105		-		83-117	-		
Barium, Total	103		-		82-118	-		
Beryllium, Total	106		-		83-117	-		
Cadmium, Total	104		-		82-117	-		
Calcium, Total	105		-		81-118	-		
Chromium, Total	108		-		82-119	-		
Cobalt, Total	107		-		83-117	-		
Copper, Total	104		-		84-116	-		
Iron, Total	101		-		60-140	-		
Lead, Total	106		-		82-118	-		
Magnesium, Total	95		-		76-124	-		
Manganese, Total	105		-		82-118	-		
Nickel, Total	107		-		82-117	-		
Potassium, Total	94		-		70-130	-		
Selenium, Total	109		-		79-121	-		
Silver, Total	105		-		80-120	-		
Sodium, Total	109		-		74-126	-		
Thallium, Total	110		-		81-119	-		
Vanadium, Total	105		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 Batch: WG1796177-2 SRM Lot Number: D119-540					
Zinc, Total	104	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 Batch: WG1796178-2 SRM Lot Number: D119-540					
Mercury, Total	92	-	73-127	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 Batch: WG1796303-2					
Aluminum, Total	103	-	80-120	-	
Antimony, Total	90	-	80-120	-	
Arsenic, Total	107	-	80-120	-	
Barium, Total	105	-	80-120	-	
Beryllium, Total	105	-	80-120	-	
Cadmium, Total	101	-	80-120	-	
Calcium, Total	88	-	80-120	-	
Chromium, Total	94	-	80-120	-	
Cobalt, Total	99	-	80-120	-	
Copper, Total	100	-	80-120	-	
Iron, Total	106	-	80-120	-	
Lead, Total	101	-	80-120	-	
Magnesium, Total	101	-	80-120	-	
Manganese, Total	100	-	80-120	-	
Nickel, Total	99	-	80-120	-	
Potassium, Total	108	-	80-120	-	
Selenium, Total	103	-	80-120	-	
Silver, Total	101	-	80-120	-	
Sodium, Total	102	-	80-120	-	
Thallium, Total	101	-	80-120	-	
Vanadium, Total	97	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 Batch: WG1796303-2					
Zinc, Total	100	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 Batch: WG1796309-2					
Mercury, Total	93	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 Batch: WG1796573-2					
Aluminum, Dissolved	100	-	80-120	-	
Antimony, Dissolved	95	-	80-120	-	
Arsenic, Dissolved	106	-	80-120	-	
Barium, Dissolved	101	-	80-120	-	
Beryllium, Dissolved	106	-	80-120	-	
Cadmium, Dissolved	108	-	80-120	-	
Calcium, Dissolved	93	-	80-120	-	
Chromium, Dissolved	100	-	80-120	-	
Cobalt, Dissolved	102	-	80-120	-	
Copper, Dissolved	104	-	80-120	-	
Iron, Dissolved	105	-	80-120	-	
Lead, Dissolved	107	-	80-120	-	
Magnesium, Dissolved	101	-	80-120	-	
Manganese, Dissolved	101	-	80-120	-	
Nickel, Dissolved	101	-	80-120	-	
Potassium, Dissolved	100	-	80-120	-	
Selenium, Dissolved	98	-	80-120	-	
Silver, Dissolved	106	-	80-120	-	
Sodium, Dissolved	100	-	80-120	-	
Thallium, Dissolved	103	-	80-120	-	
Vanadium, Dissolved	101	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 Batch: WG1796573-2					
Zinc, Dissolved	102	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 Batch: WG1796579-2					
Mercury, Dissolved	90	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-18,23-25 Batch: WG1800887-2 SRM Lot Number: D119-540					
Aluminum, Total	74	-	48-152	-	
Antimony, Total	125	-	10-190	-	
Arsenic, Total	99	-	83-117	-	
Barium, Total	89	-	82-118	-	
Beryllium, Total	91	-	83-117	-	
Cadmium, Total	97	-	82-117	-	
Calcium, Total	89	-	81-118	-	
Chromium, Total	102	-	82-119	-	
Cobalt, Total	98	-	83-117	-	
Copper, Total	101	-	84-116	-	
Iron, Total	94	-	60-140	-	
Lead, Total	99	-	82-118	-	
Magnesium, Total	91	-	76-124	-	
Manganese, Total	93	-	82-118	-	
Nickel, Total	99	-	82-117	-	
Potassium, Total	84	-	70-130	-	
Selenium, Total	103	-	79-121	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	90	-	74-126	-	
Thallium, Total	100	-	81-119	-	
Vanadium, Total	98	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-18,23-25 Batch: WG1800887-2 SRM Lot Number: D119-540					
Zinc, Total	97	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 09-11,16,18,23-25 Batch: WG1800889-2 SRM Lot Number: D119-540					
Mercury, Total	94	-	73-127	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05,07 Batch: WG1801296-2					
Aluminum, Total	99	-	80-120	-	
Antimony, Total	91	-	80-120	-	
Arsenic, Total	102	-	80-120	-	
Barium, Total	99	-	80-120	-	
Beryllium, Total	98	-	80-120	-	
Cadmium, Total	103	-	80-120	-	
Calcium, Total	94	-	80-120	-	
Chromium, Total	100	-	80-120	-	
Cobalt, Total	100	-	80-120	-	
Copper, Total	104	-	80-120	-	
Iron, Total	101	-	80-120	-	
Lead, Total	102	-	80-120	-	
Magnesium, Total	101	-	80-120	-	
Manganese, Total	99	-	80-120	-	
Nickel, Total	100	-	80-120	-	
Potassium, Total	98	-	80-120	-	
Selenium, Total	92	-	80-120	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	98	-	80-120	-	
Thallium, Total	104	-	80-120	-	
Vanadium, Total	94	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05,07 Batch: WG1801296-2					
Zinc, Total	98	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 02,05,07 Batch: WG1801298-2					
Mercury, Total	100	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 Batch: WG1801412-2					
Aluminum, Dissolved	102	-	80-120	-	
Antimony, Dissolved	103	-	80-120	-	
Arsenic, Dissolved	104	-	80-120	-	
Barium, Dissolved	107	-	80-120	-	
Beryllium, Dissolved	103	-	80-120	-	
Cadmium, Dissolved	109	-	80-120	-	
Calcium, Dissolved	115	-	80-120	-	
Chromium, Dissolved	103	-	80-120	-	
Cobalt, Dissolved	109	-	80-120	-	
Copper, Dissolved	109	-	80-120	-	
Iron, Dissolved	118	-	80-120	-	
Lead, Dissolved	108	-	80-120	-	
Magnesium, Dissolved	111	-	80-120	-	
Manganese, Dissolved	117	-	80-120	-	
Nickel, Dissolved	108	-	80-120	-	
Potassium, Dissolved	119	-	80-120	-	
Selenium, Dissolved	98	-	80-120	-	
Silver, Dissolved	105	-	80-120	-	
Sodium, Dissolved	110	-	80-120	-	
Thallium, Dissolved	110	-	80-120	-	
Vanadium, Dissolved	106	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 Batch: WG1801412-2					
Zinc, Dissolved	107	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 Batch: WG1801416-2					
Mercury, Dissolved	94	-	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 20 Batch: WG1801960-2					
Arsenic, TCLP	100	-	75-125	-	20
Barium, TCLP	96	-	75-125	-	20
Cadmium, TCLP	99	-	75-125	-	20
Chromium, TCLP	95	-	75-125	-	20
Lead, TCLP	92	-	75-125	-	20
Selenium, TCLP	98	-	75-125	-	20
Silver, TCLP	96	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 20 Batch: WG1801962-2					
Mercury, TCLP	120	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 17 Batch: WG1802651-2 SRM Lot Number: D119-540					
Mercury, Total	95	-	73-127	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 21 Batch: WG1803360-2					
Mercury, TCLP	104	-	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 21 Batch: WG1803365-2					
Arsenic, TCLP	96	-	75-125	-	20
Barium, TCLP	97	-	75-125	-	20
Cadmium, TCLP	98	-	75-125	-	20
Chromium, TCLP	98	-	75-125	-	20
Lead, TCLP	94	-	75-125	-	20
Selenium, TCLP	95	-	75-125	-	20
Silver, TCLP	97	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 QC Batch ID: WG1796177-3 WG1796177-4 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)												
Aluminum, Total	9710	309	12200	**805**	Q	10800	**358**	Q	75-125	12		20
Antimony, Total	51.1	77.3	154	**133**	Q	116	85		75-125	**28**	Q	20
Arsenic, Total	20.1	18.6	46.0	**140**	Q	45.4	**138**	Q	75-125	1		20
Barium, Total	455	309	715	84		674	**72**	Q	75-125	6		20
Beryllium, Total	0.918	7.73	8.75	101		8.61	101		75-125	2		20
Cadmium, Total	1.65	8.2	9.09	91		9.03	91		75-125	1		20
Calcium, Total	21000	1550	24300	**213**	Q	23600	**171**	Q	75-125	3		20
Chromium, Total	83.6	30.9	98.6	**48**	Q	109	83		75-125	10		20
Cobalt, Total	10.8	77.3	86.3	98		87.5	101		75-125	1		20
Copper, Total	214	38.7	242	**72**	Q	260	121		75-125	7		20
Iron, Total	53400	155	86300	**21300**	Q	85000	**20700**	Q	75-125	2		20
Lead, Total	658	82	607	**0**	Q	604	**0**	Q	75-125	0		20
Magnesium, Total	2910	1550	4840	125		4700	117		75-125	3		20
Manganese, Total	802	77.3	1010	**269**	Q	749	**0**	Q	75-125	**30**	Q	20
Nickel, Total	37.2	77.3	105	88		109	94		75-125	4		20
Potassium, Total	1080	1550	2900	118		2760	110		75-125	5		20
Selenium, Total	1.78J	18.6	22.1	119		21.8	119		75-125	1		20
Silver, Total	ND	7.73	7.61	98		7.66	100		75-125	1		20
Sodium, Total	680	1550	2510	118		2460	117		75-125	2		20
Thallium, Total	1.47J	18.6	19.6	106		19.3	106		75-125	2		20
Vanadium, Total	35.9	77.3	117	105		116	105		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 QC Batch ID: WG1796177-3 WG1796177-4 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)												
Zinc, Total	2240	77.3	786	**0**	Q	732	**0**	Q	75-125	7		20
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 QC Batch ID: WG1796178-3 WG1796178-4 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)												
Mercury, Total	14.1	2.49	21.0	**277**	Q	14.7	**24**	Q	80-120	**35**	Q	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796303-3 QC Sample: L2333903-05 Client ID: MS Sample									
Aluminum, Total	0.096	2	2.07	99	-	-	75-125	-	20
Antimony, Total	ND	0.5	0.4316	86	-	-	75-125	-	20
Arsenic, Total	0.0003J	0.12	0.1203	100	-	-	75-125	-	20
Barium, Total	0.0020	2	1.980	99	-	-	75-125	-	20
Beryllium, Total	0.0001J	0.05	0.05132	103	-	-	75-125	-	20
Cadmium, Total	ND	0.053	0.05263	99	-	-	75-125	-	20
Calcium, Total	1.06	10	13.2	121	-	-	75-125	-	20
Chromium, Total	0.0002J	0.2	0.1870	94	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.4927	98	-	-	75-125	-	20
Copper, Total	ND	0.25	0.2480	99	-	-	75-125	-	20
Iron, Total	0.043J	1	1.14	114	-	-	75-125	-	20
Lead, Total	ND	0.53	0.5086	96	-	-	75-125	-	20
Magnesium, Total	0.158	10	9.62	95	-	-	75-125	-	20
Manganese, Total	0.0079	0.5	0.5066	100	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.5004	100	-	-	75-125	-	20
Potassium, Total	0.301	10	10.5	102	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.126	105	-	-	75-125	-	20
Silver, Total	ND	0.05	0.04814	96	-	-	75-125	-	20
Sodium, Total	1.32	10	10.9	96	-	-	75-125	-	20
Thallium, Total	0.0002J	0.12	0.1179	98	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.4773	95	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796303-3 QC Sample: L2333903-05 Client ID: MS Sample									
Zinc, Total	0.0041J	0.5	0.5075	102	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796309-3 QC Sample: L2336316-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00453	91	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796573-3 QC Sample: L2333713-01 Client ID: MS Sample									
Aluminum, Dissolved	0.038	2	2.08	102	-	-	75-125	-	20
Antimony, Dissolved	ND	0.5	0.4835	97	-	-	75-125	-	20
Arsenic, Dissolved	0.00460	0.12	0.1334	107	-	-	75-125	-	20
Barium, Dissolved	0.0093	2	1.992	99	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05519	110	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.053	0.05717	108	-	-	75-125	-	20
Calcium, Dissolved	38.7	10	47.3	86	-	-	75-125	-	20
Chromium, Dissolved	0.0003J	0.2	0.2053	103	-	-	75-125	-	20
Cobalt, Dissolved	ND	0.5	0.5199	104	-	-	75-125	-	20
Copper, Dissolved	0.0005J	0.25	0.2614	104	-	-	75-125	-	20
Iron, Dissolved	0.069	1	1.14	107	-	-	75-125	-	20
Lead, Dissolved	ND	0.53	0.5514	104	-	-	75-125	-	20
Magnesium, Dissolved	12.5	10	22.8	103	-	-	75-125	-	20
Manganese, Dissolved	0.3645	0.5	0.8730	102	-	-	75-125	-	20
Nickel, Dissolved	ND	0.5	0.5161	103	-	-	75-125	-	20
Potassium, Dissolved	2.15	10	12.1	100	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.124	103	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05371	107	-	-	75-125	-	20
Sodium, Dissolved	13.7	10	24.0	103	-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1255	104	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.5099	102	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796573-3 QC Sample: L2333713-01 Client ID: MS Sample									
Zinc, Dissolved	ND	0.5	0.5214	104	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796579-3 QC Sample: L2334118-13 Client ID: MS Sample									
Mercury, Dissolved	ND	0.005	0.00468	94	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-18,23-25 QC Batch ID: WG1800887-3 QC Sample: L2338616-01 Client ID: MS Sample										
Aluminum, Total	4800	162	5770	**598**	Q	-	-	75-125	-	20
Antimony, Total	0.272J	40.6	32.8	81		-	-	75-125	-	20
Arsenic, Total	2.51	9.74	11.7	94		-	-	75-125	-	20
Barium, Total	32.0	162	135	**63**	Q	-	-	75-125	-	20
Beryllium, Total	0.452	4.06	4.25	94		-	-	75-125	-	20
Cadmium, Total	0.205J	4.3	4.05	94		-	-	75-125	-	20
Calcium, Total	662	812	1170	**62**	Q	-	-	75-125	-	20
Chromium, Total	16.2	16.2	31.6	95		-	-	75-125	-	20
Cobalt, Total	5.19	40.6	40.4	87		-	-	75-125	-	20
Copper, Total	11.1	20.3	30.2	94		-	-	75-125	-	20
Iron, Total	9950	81.2	10100	**185**	Q	-	-	75-125	-	20
Lead, Total	33.6	43	72.2	90		-	-	75-125	-	20
Magnesium, Total	1420	812	2230	100		-	-	75-125	-	20
Manganese, Total	56.5	40.6	77.5	**52**	Q	-	-	75-125	-	20
Nickel, Total	13.9	40.6	48.9	86		-	-	75-125	-	20
Potassium, Total	237	812	785	**68**	Q	-	-	75-125	-	20
Selenium, Total	0.300J	9.74	8.53	88		-	-	75-125	-	20
Silver, Total	ND	4.06	3.68	91		-	-	75-125	-	20
Sodium, Total	37.1J	812	554	**68**	Q	-	-	75-125	-	20
Thallium, Total	0.354J	9.74	8.56	88		-	-	75-125	-	20
Vanadium, Total	21.7	40.6	58.7	91		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-18,23-25 QC Batch ID: WG1800887-3 QC Sample: L2338616-01 Client ID: MS Sample										
Zinc, Total	92.0	40.6	134	103		-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 09-11,16,18,23-25 QC Batch ID: WG1800889-3 QC Sample: L2335541-09 Client ID: 8B-1NN (1.5-2.0)										
Mercury, Total	1.41	1.43	3.96	**178**	Q	-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801296-3 WG1801296-4 QC Sample: L2338623-01 Client ID: MS Sample											
Aluminum, Total	0.00448J	2	1.96	98		1.94	97		75-125	1	20
Antimony, Total	ND	0.5	0.4831	97		0.4750	95		75-125	2	20
Arsenic, Total	0.01240	0.12	0.1323	100		0.1318	100		75-125	0	20
Barium, Total	0.1626	2	2.099	97		2.065	95		75-125	2	20
Beryllium, Total	ND	0.05	0.04923	98		0.04989	100		75-125	1	20
Cadmium, Total	ND	0.053	0.05222	98		0.05237	99		75-125	0	20
Calcium, Total	140.	10	145	**50**	Q	141	**10**	Q	75-125	3	20
Chromium, Total	0.00039J	0.2	0.1979	99		0.1906	95		75-125	4	20
Cobalt, Total	0.00120	0.5	0.4930	98		0.4742	94		75-125	4	20
Copper, Total	ND	0.25	0.2553	102		0.2496	100		75-125	2	20
Iron, Total	42.0	1	42.6	**60**	Q	40.8	**0**	Q	75-125	4	20
Lead, Total	0.00036J	0.53	0.5290	100		0.5324	100		75-125	1	20
Magnesium, Total	26.4	10	34.1	77		33.6	**72**	Q	75-125	1	20
Manganese, Total	1.773	0.5	2.286	103		2.178	81		75-125	5	20
Nickel, Total	0.00240	0.5	0.5176	103		0.4846	96		75-125	7	20
Potassium, Total	27.3	10	36.2	89		34.9	76		75-125	4	20
Selenium, Total	ND	0.12	0.108	90		0.112	93		75-125	4	20
Silver, Total	ND	0.05	0.04935	99		0.04934	99		75-125	0	20
Sodium, Total	150.	10	146	**0**	Q	143	**0**	Q	75-125	2	20
Thallium, Total	0.00014J	0.12	0.1185	99		0.1230	102		75-125	4	20
Vanadium, Total	ND	0.5	0.4813	96		0.4617	92		75-125	4	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801296-3 WG1801296-4 QC Sample: L2338623-01 Client ID: MS Sample									
Zinc, Total	0.00646J	0.5	0.4879	98	0.4821	96	75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801298-3 WG1801298-4 QC Sample: L2338623-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00514	103	0.00493	99	75-125	4	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801412-3 QC Sample: L2337659-11 Client ID: MS Sample										
Aluminum, Dissolved	0.060	2	2.01	97		-	-	75-125	-	20
Antimony, Dissolved	ND	0.5	0.4987	100		-	-	75-125	-	20
Arsenic, Dissolved	0.0009	0.12	0.1179	97		-	-	75-125	-	20
Barium, Dissolved	0.1754	2	2.178	100		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05003	100		-	-	75-125	-	20
Cadmium, Dissolved	ND	0.053	0.05404	102		-	-	75-125	-	20
Calcium, Dissolved	49.4	10	51.8	**24**	Q	-	-	75-125	-	20
Chromium, Dissolved	0.0004J	0.2	0.2273	114		-	-	75-125	-	20
Cobalt, Dissolved	0.0004J	0.5	0.5045	101		-	-	75-125	-	20
Copper, Dissolved	0.00245	0.25	0.2627	104		-	-	75-125	-	20
Iron, Dissolved	0.095	1	1.12	102		-	-	75-125	-	20
Lead, Dissolved	ND	0.53	0.5442	103		-	-	75-125	-	20
Magnesium, Dissolved	10.6	10	21.0	104		-	-	75-125	-	20
Manganese, Dissolved	0.4404	0.5	0.9586	104		-	-	75-125	-	20
Nickel, Dissolved	0.0018J	0.5	0.5110	102		-	-	75-125	-	20
Potassium, Dissolved	6.64	10	17.1	105		-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.114	95		-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05081	102		-	-	75-125	-	20
Sodium, Dissolved	92.9	10	101	81		-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1254	104		-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.5687	114		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801412-3 QC Sample: L2337659-11 Client ID: MS Sample									
Zinc, Dissolved	0.0058J	0.5	0.5142	103	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801416-3 QC Sample: L2335541-02 Client ID: 8B-1NN-GW									
Mercury, Dissolved	0.00065	0.005	0.00602	107	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 20 QC Batch ID: WG1801960-3 QC Sample: L2338995-01 Client ID: MS Sample									
Arsenic, TCLP	ND	1.2	1.17	98	-	-	75-125	-	20
Barium, TCLP	0.0662J	20	18.8	94	-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.515	97	-	-	75-125	-	20
Chromium, TCLP	ND	2	1.85	92	-	-	75-125	-	20
Lead, TCLP	0.0609J	5.3	4.91	93	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.19	99	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.474	95	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 20 QC Batch ID: WG1801962-3 QC Sample: L2338995-01 Client ID: MS Sample									
Mercury, TCLP	0.0009JB	0.025	0.0239	96	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 17 QC Batch ID: WG1802651-3 QC Sample: L2339889-03 Client ID: MS Sample									
Mercury, Total	0.073J	1.51	1.64	109	-	-	80-120	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 21 QC Batch ID: WG1803360-3 WG1803360-4 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)									
Mercury, TCLP	ND	0.025	0.0250	100	0.0246	98	75-125	1	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 21 QC Batch ID: WG1803365-3 WG1803365-4 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)									
Arsenic, TCLP	0.0531J	1.2	1.26	105	1.22	102	75-125	3	20
Barium, TCLP	0.812	20	19.5	93	20.0	96	75-125	3	20
Cadmium, TCLP	ND	0.53	0.534	101	0.526	99	75-125	2	20
Chromium, TCLP	ND	2	1.90	95	1.91	96	75-125	1	20
Lead, TCLP	0.188J	5.3	5.20	98	5.10	96	75-125	2	20
Selenium, TCLP	ND	1.2	1.19	99	1.13	94	75-125	5	20
Silver, TCLP	ND	0.5	0.480	96	0.482	96	75-125	0	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796303-4 QC Sample: L2333903-05 Client ID: DUP Sample						
Cadmium, Total	ND	0.00007J	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796309-4 QC Sample: L2336316-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796573-4 QC Sample: L2333713-01 Client ID: DUP Sample						
Arsenic, Dissolved	0.00460	0.00456	mg/l	1		20
Manganese, Dissolved	0.3645	0.3550	mg/l	3		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01,03-04,06 QC Batch ID: WG1796579-4 QC Sample: L2334118-13 Client ID: DUP Sample						
Mercury, Dissolved	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-18,23-25 QC Batch ID: WG1800887-4 QC Sample: L2338616-01 Client ID: DUP Sample					
Antimony, Total	0.272J	0.345J	mg/kg	NC	20
Arsenic, Total	2.51	2.69	mg/kg	7	20
Beryllium, Total	0.452	0.429	mg/kg	5	20
Cadmium, Total	0.205J	0.196J	mg/kg	NC	20
Chromium, Total	16.2	15.6	mg/kg	4	20
Copper, Total	11.1	10.0	mg/kg	10	20
Lead, Total	33.6	31.4	mg/kg	7	20
Nickel, Total	13.9	12.7	mg/kg	9	20
Selenium, Total	0.300J	0.277J	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Thallium, Total	0.354J	0.357J	mg/kg	NC	20
Zinc, Total	92.0	86.0	mg/kg	7	20
Total Metals - Mansfield Lab Associated sample(s): 09-11,16,18,23-25 QC Batch ID: WG1800889-4 QC Sample: L2335541-09 Client ID: 8B-1NN (1.5-2.0)					
Mercury, Total	1.41	1.26	mg/kg	11	20
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801412-4 QC Sample: L2337659-11 Client ID: DUP Sample					
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Copper, Dissolved	0.00245	0.00258	mg/l	5	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801416-4 QC Sample: L2335541-02 Client ID: 8B-1NN-GW						
Mercury, Dissolved	0.00065	0.00149	mg/l	**77**	Q	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 20 QC Batch ID: WG1801960-4 QC Sample: L2338995-01 Client ID: DUP Sample						
Arsenic, TCLP	ND	0.0201J	mg/l	NC		20
Barium, TCLP	0.0662J	0.0687J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	0.0609J	0.0665J	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 20 QC Batch ID: WG1801962-4 QC Sample: L2338995-01 Client ID: DUP Sample						
Mercury, TCLP	0.0009JB	0.0006J	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 17 QC Batch ID: WG1802651-4 QC Sample: L2339889-03 Client ID: DUP Sample						
Mercury, Total	0.073J	0.102	mg/kg	NC		20

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 QC Batch ID: WG1796177-6 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)						
Aluminum, Total	9710	10400	mg/kg	7		20
Barium, Total	455	478	mg/kg	5		20
Calcium, Total	21000	22500	mg/kg	7		20
Chromium, Total	83.6	89.1	mg/kg	7		20
Copper, Total	214	215	mg/kg	0		20
Lead, Total	658	657	mg/kg	0		20
Magnesium, Total	2910	3170	mg/kg	9		20
Manganese, Total	802	864	mg/kg	8		20
Zinc, Total	2240	2540	mg/kg	13		20
Total Metals - Mansfield Lab Associated sample(s): 08,12-15,19-22 QC Batch ID: WG1796177-6 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)						
Iron, Total	53400	53200	mg/kg	0		20
Total Metals - Mansfield Lab Associated sample(s): 09-11,16-18,23-25 QC Batch ID: WG1800887-6 QC Sample: L2338616-01 Client ID: DUP Sample						
Chromium, Total	16.2	17.7	mg/kg	9		20
Copper, Total	11.1	11.8	mg/kg	6		20
Zinc, Total	92.0	96.9	mg/kg	5		20

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2335541
Report Date: 07/19/23

Parameter	Native Sample	Serial Dilution	Units	% D	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,05,07 QC Batch ID: WG1801296-6 QC Sample: L2338623-01 Client ID: DUP Sample					
Barium, Total	0.1626	0.1467	mg/l	10	20
Calcium, Total	140.	125.	mg/l	11	20
Iron, Total	42.0	38.5	mg/l	8	20
Magnesium, Total	26.4	22.6	mg/l	14	20
Manganese, Total	1.773	1.622	mg/l	9	20
Potassium, Total	27.3	24.2	mg/l	11	20
Sodium, Total	150.	128.	mg/l	15	20

INORGANICS
&
MISCELLANEOUS

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-08
Client ID: 8B-1N (5.0-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 11:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.7		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-09
Client ID: 8B-1NN (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 12:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-10
Client ID: 8B-1NN (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 12:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.1		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-11
Client ID: 8B-1NN (6.0-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 12:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.7		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-12
Client ID: 8B-1E (6.0-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 10:50
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-13
Client ID: 8B-1S (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:55
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-14
Client ID: 8B-1S (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 10:00
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-15
Client ID: 8B-1S (6.5-7.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.3		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-16
Client ID: 8B-1SS (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:20
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-17
Client ID: 8B-1SS (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:25
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.5		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-18
Client ID: 8B-1SS (6.5-7.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-19
Client ID: 8B-1W (1.5-2.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-20
Client ID: 8B-1W (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.1		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-21
Client ID: 8B-1W (6.5-7.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	50.4		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-22
Client ID: 8B-1W (6.5-7.0) DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.1		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-23
Client ID: 8B-1WW (1.0-1.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 11:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.5		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-24
Client ID: 8B-1WW (4.5-5.0)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 11:50
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.6		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-25
Client ID: 8B-1WW (6.0-6.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 12:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.2		%	0.100	NA	1	-	07/08/23 13:24	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-26
Client ID: 7-B1W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.1		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-27
Client ID: 7-B1W (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:55
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-28
Client ID: 7-B1W (6.5-7)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-29
Client ID: 7-B1WW (1-1.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-30
Client ID: 7-B1WW (4-4.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.9		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-31
Client ID: 7-B1WW (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 08:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.3		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-32
Client ID: 7-B1E (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.9		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-33
Client ID: 7-B1E (4-4.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:20
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-34
Client ID: 7-B1E (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:25
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.1		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-35
Client ID: 7-B1N (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.5		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-36
Client ID: 7-B1N (4-4.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 09:35
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.3		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-40
Client ID: 7-B1S (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:20
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.0		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-41
Client ID: 7-B1S (4-4.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 10:25
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-42
Client ID: 7-B1S (5.5-6)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 10:30
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.8		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-44
Client ID: 7-B1SS (5-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 11:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.6		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-45
Client ID: 10-B6W (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 12:00
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-46
Client ID: 10-B6W (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 12:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-47
Client ID: 10-B6W (7.5-8)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/20/23 12:10
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-49
Client ID: 10-B6WW (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 13:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.7		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-50
Client ID: 10-B6WW (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 13:10
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-51
Client ID: 10-B6N (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153
Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-52
Client ID: 10-B6N (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Sample Depth:
Matrix: Soil
Date Collected: 06/20/23 13:35
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.1		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-53
Client ID: 10-B6N (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 13:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.1		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-54
Client ID: 10-B6E (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:20
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-55
Client ID: 10-B6E (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:25
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-56
Client ID: 10-B6E (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-58
Client ID: 10-B6EE (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:05
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-59
Client ID: 10-B6EE (5-5.5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:10
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.2		%	0.100	NA	1	-	06/30/23 18:26	121,2540G	RJF

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-60
Client ID: 10-B6S (1.5-2)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:40
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.9		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-61
Client ID: 10-B6S (4.5-5)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:45
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

SAMPLE RESULTS

Lab ID: L2335541-62
Client ID: 10-B6S (9.5-10)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 06/20/23 14:50
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	06/22/23 12:08	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: ES22-387153

Lab Number: L2335541

Report Date: 07/19/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 08,12-15,19-22,26-28,32-35 QC Batch ID: WG1794681-1 QC Sample: L2335541-21 Client ID: 8B-1W (6.5-7.0)						
Solids, Total	50.4	57.1	%	12		20
General Chemistry - Westborough Lab Associated sample(s): 36,40-42,45-47,51-56,60-62 QC Batch ID: WG1794686-1 QC Sample: L2335541-36 Client ID: 7-B1N (4-4.5)						
Solids, Total	76.3	76.4	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 29-31,44,49-50,58-59 QC Batch ID: WG1798529-1 QC Sample: L2335286-23 Client ID: DUP Sample						
Solids, Total	80.7	81.2	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 09-11,16-18,23-25 QC Batch ID: WG1800906-1 QC Sample: L2335541-09 Client ID: 8B-1NN (1.5-2.0)						
Solids, Total	87.4	87.6	%	0		20

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-01A	Plastic 250ml unpreserved	C	NA		2.8	Y	Absent		-
L2335541-01B	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		TL-6020T(180),BA-6020T(180),SE-6020T(180),FE-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),AG-6020T(180),HG-T(28),AL-6020T(180),CD-6020T(180),MG-6020T(180),CO-6020T(180)
L2335541-01X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		K-6020S(180),V-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),ZN-6020S(180),CO-6020S(180),MG-6020S(180),CA-6020S(180),FE-6020S(180),CR-6020S(180),BA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),NA-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2335541-02A	Plastic 250ml unpreserved	C	NA		2.8	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2335541-02B	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		HOLD-METAL-TOTAL(180)
L2335541-02X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2335541-03A	Plastic 250ml unpreserved	C	NA		2.8	Y	Absent		-
L2335541-03B	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		TL-6020T(180),SE-6020T(180),BA-6020T(180),FE-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),MG-6020T(180),CD-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-03X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		K-6020S(180),SE-6020S(180),CU-6020S(180),V-6020S(180),MN-6020S(180),CO-6020S(180),BE-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),TL-6020S(180),NI-6020S(180),NA-6020S(180),BA-6020S(180),PB-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2335541-04A	Plastic 250ml unpreserved	C	NA		2.8	Y	Absent		-
L2335541-04B	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		BA-6020T(180),SE-6020T(180),FE-6020T(180),TL-6020T(180),K-6020T(180),CR-6020T(180),CA-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),MG-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),CD-6020T(180),CO-6020T(180)
L2335541-04X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		SE-6020S(180),V-6020S(180),CU-6020S(180),K-6020S(180),MN-6020S(180),CO-6020S(180),MG-6020S(180),BE-6020S(180),ZN-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),BA-6020S(180),PB-6020S(180),NA-6020S(180),TL-6020S(180),NI-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),HG-S(28),CD-6020S(180),AL-6020S(180)
L2335541-05A	Plastic 250ml unpreserved	C	NA		2.8	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2335541-05B	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		HOLD-METAL-TOTAL(180)
L2335541-05X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2335541-06A	Plastic 250ml unpreserved	C	NA		2.8	Y	Absent		-
L2335541-06B	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),CR-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),AG-6020T(180),MG-6020T(180),HG-T(28),CD-6020T(180),AL-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-06X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		K-6020S(180),V-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),ZN-6020S(180),MG-6020S(180),CR-6020S(180),FE-6020S(180),CA-6020S(180),TL-6020S(180),NI-6020S(180),PB-6020S(180),BA-6020S(180),NA-6020S(180),AS-6020S(180),SB-6020S(180),AG-6020S(180),AL-6020S(180),HG-S(28),CD-6020S(180)
L2335541-07A	Plastic 250ml unpreserved	C	NA		2.8	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2335541-07B	Plastic 250ml HNO3 preserved	C	<2	<2	2.8	Y	Absent		HOLD-METAL-TOTAL(180)
L2335541-07X	Plastic 120ml HNO3 preserved Filtrates	C	NA		2.8	Y	Absent		HOLD-METAL-DISSOLVED(180)
L2335541-08A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2335541-08B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-09A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-09B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-10A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-10B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-11A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-11B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-12A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2335541-12B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-13A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2335541-13B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-14A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2335541-14B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-15A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2335541-15B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-16A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-16B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-17B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-18A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-18B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-19A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2335541-19B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-20A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2335541-20B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-20X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2335541-20X9	Tumble Vessel	A	NA		4.9	Y	Absent		-

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-21A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2335541-21A1	Glass 60ml unpreserved split	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2335541-21A2	Glass 60ml unpreserved split	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2335541-21B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-21B1	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-21B2	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-21X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2335541-21X1	Plastic 120ml HNO3 preserved Extracts	A	NA		4.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2335541-21X2	Plastic 120ml HNO3 preserved Extracts	A	NA		4.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2335541-21X9	Tumble Vessel	A	NA		4.9	Y	Absent		-
L2335541-22A	Glass 60ml unpreserved split	A	NA		4.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2335541-22B	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L2335541-23A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-23B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-24A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-24B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-25A	Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2335541-25B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2335541-26A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2335541-26B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2335541-26C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2335541-26D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-26X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2335541-26Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2335541-26Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2335541-27A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-27B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-27C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-27D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-27X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-27Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14)
L2335541-27Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14)
L2335541-28A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-28B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-28C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-28D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-28X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-28Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14)
L2335541-28Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14)
L2335541-29A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-29B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-29C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-29D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-29X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-29Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:02	NYTCL-8260HLW(14)
L2335541-29Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:02	NYTCL-8260HLW(14)
L2335541-30A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-30B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-30C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-30D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-30X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-30Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:02	NYTCL-8260HLW(14)
L2335541-30Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:02	NYTCL-8260HLW(14)
L2335541-31A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-31B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-31C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-31D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-31X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-31Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:02	NYTCL-8260HLW(14)
L2335541-31Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:02	NYTCL-8260HLW(14)
L2335541-32A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-32B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-32C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-32D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-32X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-32Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14)
L2335541-32Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 08:42	NYTCL-8260HLW(14)
L2335541-33A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-33B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-33C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-33D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-33X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-33Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-33Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-34A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-34B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-34C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-34D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-34X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-34Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-34Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-35A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-35B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-35C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-35D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-35X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-35Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-35Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-36A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-36B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-36C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-36D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-36X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-36Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-36Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-37A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-37B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-37C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-37D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-37X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-37Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-37Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-38A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-38B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-38C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-38D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-38X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-38Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-38Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-39A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-39B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-39C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-39D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-39X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-39Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-39Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-40A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-40B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-40C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-40D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-40X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-40Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-40Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-41A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-41B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-41C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-41D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-41X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-41Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-41Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-42A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-42B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-42C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-42D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-42X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-42Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-42Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-43A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-43B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-43C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-43D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-43X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-43Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-43Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-44A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-44B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-44C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-44D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-44X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-44Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-44Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-45A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-45B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-45C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-45D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-45X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-45Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-45Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-46A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-46B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-46C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-46D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-46X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-46Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-46Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-47A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-47B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-47C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-47D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-47X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-47Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-47Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-48A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-48B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-48C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-48D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-48X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-48Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-48Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-49A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-49B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-49C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-49D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-49X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-49Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-49Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-50A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-50B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-50C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-50D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-50X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-50Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-50Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-51A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2335541-51B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2335541-51C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2335541-51D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-51X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2335541-51Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2335541-51Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2335541-52A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-52B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-52C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-52D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-52X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-52Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-52Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-53A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-53B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-53C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-53D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-53X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-53Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-53Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-54A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-54B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-54C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-54D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-54X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-54Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-54Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-55A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-55B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-55C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-55D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-55X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-55Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-55Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-56A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-56B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-56C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-56D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-56X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-56Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-56Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-57A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-57B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-57C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-57D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-57X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-57Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-57Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-58A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-58B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-58C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-58D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-58X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-58Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-58Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-59A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-59B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-59C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-59D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-59X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-59Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-59Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-60A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-60B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-60C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-60D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-60X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-60Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-60Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-61A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-61B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-61C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-61D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-61X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-61Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-61Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-62A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-62B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-62C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-62D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		TS(7)
L2335541-62X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L2335541-62Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-62Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	NYTCL-8260HLW(14)
L2335541-63A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-63B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-63C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-63D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-63X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-63Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-63Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-64A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-64B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-64C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-64D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-64X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-64Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-64Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-65A	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-65B	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-65C	5 gram Encore Sampler	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)
L2335541-65D	Plastic 2oz unpreserved for TS	B	NA		2.5	Y	Absent		HOLD-WETCHEM()
L2335541-65X	Vial MeOH preserved split	B	NA		2.5	Y	Absent		HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: ES22-387153

Lab Number: L2335541
Report Date: 07/19/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335541-65Y	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)
L2335541-65Z	Vial Water preserved split	B	NA		2.5	Y	Absent	22-JUN-23 09:13	HOLD-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	AVANT GARDNER	**Lab Number:**	L2335541
Project Number:	ES22-387153	**Report Date:**	07/19/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2335541
Project Number:	ES22-387153	**Report Date:**	07/19/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2335541
Project Number:	ES22-387153	**Report Date:**	07/19/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2335541
Project Number:	ES22-387153	**Report Date:**	07/19/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
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FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 7

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335541

Client Information

Client: PARTNER
Address: 611 Industrial Way West
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLent@partnereesi.com

Project Information

Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn, NY
Project #: ES22-387153
(Use Project name as Project #) ☒
Project Manager: David Lent
ALPHAQuote #: —

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO # ES22-387153

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

H = HOLD X = RUN

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TAL Metals	Total / Dissolved Metals	TCLP Metals	Total Bottle	Sample Specific Comments
35541-01	8B-1N-GW	6-20-23	1200	GW	AH/DC		X			
-02	8B-1NN-GW	6-20-23	1400	GW			H			
-03	8B-1E-GW	6-20-23	1300	GW			X			
-04	8B-1S-GW	6-20-23	1100	GW			X			
-05	8B-1SS-GW	6-20-23	1000	GW			H			
-06	8B-1W-GW	6-20-23	915	GW			X			
-07	8B-1NW-GW	6-20-23	1330	GW			H			
-08	8B-1N (5.0-5.5)	6-20-23	1115	SOIL		X		H		
-09	8B-1NN (1.5-2.0)	6-20-23	1230	SOIL		H		H		
-10	8B-1NN (4.5-5.0)	6-20-23	1235	SOIL	↓	H		H		

Container Type: A P A
Preservative: A A/C A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6/20/23 1700		6/21/23 11:30
	6/21/23 19:20		6/21 2100
	6/22 0130		6/22 0130
	6/22 0330		6/22/23 0330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 7

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335541

Client Information
Client: Partner
Address: 611 Industrial Way W
Eatontown, NJ
Phone: 732-380-1700
Fax: 732-380-1701
Email: Dlent@partnereslcom.

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave Brooklyn NY
Project # ES22-387153
(Use Project name as Project #) ☒
Project Manager: David Lent.
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO # ES22-387153

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☒ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

X = RUN H = HOLD

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TAL metals	TCLP metals	Total Bottle	Sample Specific Comments
35541-11	SB-BH/NN (6.0-6.5)	6-20-23	1240	SOIL	AHR	H	H		
-12	SB-1E (6.0-6.5)		1050			X	H		
-13	SB-1S (1.5-2.0)		955			X	H		
-14	SB-1S (4.5-5.0)		1000			X	H		
-15	SB-1S (6.5-7.0)		1005			X	H		
-16	SB-1SS (1.5-2.0)		1020			H	H		
-17	SB-1SS (4.5-5.0)		1025			H	H		
-18	SB-1SS (6.5-7.0)		1030			H	H		
-19	SB-1W (1.5-2.0)		935			X	H		
-20	SB-1W (4.5-5.0)		940			X	H		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A
Preservative	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	6-20-23 1700		6/21/23 14:30
	6/21/23 1920		6/21 2100
	6/22 0130		6/22 0130
	6/22 0330		6/22/23 03:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
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Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
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Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 3 of 7

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335541

Client Information

Client: Partner
Address: 611 Industrial Way West, Eatontown, NJ
Phone: 732-380-1700
Fax: 732-380-1701
Email: dlent@partnereng.com

Project Information

Project Name: Avant Gardner
Project Location: 140 Stewart Ave Brooklyn NY
Project #: ES22-357153
(Use Project name as Project #) ☒
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO # ES22-357153

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

X = RUN H = HOLD

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TAL metals	TCL metals	TCL VOCs	Total Bottle	Sample Specific Comments
35541-21	SB-1W (6.5-7.0)	6/2023	945	Soil	AM/BC	X	H			
-21	SB-1W (6.5-7.0) MSD		945			X	H			
-22	SB-1W (6.5-7.0) DUP		945			X	H			
-21	SB-1W (6.5-7.0) MS		945			X	H			
-23	SB-1WW (1.0-1.5)		1145			H	H			
-24	SB-1WW (4.5-5.0)		1150			H	H			
-25	SB-1WW (6.0-6.5)		1200			H	H			
-26	7-B1W (1.5-2)		850					X		
-27	7-B1W (4.5-5)		855					X		
-28	7-B1W (6.5-7)		900					X		

Container Type: A A P
Preservative: A A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6/20/23 1700		6/21/23 14:30
	6/21/23 1920		6/21 2100
	6/22 0130		6/22 0130
	6/22 0330		6/22/23 03:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

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Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 4 of 7

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335541

Client Information
Client: Partner
Address: 61 Industrial Way West Eatontown, NJ 07724
Phone: 732-380-1200
Fax: 732-380-1701
Email: DLane@partnersgcm.com

Project Information
Project Name: Aunt Gardner
Project Location: ~~[illegible]~~ 140 Stewart Ave Brooklyn NY
Project # ES22-
(Use Project name as Project #) ☒
Project Manager: David Lane
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO # ES22-387153.

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☒ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

X = RUN H = HOLD

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	Sample Specific Comments	Total Bottle
35541-29	7-BIWW (1-4.5)	6.20.23	830	SO.1	AH	H		
-30	7-BIWW (4-4.5)		835			H		
-31	7-BIWW (4.5-5)		840			H		
-32	7-BIE (1.5-2)		915			X		
-33	7-BIE (4-4.5)		920			X		
-34	7-BIE (5.5-6)		925			X		
-35	7-BIN (1.5-2)		930			X		
-36	7-BIN (4-4.5)		935			X		
-37	7-BINN (1.5-2)		1000			H		
-38	7-BINN (4-4.5)		1005			H		

Container Type: E E
Preservative: A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6-20-23 1700		6/21/23 14:30
	6/21/23 1920		6/21 2100
	6/22 0130		6/22 0330
	6/22 0330		6/22/23 03:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
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Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 5 of 7

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335541

Client Information
Client: Partner
Address: 611 Industrial Way West, Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-7701
Email: ALenteparthenon

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project #: ES22-387153
(Use Project name as Project #) ☒
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO # ES22-387153

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility: ☒ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

X = RUN H = HOLD

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	Total Bottle	Sample Specific Comments
35541-39	7-BINN (5.5-6)	6-20-23	1010	Soil	AH	H		
-40	7-B1S (1.5-2)		1020			X		
-41	7-B1S (4-4.5)		1025			X		
-42	7-B1S (5.5-6)		1030			X		
-43	7-B1SS (1.5-2		1135			H		
-44	7-B1SS (5-5.5)		1140			H		
-45	10-B6W (1.5-2)		1200			X		
-46	10-B6W (4.5-5)		1205			X		
-47	10-B6W (7.5-8)		1210			X		
-48	10-B6WW (1.5-2)		1300			H		

Container Type: E
Preservative: A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6-20-23 1200		6/21/23 1430
	6/21/23 1520	MAS	6/21 2100
MAS	6/22/23 0130		6/22 0130
	6/22 0330		6/22/23 03:30

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ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

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Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

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Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 6 of 7

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335541

Client Information
Client: Partner
Address: 611 Industrial Way W2, Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: Dent@partnereslcm.com

Project Information
Project Name: Avant Garden
Project Location: 140 Stewart Ave, Bklyn NY
Project #: ES22-387153
(Use Project name as Project #) ☒
Project Manager: Daniel Lent
ALPHAQuote #: ____

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO # ES22-387153

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☒ NJ ☑ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

X= RUN H= HOLD

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	Sample Specific Comments	Total Bottle
35541-49	10-B6WW (4.5-5)	6-20	1305	SO1	AH	H		
-50 ~~-48~~	10-B6WW (9.5-10)		1310			H		
(MS/MSD 6/22) -51	10-B6N (1.5-2)		1330			X		
-52 ~~-51~~	10-B6N (4.5-5)		1335			X		
-53	10-B6N (9.5-10)		1340			X		
-54	10-B6E (1.5-2)		1420			X		
-55	10-B6E (4.5-5)		1425			X		
-56	10-B6E (9.5-10)		1430			X		
-57	10-B6EE (1.5-2)		1400			H		
-58	10-B6EE (4.5-5)		1405			H		

Container Type: F
Preservative: X

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6/22-23 1700		6/22/23 1420
	6/22/23 19:20		6/23 2100
	6/23 0330		6/23 0330
	6/23 0330	Taylor Dellicker	6/23/23 03:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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Page 7 of 7

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335541

Client Information

Client: Partner
Address: 611 Industrial Way W
Eatontown, NJ 07724
Phone: 732-350-7200
Fax: 732-350-7701
Email: Dle@partnereng.com

Project Information

Project Name: PARTNER.
Project Location: 140 Stewart Ave, Brooklyn NY
Project # E22-357153.
(Use Project name as Project #) ☒
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO # E522-357153

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☒ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

H = HOLD X = RUN

Please specify Metals or TAL.

ANALYSIS

TCL VOC;

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC;	Sample Specific Comments
35541-59	10-B6EE(5-5.5)	6/20/23	1410	SO1	AH	H	
-60	10-B65 (1.5-2)		1440			X	
-61	10-B65 (4.5-5)		1445			X	
-62	10-B65 (9.5-10)		1450			X	
-63	10-B655 (1.5-2)		1500			H	
-64	10-B655 (4.5-5)		1505			H	
-65	10-B655 (9.5-10)		1510			H	

Container Type: E
Preservative: A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6-20-23 1700		6/21/23 1430
	6/21/23 1920	NW	6/21 2100
NW	6/22 0130		6/22 0130
	6/22 0330	Jenny Dellucky	6/22/23 03:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

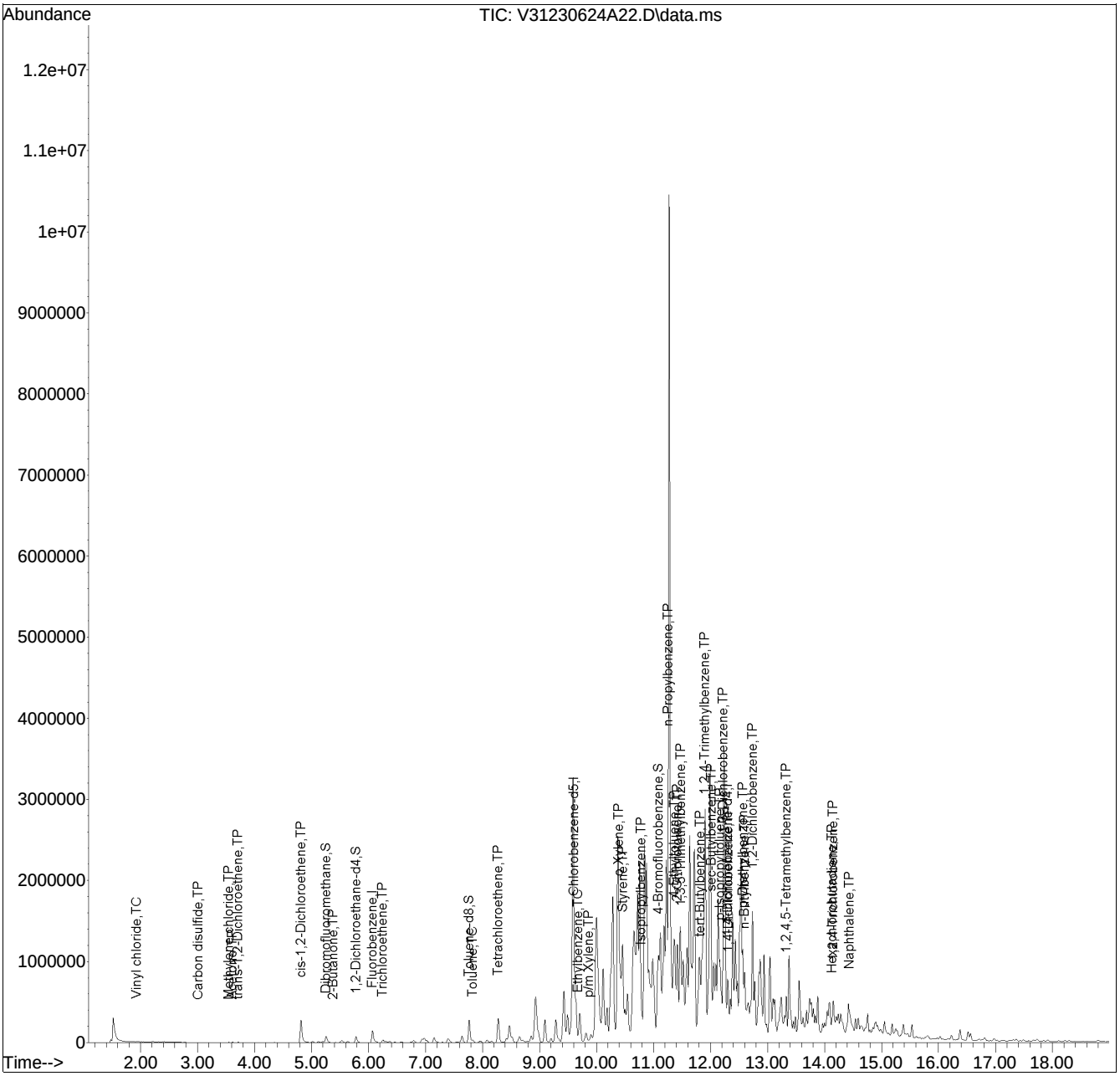
Form No: 01-25 HC (rev. 30-Sept-2013)

Quantitation Report (QT Reviewed)

Data Path : K:\VOA131\2023\230624A\
Data File : V31230624A22.D
Acq On : 24 Jun 2023 03:35 pm
Operator : VOA131:LAC
Sample : L2335541-34,31H,6.09,5,0.100,,X
Misc : WG1797202,ICAL19865
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 27 16:42:43 2023
Quant Method : K:\VOA131\2023\230624A\V31_230328A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Mar 29 10:40:23 2023
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox230624A01.D•



ANALYTICAL REPORT

Lab Number:	L2335538
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER-WC
Project Number:	ES22-387153
Report Date:	07/12/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2335538-01	WC-8	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:15	06/21/23
L2335538-02	WC-8	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:15	06/21/23
L2335538-03	WC-7/10	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:30	06/21/23
L2335538-04	WC-7/10	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:30	06/21/23

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Total Metals was subcontracted. A copy of the laboratory report is included as an addendum.

Please note: This data is only available in PDF format and is not available on Data Merger.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 07/12/23

ORGANICS

VOLATILES

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 Date Collected: 06/20/23 13:15
Client ID: WC-8 Date Received: 06/21/23
Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/03/23 17:16
Analyst: JIC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	420	190	1
1,1-Dichloroethane	100		ug/kg	84	12.	1
Chloroform	270		ug/kg	130	12.	1
Carbon tetrachloride	ND		ug/kg	84	19.	1
1,2-Dichloropropane	ND		ug/kg	84	10.	1
Dibromochloromethane	ND		ug/kg	84	12.	1
1,1,2-Trichloroethane	ND		ug/kg	84	22.	1
Tetrachloroethene	41000	E	ug/kg	42	16.	1
Chlorobenzene	ND		ug/kg	42	11.	1
Trichlorofluoromethane	ND		ug/kg	340	59.	1
1,2-Dichloroethane	ND		ug/kg	84	22.	1
1,1,1-Trichloroethane	ND		ug/kg	42	14.	1
Bromodichloromethane	ND		ug/kg	42	9.2	1
trans-1,3-Dichloropropene	ND		ug/kg	84	23.	1
cis-1,3-Dichloropropene	ND		ug/kg	42	13.	1
1,3-Dichloropropene, Total	ND		ug/kg	42	13.	1
1,1-Dichloropropene	ND		ug/kg	42	13.	1
Bromoform	ND		ug/kg	340	21.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	42	14.	1
Benzene	69		ug/kg	42	14.	1
Toluene	130		ug/kg	84	46.	1
Ethylbenzene	93		ug/kg	84	12.	1
Chloromethane	ND		ug/kg	340	79.	1
Bromomethane	ND		ug/kg	170	49.	1
Vinyl chloride	96		ug/kg	84	28.	1
Chloroethane	ND		ug/kg	170	38.	1
1,1-Dichloroethene	33	J	ug/kg	84	20.	1
trans-1,2-Dichloroethene	800		ug/kg	130	12.	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 Date Collected: 06/20/23 13:15

Client ID: WC-8 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	11000		ug/kg	42	12.	1
1,2-Dichlorobenzene	31	J	ug/kg	170	12.	1
1,3-Dichlorobenzene	ND		ug/kg	170	12.	1
1,4-Dichlorobenzene	15	J	ug/kg	170	14.	1
Methyl tert butyl ether	ND		ug/kg	170	17.	1
p/m-Xylene	180		ug/kg	170	47.	1
o-Xylene	74	J	ug/kg	84	24.	1
Xylenes, Total	250	J	ug/kg	84	24.	1
cis-1,2-Dichloroethene	5600		ug/kg	84	15.	1
1,2-Dichloroethene, Total	6400		ug/kg	84	12.	1
Dibromomethane	ND		ug/kg	170	20.	1
Styrene	ND		ug/kg	84	16.	1
Dichlorodifluoromethane	ND		ug/kg	840	77.	1
Acetone	830	J	ug/kg	840	410	1
Carbon disulfide	ND		ug/kg	840	380	1
2-Butanone	ND		ug/kg	840	190	1
Vinyl acetate	ND		ug/kg	840	180	1
4-Methyl-2-pentanone	ND		ug/kg	840	110	1
1,2,3-Trichloropropane	ND		ug/kg	170	11.	1
2-Hexanone	ND		ug/kg	840	100	1
Bromochloromethane	ND		ug/kg	170	17.	1
2,2-Dichloropropane	ND		ug/kg	170	17.	1
1,2-Dibromoethane	ND		ug/kg	84	24.	1
1,3-Dichloropropane	ND		ug/kg	170	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	42	11.	1
Bromobenzene	ND		ug/kg	170	12.	1
n-Butylbenzene	25	J	ug/kg	84	14.	1
sec-Butylbenzene	18	J	ug/kg	84	12.	1
tert-Butylbenzene	ND		ug/kg	170	10.	1
o-Chlorotoluene	ND		ug/kg	170	16.	1
p-Chlorotoluene	ND		ug/kg	170	9.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	84.	1
Hexachlorobutadiene	ND		ug/kg	340	14.	1
Isopropylbenzene	20	J	ug/kg	84	9.2	1
p-Isopropyltoluene	110		ug/kg	84	9.2	1
Naphthalene	340		ug/kg	340	55.	1
Acrylonitrile	ND		ug/kg	340	97.	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 Date Collected: 06/20/23 13:15

Client ID: WC-8 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	41	J	ug/kg	84	14.	1
1,2,3-Trichlorobenzene	ND		ug/kg	170	27.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	23.	1
1,3,5-Trimethylbenzene	44	J	ug/kg	170	16.	1
1,2,4-Trimethylbenzene	95	J	ug/kg	170	28.	1
1,4-Dioxane	ND		ug/kg	6800	3000	1
p-Diethylbenzene	ND		ug/kg	170	15.	1
p-Ethyltoluene	120	J	ug/kg	170	32.	1
1,2,4,5-Tetramethylbenzene	20	J	ug/kg	170	16.	1
Ethyl ether	ND		ug/kg	170	29.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	420	120	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	96		70-130

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 D
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/01/23 18:24
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	46000		ug/kg	1000	410	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04 Date Collected: 06/20/23 13:30
Client ID: WC-7/10 Date Received: 06/21/23
Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/01/23 19:06
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	340	160	1
1,1-Dichloroethane	ND		ug/kg	68	9.9	1
Chloroform	34	J	ug/kg	100	9.5	1
Carbon tetrachloride	ND		ug/kg	68	16.	1
1,2-Dichloropropane	ND		ug/kg	68	8.5	1
Dibromochloromethane	ND		ug/kg	68	9.5	1
1,1,2-Trichloroethane	ND		ug/kg	68	18.	1
Tetrachloroethene	3500		ug/kg	34	13.	1
Chlorobenzene	ND		ug/kg	34	8.6	1
Trichlorofluoromethane	ND		ug/kg	270	47.	1
1,2-Dichloroethane	ND		ug/kg	68	18.	1
1,1,1-Trichloroethane	ND		ug/kg	34	11.	1
Bromodichloromethane	ND		ug/kg	34	7.4	1
trans-1,3-Dichloropropene	ND		ug/kg	68	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	34	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	34	11.	1
1,1-Dichloropropene	ND		ug/kg	34	11.	1
Bromoform	ND		ug/kg	270	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	11.	1
Benzene	ND		ug/kg	34	11.	1
Toluene	45	J	ug/kg	68	37.	1
Ethylbenzene	13	J	ug/kg	68	9.6	1
Chloromethane	ND		ug/kg	270	63.	1
Bromomethane	ND		ug/kg	140	40.	1
Vinyl chloride	ND		ug/kg	68	23.	1
Chloroethane	ND		ug/kg	140	31.	1
1,1-Dichloroethene	ND		ug/kg	68	16.	1
trans-1,2-Dichloroethene	52	J	ug/kg	100	9.3	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04 Date Collected: 06/20/23 13:30

Client ID: WC-7/10 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	480		ug/kg	34	9.3	1
1,2-Dichlorobenzene	230		ug/kg	140	9.8	1
1,3-Dichlorobenzene	ND		ug/kg	140	10.	1
1,4-Dichlorobenzene	44	J	ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	41	J	ug/kg	140	38.	1
o-Xylene	ND		ug/kg	68	20.	1
Xylenes, Total	41	J	ug/kg	68	20.	1
cis-1,2-Dichloroethene	540		ug/kg	68	12.	1
1,2-Dichloroethene, Total	590	J	ug/kg	68	9.3	1
Dibromomethane	ND		ug/kg	140	16.	1
Styrene	16	J	ug/kg	68	13.	1
Dichlorodifluoromethane	ND		ug/kg	680	62.	1
Acetone	ND		ug/kg	680	330	1
Carbon disulfide	ND		ug/kg	680	310	1
2-Butanone	ND		ug/kg	680	150	1
Vinyl acetate	ND		ug/kg	680	150	1
4-Methyl-2-pentanone	ND		ug/kg	680	87.	1
1,2,3-Trichloropropane	ND		ug/kg	140	8.6	1
2-Hexanone	ND		ug/kg	680	80.	1
Bromochloromethane	ND		ug/kg	140	14.	1
2,2-Dichloropropane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	68	19.	1
1,3-Dichloropropane	ND		ug/kg	140	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	9.0	1
Bromobenzene	ND		ug/kg	140	9.9	1
n-Butylbenzene	15	J	ug/kg	68	11.	1
sec-Butylbenzene	16	J	ug/kg	68	9.9	1
tert-Butylbenzene	ND		ug/kg	140	8.0	1
o-Chlorotoluene	14	J	ug/kg	140	13.	1
p-Chlorotoluene	ND		ug/kg	140	7.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	68.	1
Hexachlorobutadiene	ND		ug/kg	270	12.	1
Isopropylbenzene	ND		ug/kg	68	7.4	1
p-Isopropyltoluene	26	J	ug/kg	68	7.4	1
Naphthalene	130	J	ug/kg	270	44.	1
Acrylonitrile	ND		ug/kg	270	78.	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04 Date Collected: 06/20/23 13:30

Client ID: WC-7/10 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	18	J	ug/kg	68	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	18.	1
1,3,5-Trimethylbenzene	31	J	ug/kg	140	13.	1
1,2,4-Trimethylbenzene	83	J	ug/kg	140	23.	1
1,4-Dioxane	ND		ug/kg	5400	2400	1
p-Diethylbenzene	87	J	ug/kg	140	12.	1
p-Ethyltoluene	45	J	ug/kg	140	26.	1
1,2,4,5-Tetramethylbenzene	20	J	ug/kg	140	13.	1
Ethyl ether	ND		ug/kg	140	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	340	97.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 13:47
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1799167-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 13:47
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1799167-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 13:47
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1799167-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 10:44
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,04 Batch: WG1800206-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 10:44
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,04 Batch: WG1800206-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	19	J	ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 10:44
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,04 Batch: WG1800206-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
Methylene chloride	87		89		70-130	2		30
1,1-Dichloroethane	93		94		70-130	1		30
Chloroform	92		96		70-130	4		30
Carbon tetrachloride	87		86		70-130	1		30
1,2-Dichloropropane	87		89		70-130	2		30
Dibromochloromethane	82		84		70-130	2		30
1,1,2-Trichloroethane	88		91		70-130	3		30
Tetrachloroethene	77		79		70-130	3		30
Chlorobenzene	83		85		70-130	2		30
Trichlorofluoromethane	83		86		70-139	4		30
1,2-Dichloroethane	97		96		70-130	1		30
1,1,1-Trichloroethane	95		98		70-130	3		30
Bromodichloromethane	92		93		70-130	1		30
trans-1,3-Dichloropropene	84		88		70-130	5		30
cis-1,3-Dichloropropene	88		88		70-130	0		30
1,1-Dichloropropene	94		96		70-130	2		30
Bromoform	83		86		70-130	4		30
1,1,2,2-Tetrachloroethane	86		89		70-130	3		30
Benzene	92		93		70-130	1		30
Toluene	84		86		70-130	2		30
Ethylbenzene	88		90		70-130	2		30
Chloromethane	70		70		52-130	0		30
Bromomethane	102		102		57-147	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
Vinyl chloride	78		77		67-130	1		30
Chloroethane	78		77		50-151	1		30
1,1-Dichloroethene	78		82		65-135	5		30
trans-1,2-Dichloroethene	89		86		70-130	3		30
Trichloroethene	94		94		70-130	0		30
1,2-Dichlorobenzene	80		83		70-130	4		30
1,3-Dichlorobenzene	81		83		70-130	2		30
1,4-Dichlorobenzene	80		82		70-130	2		30
Methyl tert butyl ether	108		108		66-130	0		30
p/m-Xylene	85		87		70-130	2		30
o-Xylene	86		88		70-130	2		30
cis-1,2-Dichloroethene	87		87		70-130	0		30
Dibromomethane	87		89		70-130	2		30
Styrene	88		90		70-130	2		30
Dichlorodifluoromethane	83		82		30-146	1		30
Acetone	114		118		54-140	3		30
Carbon disulfide	76		77		59-130	1		30
2-Butanone	74		75		70-130	1		30
Vinyl acetate	76		74		70-130	3		30
4-Methyl-2-pentanone	86		89		70-130	3		30
1,2,3-Trichloropropane	92		96		68-130	4		30
2-Hexanone	74		76		70-130	3		30
Bromochloromethane	84		83		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
2,2-Dichloropropane	88		88		70-130	0		30
1,2-Dibromoethane	85		90		70-130	6		30
1,3-Dichloropropane	88		91		69-130	3		30
1,1,1,2-Tetrachloroethane	84		86		70-130	2		30
Bromobenzene	81		84		70-130	4		30
n-Butylbenzene	88		90		70-130	2		30
sec-Butylbenzene	87		89		70-130	2		30
tert-Butylbenzene	82		84		70-130	2		30
o-Chlorotoluene	102		105		70-130	3		30
p-Chlorotoluene	87		89		70-130	2		30
1,2-Dibromo-3-chloropropane	77		81		68-130	5		30
Hexachlorobutadiene	86		90		67-130	5		30
Isopropylbenzene	86		88		70-130	2		30
p-Isopropyltoluene	82		86		70-130	5		30
Naphthalene	77		81		70-130	5		30
Acrylonitrile	102		102		70-130	0		30
n-Propylbenzene	87		88		70-130	1		30
1,2,3-Trichlorobenzene	86		90		70-130	5		30
1,2,4-Trichlorobenzene	85		88		70-130	3		30
1,3,5-Trimethylbenzene	87		89		70-130	2		30
1,2,4-Trimethylbenzene	85		87		70-130	2		30
1,4-Dioxane	87		94		65-136	8		30
p-Diethylbenzene	81		82		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
p-Ethyltoluene	84		87		70-130	4		30
1,2,4,5-Tetramethylbenzene	81		84		70-130	4		30
Ethyl ether	87		91		67-130	4		30
trans-1,4-Dichloro-2-butene	88		97		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		110		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	106		105		70-130
Dibromofluoromethane	101		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
Methylene chloride	76		74		70-130	3		30
1,1-Dichloroethane	82		77		70-130	6		30
Chloroform	83		79		70-130	5		30
Carbon tetrachloride	79		73		70-130	8		30
1,2-Dichloropropane	84		83		70-130	1		30
Dibromochloromethane	91		92		70-130	1		30
1,1,2-Trichloroethane	84		86		70-130	2		30
Tetrachloroethene	87		80		70-130	8		30
Chlorobenzene	88		83		70-130	6		30
Trichlorofluoromethane	77		70		70-139	10		30
1,2-Dichloroethane	86		87		70-130	1		30
1,1,1-Trichloroethane	83		77		70-130	8		30
Bromodichloromethane	88		87		70-130	1		30
trans-1,3-Dichloropropene	92		92		70-130	0		30
cis-1,3-Dichloropropene	93		92		70-130	1		30
1,1-Dichloropropene	83		75		70-130	10		30
Bromoform	87		87		70-130	0		30
1,1,2,2-Tetrachloroethane	84		86		70-130	2		30
Benzene	84		80		70-130	5		30
Toluene	83		78		70-130	6		30
Ethylbenzene	86		79		70-130	8		30
Chloromethane	79		74		52-130	7		30
Bromomethane	93		84		57-147	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
Vinyl chloride	76		69		67-130	10		30
Chloroethane	80		75		50-151	6		30
1,1-Dichloroethene	81		72		65-135	12		30
trans-1,2-Dichloroethene	85		79		70-130	7		30
Trichloroethene	81		77		70-130	5		30
1,2-Dichlorobenzene	84		82		70-130	2		30
1,3-Dichlorobenzene	87		83		70-130	5		30
1,4-Dichlorobenzene	88		84		70-130	5		30
Methyl tert butyl ether	98		100		66-130	2		30
p/m-Xylene	90		85		70-130	6		30
o-Xylene	89		84		70-130	6		30
cis-1,2-Dichloroethene	84		80		70-130	5		30
Dibromomethane	86		88		70-130	2		30
Styrene	94		90		70-130	4		30
Dichlorodifluoromethane	71		63		30-146	12		30
Acetone	81		80		54-140	1		30
Carbon disulfide	80		74		59-130	8		30
2-Butanone	83		83		70-130	0		30
Vinyl acetate	86		87		70-130	1		30
4-Methyl-2-pentanone	87		87		70-130	0		30
1,2,3-Trichloropropane	83		83		68-130	0		30
2-Hexanone	81		82		70-130	1		30
Bromochloromethane	90		89		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
2,2-Dichloropropane	86		78		70-130	10		30
1,2-Dibromoethane	90		92		70-130	2		30
1,3-Dichloropropane	86		85		69-130	1		30
1,1,1,2-Tetrachloroethane	88		85		70-130	3		30
Bromobenzene	83		80		70-130	4		30
n-Butylbenzene	89		82		70-130	8		30
sec-Butylbenzene	80		73		70-130	9		30
tert-Butylbenzene	78		73		70-130	7		30
o-Chlorotoluene	95		78		70-130	20		30
p-Chlorotoluene	86		82		70-130	5		30
1,2-Dibromo-3-chloropropane	84		85		68-130	1		30
Hexachlorobutadiene	83		75		67-130	10		30
Isopropylbenzene	82		76		70-130	8		30
p-Isopropyltoluene	85		78		70-130	9		30
Naphthalene	82		83		70-130	1		30
Acrylonitrile	82		81		70-130	1		30
n-Propylbenzene	84		77		70-130	9		30
1,2,3-Trichlorobenzene	85		83		70-130	2		30
1,2,4-Trichlorobenzene	95		92		70-130	3		30
1,3,5-Trimethylbenzene	86		80		70-130	7		30
1,2,4-Trimethylbenzene	85		81		70-130	5		30
1,4-Dioxane	88		88		65-136	0		30
p-Diethylbenzene	87		80		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
p-Ethyltoluene	85		80		70-130	6		30
1,2,4,5-Tetramethylbenzene	84		80		70-130	5		30
Ethyl ether	91		93		67-130	2		30
trans-1,4-Dichloro-2-butene	88		88		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		106		70-130
Toluene-d8	99		97		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	99		101		70-130

SEMIVOLATILES

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/03/23 03:15
Analyst: JG
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 10:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	170	22.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
Fluoranthene	1000		ug/kg	120	24.	1
Naphthalene	980		ug/kg	210	25.	1
Benzo(a)anthracene	560		ug/kg	120	24.	1
Benzo(a)pyrene	560		ug/kg	170	51.	1
Benzo(b)fluoranthene	990		ug/kg	120	35.	1
Benzo(k)fluoranthene	280		ug/kg	120	33.	1
Chrysene	710		ug/kg	120	22.	1
Acenaphthylene	360		ug/kg	170	32.	1
Anthracene	440		ug/kg	120	41.	1
Benzo(ghi)perylene	590		ug/kg	170	24.	1
Fluorene	130	J	ug/kg	210	20.	1
Phenanthrene	900		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	160		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	660		ug/kg	170	29.	1
Pyrene	800		ug/kg	120	21.	1
2-Methylnaphthalene	310		ug/kg	250	25.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	60		30-120
4-Terphenyl-d14	49		18-120

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/03/23 03:39
Analyst: EJL
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 10:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	55	J	ug/kg	150	20.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
Fluoranthene	560		ug/kg	120	22.	1
Naphthalene	82	J	ug/kg	190	24.	1
Benzo(a)anthracene	290		ug/kg	120	22.	1
Benzo(a)pyrene	270		ug/kg	150	47.	1
Benzo(b)fluoranthene	330		ug/kg	120	33.	1
Benzo(k)fluoranthene	96	J	ug/kg	120	31.	1
Chrysene	330		ug/kg	120	20.	1
Acenaphthylene	30	J	ug/kg	150	30.	1
Anthracene	120		ug/kg	120	38.	1
Benzo(ghi)perylene	180		ug/kg	150	23.	1
Fluorene	68	J	ug/kg	190	19.	1
Phenanthrene	460		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	45	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	180		ug/kg	150	27.	1
Pyrene	510		ug/kg	120	19.	1
2-Methylnaphthalene	78	J	ug/kg	230	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	62		30-120
4-Terphenyl-d14	44		18-120

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 06/30/23 11:58
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 06/27/23 10:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1796586-1					
Acenaphthene	ND		ug/kg	130	17.
2-Chloronaphthalene	ND		ug/kg	170	16.
Fluoranthene	ND		ug/kg	100	19.
Naphthalene	ND		ug/kg	170	20.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	41.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
2-Methylnaphthalene	ND		ug/kg	200	20.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	68		30-120
4-Terphenyl-d14	75		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1796586-2 WG1796586-3								
Acenaphthene	75		68		31-137	10		50
2-Chloronaphthalene	75		68		40-140	10		50
Fluoranthene	76		69		40-140	10		50
Naphthalene	76		70		40-140	8		50
Benzo(a)anthracene	80		72		40-140	11		50
Benzo(a)pyrene	87		80		40-140	8		50
Benzo(b)fluoranthene	79		72		40-140	9		50
Benzo(k)fluoranthene	81		73		40-140	10		50
Chrysene	79		73		40-140	8		50
Acenaphthylene	81		73		40-140	10		50
Anthracene	78		71		40-140	9		50
Benzo(ghi)perylene	81		73		40-140	10		50
Fluorene	75		68		40-140	10		50
Phenanthrene	76		70		40-140	8		50
Dibenzo(a,h)anthracene	81		73		40-140	10		50
Indeno(1,2,3-cd)pyrene	85		77		40-140	10		50
Pyrene	76		69		35-142	10		50
2-Methylnaphthalene	77		72		40-140	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1796586-2 WG1796586-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	91		84		23-120
2-Fluorobiphenyl	72		65		30-120
4-Terphenyl-d14	75		67		18-120

PETROLEUM HYDROCARBONS

Project Name: AVANT GARDNER-WC
Lab Number: L2335538
Project Number: ES22-387153
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 06/28/23 08:59
Analyst: SC
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	380000		ug/kg	41000	2300	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		40-140

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 07/02/23 14:24
Analyst: KJD
Percent Solids: 79%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	4100		ug/kg	3000	57.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		70-130
4-Bromofluorobenzene	84		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 06/28/23 09:50
Analyst: SC
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	93000		ug/kg	39000	2100	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	62		40-140

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 07/02/23 15:52
Analyst: KJD
Percent Solids: 86%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	15000		ug/kg	2600	50.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	98		70-130
4-Bromofluorobenzene	89		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 06/28/23 08:34
Analyst: SC

Extraction Method: EPA 3546
Extraction Date: 06/27/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL
Diesel Range Organics - Westborough Lab for sample(s): 01,03 Batch: WG1796899-1					
DRO (C10-C28)	2800	J	ug/kg	33000	1800

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	55		40-140

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 07/02/23 13:55
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 01,03 Batch: WG1799130-4					
Gasoline Range Organics	700	J	ug/kg	2500	48.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	101		70-130
4-Bromofluorobenzene	87		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab	Associated sample(s): 01,03		Batch: WG1796899-2					
DRO (C10-C28)	87		-		60-140	-		

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	70				40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab	Associated sample(s): 01,03		Batch: WG1799130-2 WG1799130-3					
Gasoline Range Organics	89		93		80-120	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	105		107		70-130
4-Bromofluorobenzene	91		93		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1799130-6 QC Sample: L2335538-01 Client ID: WC-8												
Gasoline Range Organics	4100	23600	25000	87		-	-		80-120	-		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	106				70-130
4-Bromofluorobenzene	93				70-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1796899-3 QC Sample: L2335538-01 Client ID: WC-8						
DRO (C10-C28)	380000	310000	ug/kg	20		20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		53		40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1799130-5 QC Sample: L2335538-01 Client ID: WC-8						
Gasoline Range Organics	4100	4100	ug/kg	0		20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		103		70-130
4-Bromofluorobenzene	84		91		70-130

PCBS

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/28/23 09:02
Analyst: ER
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 19:18
Cleanup Method: EPA 3665A
Cleanup Date: 06/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 06/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	58.0	5.15	1	A
Aroclor 1221	ND		ug/kg	58.0	5.81	1	A
Aroclor 1232	ND		ug/kg	58.0	12.3	1	A
Aroclor 1242	ND		ug/kg	58.0	7.82	1	A
Aroclor 1248	ND		ug/kg	58.0	8.70	1	A
Aroclor 1254	ND		ug/kg	58.0	6.34	1	A
Aroclor 1260	ND		ug/kg	58.0	10.7	1	A
Aroclor 1262	ND		ug/kg	58.0	7.36	1	A
Aroclor 1268	ND		ug/kg	58.0	6.01	1	A
PCBs, Total	ND		ug/kg	58.0	5.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/28/23 09:11
Analyst: ER
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 19:18
Cleanup Method: EPA 3665A
Cleanup Date: 06/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 06/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.2	4.90	1	A
Aroclor 1221	ND		ug/kg	55.2	5.53	1	A
Aroclor 1232	ND		ug/kg	55.2	11.7	1	A
Aroclor 1242	ND		ug/kg	55.2	7.44	1	A
Aroclor 1248	ND		ug/kg	55.2	8.28	1	A
Aroclor 1254	ND		ug/kg	55.2	6.04	1	A
Aroclor 1260	23.7	J	ug/kg	55.2	10.2	1	B
Aroclor 1262	ND		ug/kg	55.2	7.01	1	A
Aroclor 1268	ND		ug/kg	55.2	5.72	1	A
PCBs, Total	23.7	J	ug/kg	55.2	4.90	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/28/23 08:37
Analyst: ER

Extraction Method: EPA 3546
Extraction Date: 06/27/23 19:18
Cleanup Method: EPA 3665A
Cleanup Date: 06/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 06/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03 Batch: WG1796876-1						
Aroclor 1016	ND		ug/kg	47.6	4.23	A
Aroclor 1221	ND		ug/kg	47.6	4.77	A
Aroclor 1232	ND		ug/kg	47.6	10.1	A
Aroclor 1242	ND		ug/kg	47.6	6.42	A
Aroclor 1248	ND		ug/kg	47.6	7.14	A
Aroclor 1254	ND		ug/kg	47.6	5.21	A
Aroclor 1260	ND		ug/kg	47.6	8.80	A
Aroclor 1262	ND		ug/kg	47.6	6.05	A
Aroclor 1268	ND		ug/kg	47.6	4.93	A
PCBs, Total	ND		ug/kg	47.6	4.23	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	87		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG1796876-2 WG1796876-3									
Aroclor 1016	58		62		40-140	7		50	A
Aroclor 1260	54		58		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		74		30-150	A
Decachlorobiphenyl	65		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		77		30-150	B
Decachlorobiphenyl	79		85		30-150	B

METALS

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01 Date Collected: 06/20/23 13:15

Client ID: WC-8 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 06/23/23 03:26

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Barium, TCLP	0.460	J	mg/l	0.500	0.0210	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Lead, TCLP	0.122	J	mg/l	0.500	0.0270	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/23 12:33	07/05/23 12:22	EPA 7470A	1,7470A	GMG
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC

Project Name: AVANT GARDNER-WC
Lab Number: L2335538
Project Number: ES22-387153
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY
Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%
TCLP/SPLP Ext. Date: 06/23/23 03:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Barium, TCLP	0.224	J	mg/l	0.500	0.0210	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Lead, TCLP	0.0426	J	mg/l	0.500	0.0270	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/23 12:33	07/05/23 12:25	EPA 7470A	1,7470A	GMG
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01,03 Batch: WG1795975-1										
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Barium, TCLP	ND		mg/l	0.500	0.0210	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Lead, TCLP	ND		mg/l	0.500	0.0270	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 06/23/23 03:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01,03 Batch: WG1795976-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/23 12:33	06/27/23 08:24	1,7470A	GMG

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 06/23/23 03:26

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 Batch: WG1795975-2								
Arsenic, TCLP	102		-		75-125	-		20
Barium, TCLP	101		-		75-125	-		20
Cadmium, TCLP	104		-		75-125	-		20
Chromium, TCLP	104		-		75-125	-		20
Lead, TCLP	98		-		75-125	-		20
Selenium, TCLP	101		-		75-125	-		20
Silver, TCLP	102		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 Batch: WG1795976-2								
Mercury, TCLP	100		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795975-3 QC Sample: L2334865-01 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.23	102		-	-		75-125	-		20
Barium, TCLP	0.478J	20	20.6	103		-	-		75-125	-		20
Cadmium, TCLP	ND	0.53	0.543	102		-	-		75-125	-		20
Chromium, TCLP	ND	2	2.05	102		-	-		75-125	-		20
Lead, TCLP	0.258J	5.3	5.43	102		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.21	101		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.499	100		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795976-3 QC Sample: L2334941-01 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0246	98		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795975-4 QC Sample: L2334865-01 Client ID: DUP Sample						
Lead, TCLP	0.258J	0.258J	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795976-4 QC Sample: L2334941-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

SAMPLE RESULTS

Lab ID:	L2335538-01	Date Collected:	06/20/23 13:15
Client ID:	WC-8	Date Received:	06/21/23
Sample Location:	140 STEWART AVE, BROOKLYN NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/03/23 19:00	1,1030	GEF

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

SAMPLE RESULTS

Lab ID:	L2335538-03	Date Collected:	06/20/23 13:30
Client ID:	WC-7/10	Date Received:	06/21/23
Sample Location:	140 STEWART AVE, BROOKLYN NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/03/23 19:00	1,1030	GEF

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.9		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI
pH (H)	7.30		SU	-	NA	1	-	07/11/23 06:00	1,9045D	OCF
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:21	125,7.3	QJM
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:51	125,7.3	QJM
Paint Filter Liquid	Negative		-	0	NA	1	-	06/22/23 17:26	1,9095B	AAS

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI
pH (H)	8.00		SU	-	NA	1	-	07/11/23 06:00	1,9045D	OCF
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:21	125,7.3	QJM
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:52	125,7.3	QJM
Paint Filter Liquid	Negative		-	0	NA	1	-	06/22/23 17:26	1,9095B	AAS

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.7		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,03 Batch: WG1798695-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:44	125,7.3	QJM
General Chemistry - Westborough Lab for sample(s): 01,03 Batch: WG1798697-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:12	125,7.3	QJM

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03 Batch: WG1798695-2								
Sulfide, Reactive	71		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 Batch: WG1798697-2								
Cyanide, Reactive	78		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 Batch: WG1801607-1								
pH	100		-		99-101	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1794681-1 QC Sample: L2335541-21 Client ID: DUP Sample						
Solids, Total	50.4	57.1	%	12		20
General Chemistry - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1798695-3 QC Sample: L2334851-07 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1798697-3 QC Sample: L2334851-07 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1801607-2 QC Sample: L2337685-01 Client ID: DUP Sample						
pH	7.24	7.30	SU	1		5

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335538-01A	Vial Large Septa unpreserved (4oz)	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-01B	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		SUB-METALS 6010(180)
L2335538-01C	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),NYTCL-PAH(14),REACTS(14),TS(7),TPH-DRO(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2335538-01D	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),NYTCL-PAH(14),REACTS(14),TS(7),TPH-DRO(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2335538-01E	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),NYTCL-PAH(14),REACTS(14),TS(7),TPH-DRO(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2335538-01W	Plastic 120ml HNO3 preserved Extracts	A	NA		2.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2335538-01X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-01X9	Tumble Vessel	A	NA		2.9	Y	Absent		-
L2335538-02A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2335538-02X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02Y	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)
L2335538-02Z	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)
L2335538-03A	Vial Large Septa unpreserved (4oz)	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-03B	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		SUB-METALS 6010(180)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335538-03C	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-PAH(14),TPH-DRO(14),TS(7),PH-9045(1),PAINTF(),REACTCN(14),NYTCL-8082(365)
L2335538-03D	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-PAH(14),TPH-DRO(14),TS(7),PH-9045(1),PAINTF(),REACTCN(14),NYTCL-8082(365)
L2335538-03E	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-PAH(14),TPH-DRO(14),TS(7),PH-9045(1),PAINTF(),REACTCN(14),NYTCL-8082(365)
L2335538-03W	Plastic 120ml HNO3 preserved Extracts	A	NA		2.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2335538-03X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-03X9	Tumble Vessel	A	NA		2.9	Y	Absent		-
L2335538-04A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2335538-04X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04Y	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)
L2335538-04Z	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335536

Client Information
Client: PARTNER
Address: 611 Industrial Way West
Eatontown, NJ 07724
Phone: 732 389 1700
Fax: 732-389-1701
Email: DLent@partnereic.com

Project Information
Project Name: Avon Gardens - WC
Project Location: 140 Stewart Ave, Bradley Beach, NJ
Project #: E522-387153
(Use Project name as Project #) ☒
Project Manager: David Lent
ALPHAQuote #: —

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO # E522-387153

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☒ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TPH (8015B)	VOCs	PAHs	Total RCRA Metals	TCLP RCRA Metals	PCBs	Ignitability, Corrosivity, Reactivity	Paint Filter	Sample Specific Comments	Total Bottle
35538-01	WC-8	6-20-23	1315	SOIL	ABC	X		X	X	X	X	X	X		
02	WC-8	↓	1315	SOIL	BC		X								
03	WC-7/10		1330	SOIL	BC	X		X	X	X	X	X	X		
04	WC-7/10	↓	1330	SOIL	BC		X								

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	E	A	A	A	A	A	A	
Preservative	A	A	A	A	A	A	A	A	

Relinquished By:	Date/Time	Received By:	Date/Time
	6/22/23 1700		6/22/23 16:30
	6/22/23 1730		6/22 2100
	6/22/23 0130		6/22 0130
	6/22 0330		6/23 03:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

APL
AQUA PRO-TECH LABORATORIES
A Pace® Analytical Laboratory
1275 Bloomfield Avenue, Fairfield, NJ 07004 (973) 227-0422

ANALYTICAL RESULTS

STANDARD DELIVERABLES FORMAT

APL WORK ORDER NUMBER: 23F1150

Alpha Analytical Laboratories

Project: L2335538

Sudip Pradhan
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

Report Date: Jul 12, 2023

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

L2335538

Client: Alpha Analytical Laboratories **Contact:** Sub Reporting

APL Order ID: 23F1150 **Received:** 06/23/23 08:45

Sample ID/Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
23F1150-01 (Soil)	WC-8			Collected: 06/20/23 13:15				
General Chemistry								
Percent Solids	Gravimetric	06/23/23 18:41	06/26/23 10:30	**80.3**				**%**
23F1150-01 (Soil)	WC-8			Collected: 06/20/23 13:15				
Total Metals								
Arsenic	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**13.8**			**1.53**	**mg/kg dry**
Barium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**119**			**0.610**	**mg/kg dry**
Cadmium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**0.949**			**0.305**	**mg/kg dry**
Chromium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**24.2**			**0.305**	**mg/kg dry**
Lead	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**250**			**1.53**	**mg/kg dry**
Selenium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	ND	U		1.53	mg/kg dry
Silver	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**0.216**			**0.183**	**mg/kg dry**
Mercury	SW 846 7473	06/26/23 12:39	06/26/23 12:39	**6.25**			**0.0249**	**mg/kg dry**
23F1150-02 (Soil)	WC-7/10			Collected: 06/20/23 13:30				
General Chemistry								
Percent Solids	Gravimetric	06/23/23 18:41	06/26/23 10:30	**84.1**				**%**
23F1150-02 (Soil)	WC-7/10			Collected: 06/20/23 13:30				
Total Metals								
Arsenic	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**4.25**			**1.42**	**mg/kg dry**
Barium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**44.4**			**0.567**	**mg/kg dry**
Cadmium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**0.343**			**0.283**	**mg/kg dry**
Chromium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**34.0**			**0.283**	**mg/kg dry**
Lead	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**58.9**			**1.42**	**mg/kg dry**
Selenium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	ND	U		1.42	mg/kg dry
Silver	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**0.197**			**0.170**	**mg/kg dry**
Mercury	SW 846 7473	06/26/23 12:39	06/26/23 12:39	**0.888**			**0.0238**	**mg/kg dry**

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation
D1 - Sample was Decanted (Dissolved)

Subcontract Chain of Custody

Aqua Pro-Tech Laboratories (APL)
1275 Bloomfield Ave.
Bldg. 6
Fairfield, NJ 07004

Alpha Job Number
L2335538

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 508.439.5155
Email: mvitanza@alphalab.com

Project Information

Project Location: NY
Project Manager: Marty Vitanza

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:

Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2335538

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com TRCRA8, CATB

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
23F1150-01	WC-8	06-20-23 13:15	SOIL	Metals 6010	
-02	WC-7/10	06-20-23 13:30	SOIL	Metals 6010	

APL 23F1150
AQUA PRO-TECH LABORATORIES
www.aquaprotechlabs.com

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/22/23		6/22/23 17:30
		6/22/23 22:20		6/23/23 22:35
		6/23/23 8:45		6-23-23 7:30

Form No: AL_subcoc

ANALYTICAL REPORT

Lab Number:	L2335538
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER-WC
Project Number:	ES22-387153
Report Date:	07/12/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2335538-01	WC-8	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:15	06/21/23
L2335538-02	WC-8	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:15	06/21/23
L2335538-03	WC-7/10	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:30	06/21/23
L2335538-04	WC-7/10	SOIL	140 STEWART AVE, BROOKLYN NY	06/20/23 13:30	06/21/23

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Total Metals was subcontracted. A copy of the laboratory report is included as an addendum.

Please note: This data is only available in PDF format and is not available on Data Merger.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 07/12/23

ORGANICS

VOLATILES

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 Date Collected: 06/20/23 13:15
Client ID: WC-8 Date Received: 06/21/23
Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/03/23 17:16
Analyst: JIC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	420	190	1
1,1-Dichloroethane	100		ug/kg	84	12.	1
Chloroform	270		ug/kg	130	12.	1
Carbon tetrachloride	ND		ug/kg	84	19.	1
1,2-Dichloropropane	ND		ug/kg	84	10.	1
Dibromochloromethane	ND		ug/kg	84	12.	1
1,1,2-Trichloroethane	ND		ug/kg	84	22.	1
Tetrachloroethene	41000	E	ug/kg	42	16.	1
Chlorobenzene	ND		ug/kg	42	11.	1
Trichlorofluoromethane	ND		ug/kg	340	59.	1
1,2-Dichloroethane	ND		ug/kg	84	22.	1
1,1,1-Trichloroethane	ND		ug/kg	42	14.	1
Bromodichloromethane	ND		ug/kg	42	9.2	1
trans-1,3-Dichloropropene	ND		ug/kg	84	23.	1
cis-1,3-Dichloropropene	ND		ug/kg	42	13.	1
1,3-Dichloropropene, Total	ND		ug/kg	42	13.	1
1,1-Dichloropropene	ND		ug/kg	42	13.	1
Bromoform	ND		ug/kg	340	21.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	42	14.	1
Benzene	69		ug/kg	42	14.	1
Toluene	130		ug/kg	84	46.	1
Ethylbenzene	93		ug/kg	84	12.	1
Chloromethane	ND		ug/kg	340	79.	1
Bromomethane	ND		ug/kg	170	49.	1
Vinyl chloride	96		ug/kg	84	28.	1
Chloroethane	ND		ug/kg	170	38.	1
1,1-Dichloroethene	33	J	ug/kg	84	20.	1
trans-1,2-Dichloroethene	800		ug/kg	130	12.	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 Date Collected: 06/20/23 13:15

Client ID: WC-8 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	11000		ug/kg	42	12.	1
1,2-Dichlorobenzene	31	J	ug/kg	170	12.	1
1,3-Dichlorobenzene	ND		ug/kg	170	12.	1
1,4-Dichlorobenzene	15	J	ug/kg	170	14.	1
Methyl tert butyl ether	ND		ug/kg	170	17.	1
p/m-Xylene	180		ug/kg	170	47.	1
o-Xylene	74	J	ug/kg	84	24.	1
Xylenes, Total	250	J	ug/kg	84	24.	1
cis-1,2-Dichloroethene	5600		ug/kg	84	15.	1
1,2-Dichloroethene, Total	6400		ug/kg	84	12.	1
Dibromomethane	ND		ug/kg	170	20.	1
Styrene	ND		ug/kg	84	16.	1
Dichlorodifluoromethane	ND		ug/kg	840	77.	1
Acetone	830	J	ug/kg	840	410	1
Carbon disulfide	ND		ug/kg	840	380	1
2-Butanone	ND		ug/kg	840	190	1
Vinyl acetate	ND		ug/kg	840	180	1
4-Methyl-2-pentanone	ND		ug/kg	840	110	1
1,2,3-Trichloropropane	ND		ug/kg	170	11.	1
2-Hexanone	ND		ug/kg	840	100	1
Bromochloromethane	ND		ug/kg	170	17.	1
2,2-Dichloropropane	ND		ug/kg	170	17.	1
1,2-Dibromoethane	ND		ug/kg	84	24.	1
1,3-Dichloropropane	ND		ug/kg	170	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	42	11.	1
Bromobenzene	ND		ug/kg	170	12.	1
n-Butylbenzene	25	J	ug/kg	84	14.	1
sec-Butylbenzene	18	J	ug/kg	84	12.	1
tert-Butylbenzene	ND		ug/kg	170	10.	1
o-Chlorotoluene	ND		ug/kg	170	16.	1
p-Chlorotoluene	ND		ug/kg	170	9.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	84.	1
Hexachlorobutadiene	ND		ug/kg	340	14.	1
Isopropylbenzene	20	J	ug/kg	84	9.2	1
p-Isopropyltoluene	110		ug/kg	84	9.2	1
Naphthalene	340		ug/kg	340	55.	1
Acrylonitrile	ND		ug/kg	340	97.	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 Date Collected: 06/20/23 13:15

Client ID: WC-8 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	41	J	ug/kg	84	14.	1
1,2,3-Trichlorobenzene	ND		ug/kg	170	27.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	23.	1
1,3,5-Trimethylbenzene	44	J	ug/kg	170	16.	1
1,2,4-Trimethylbenzene	95	J	ug/kg	170	28.	1
1,4-Dioxane	ND		ug/kg	6800	3000	1
p-Diethylbenzene	ND		ug/kg	170	15.	1
p-Ethyltoluene	120	J	ug/kg	170	32.	1
1,2,4,5-Tetramethylbenzene	20	J	ug/kg	170	16.	1
Ethyl ether	ND		ug/kg	170	29.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	420	120	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	96		70-130

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02 D
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/01/23 18:24
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	46000		ug/kg	1000	410	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04 Date Collected: 06/20/23 13:30
Client ID: WC-7/10 Date Received: 06/21/23
Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 07/01/23 19:06
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	340	160	1
1,1-Dichloroethane	ND		ug/kg	68	9.9	1
Chloroform	34	J	ug/kg	100	9.5	1
Carbon tetrachloride	ND		ug/kg	68	16.	1
1,2-Dichloropropane	ND		ug/kg	68	8.5	1
Dibromochloromethane	ND		ug/kg	68	9.5	1
1,1,2-Trichloroethane	ND		ug/kg	68	18.	1
Tetrachloroethene	3500		ug/kg	34	13.	1
Chlorobenzene	ND		ug/kg	34	8.6	1
Trichlorofluoromethane	ND		ug/kg	270	47.	1
1,2-Dichloroethane	ND		ug/kg	68	18.	1
1,1,1-Trichloroethane	ND		ug/kg	34	11.	1
Bromodichloromethane	ND		ug/kg	34	7.4	1
trans-1,3-Dichloropropene	ND		ug/kg	68	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	34	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	34	11.	1
1,1-Dichloropropene	ND		ug/kg	34	11.	1
Bromoform	ND		ug/kg	270	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	11.	1
Benzene	ND		ug/kg	34	11.	1
Toluene	45	J	ug/kg	68	37.	1
Ethylbenzene	13	J	ug/kg	68	9.6	1
Chloromethane	ND		ug/kg	270	63.	1
Bromomethane	ND		ug/kg	140	40.	1
Vinyl chloride	ND		ug/kg	68	23.	1
Chloroethane	ND		ug/kg	140	31.	1
1,1-Dichloroethene	ND		ug/kg	68	16.	1
trans-1,2-Dichloroethene	52	J	ug/kg	100	9.3	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04 Date Collected: 06/20/23 13:30

Client ID: WC-7/10 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	480		ug/kg	34	9.3	1
1,2-Dichlorobenzene	230		ug/kg	140	9.8	1
1,3-Dichlorobenzene	ND		ug/kg	140	10.	1
1,4-Dichlorobenzene	44	J	ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	41	J	ug/kg	140	38.	1
o-Xylene	ND		ug/kg	68	20.	1
Xylenes, Total	41	J	ug/kg	68	20.	1
cis-1,2-Dichloroethene	540		ug/kg	68	12.	1
1,2-Dichloroethene, Total	590	J	ug/kg	68	9.3	1
Dibromomethane	ND		ug/kg	140	16.	1
Styrene	16	J	ug/kg	68	13.	1
Dichlorodifluoromethane	ND		ug/kg	680	62.	1
Acetone	ND		ug/kg	680	330	1
Carbon disulfide	ND		ug/kg	680	310	1
2-Butanone	ND		ug/kg	680	150	1
Vinyl acetate	ND		ug/kg	680	150	1
4-Methyl-2-pentanone	ND		ug/kg	680	87.	1
1,2,3-Trichloropropane	ND		ug/kg	140	8.6	1
2-Hexanone	ND		ug/kg	680	80.	1
Bromochloromethane	ND		ug/kg	140	14.	1
2,2-Dichloropropane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	68	19.	1
1,3-Dichloropropane	ND		ug/kg	140	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	9.0	1
Bromobenzene	ND		ug/kg	140	9.9	1
n-Butylbenzene	15	J	ug/kg	68	11.	1
sec-Butylbenzene	16	J	ug/kg	68	9.9	1
tert-Butylbenzene	ND		ug/kg	140	8.0	1
o-Chlorotoluene	14	J	ug/kg	140	13.	1
p-Chlorotoluene	ND		ug/kg	140	7.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	68.	1
Hexachlorobutadiene	ND		ug/kg	270	12.	1
Isopropylbenzene	ND		ug/kg	68	7.4	1
p-Isopropyltoluene	26	J	ug/kg	68	7.4	1
Naphthalene	130	J	ug/kg	270	44.	1
Acrylonitrile	ND		ug/kg	270	78.	1

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04 Date Collected: 06/20/23 13:30

Client ID: WC-7/10 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	18	J	ug/kg	68	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	18.	1
1,3,5-Trimethylbenzene	31	J	ug/kg	140	13.	1
1,2,4-Trimethylbenzene	83	J	ug/kg	140	23.	1
1,4-Dioxane	ND		ug/kg	5400	2400	1
p-Diethylbenzene	87	J	ug/kg	140	12.	1
p-Ethyltoluene	45	J	ug/kg	140	26.	1
1,2,4,5-Tetramethylbenzene	20	J	ug/kg	140	13.	1
Ethyl ether	ND		ug/kg	140	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	340	97.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 13:47
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1799167-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 13:47
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1799167-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/03/23 13:47
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1799167-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 10:44
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,04 Batch: WG1800206-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 10:44
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,04 Batch: WG1800206-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	19	J	ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 07/01/23 10:44
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,04 Batch: WG1800206-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
Methylene chloride	87		89		70-130	2		30
1,1-Dichloroethane	93		94		70-130	1		30
Chloroform	92		96		70-130	4		30
Carbon tetrachloride	87		86		70-130	1		30
1,2-Dichloropropane	87		89		70-130	2		30
Dibromochloromethane	82		84		70-130	2		30
1,1,2-Trichloroethane	88		91		70-130	3		30
Tetrachloroethene	77		79		70-130	3		30
Chlorobenzene	83		85		70-130	2		30
Trichlorofluoromethane	83		86		70-139	4		30
1,2-Dichloroethane	97		96		70-130	1		30
1,1,1-Trichloroethane	95		98		70-130	3		30
Bromodichloromethane	92		93		70-130	1		30
trans-1,3-Dichloropropene	84		88		70-130	5		30
cis-1,3-Dichloropropene	88		88		70-130	0		30
1,1-Dichloropropene	94		96		70-130	2		30
Bromoform	83		86		70-130	4		30
1,1,2,2-Tetrachloroethane	86		89		70-130	3		30
Benzene	92		93		70-130	1		30
Toluene	84		86		70-130	2		30
Ethylbenzene	88		90		70-130	2		30
Chloromethane	70		70		52-130	0		30
Bromomethane	102		102		57-147	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
Vinyl chloride	78		77		67-130	1		30
Chloroethane	78		77		50-151	1		30
1,1-Dichloroethene	78		82		65-135	5		30
trans-1,2-Dichloroethene	89		86		70-130	3		30
Trichloroethene	94		94		70-130	0		30
1,2-Dichlorobenzene	80		83		70-130	4		30
1,3-Dichlorobenzene	81		83		70-130	2		30
1,4-Dichlorobenzene	80		82		70-130	2		30
Methyl tert butyl ether	108		108		66-130	0		30
p/m-Xylene	85		87		70-130	2		30
o-Xylene	86		88		70-130	2		30
cis-1,2-Dichloroethene	87		87		70-130	0		30
Dibromomethane	87		89		70-130	2		30
Styrene	88		90		70-130	2		30
Dichlorodifluoromethane	83		82		30-146	1		30
Acetone	114		118		54-140	3		30
Carbon disulfide	76		77		59-130	1		30
2-Butanone	74		75		70-130	1		30
Vinyl acetate	76		74		70-130	3		30
4-Methyl-2-pentanone	86		89		70-130	3		30
1,2,3-Trichloropropane	92		96		68-130	4		30
2-Hexanone	74		76		70-130	3		30
Bromochloromethane	84		83		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
2,2-Dichloropropane	88		88		70-130	0		30
1,2-Dibromoethane	85		90		70-130	6		30
1,3-Dichloropropane	88		91		69-130	3		30
1,1,1,2-Tetrachloroethane	84		86		70-130	2		30
Bromobenzene	81		84		70-130	4		30
n-Butylbenzene	88		90		70-130	2		30
sec-Butylbenzene	87		89		70-130	2		30
tert-Butylbenzene	82		84		70-130	2		30
o-Chlorotoluene	102		105		70-130	3		30
p-Chlorotoluene	87		89		70-130	2		30
1,2-Dibromo-3-chloropropane	77		81		68-130	5		30
Hexachlorobutadiene	86		90		67-130	5		30
Isopropylbenzene	86		88		70-130	2		30
p-Isopropyltoluene	82		86		70-130	5		30
Naphthalene	77		81		70-130	5		30
Acrylonitrile	102		102		70-130	0		30
n-Propylbenzene	87		88		70-130	1		30
1,2,3-Trichlorobenzene	86		90		70-130	5		30
1,2,4-Trichlorobenzene	85		88		70-130	3		30
1,3,5-Trimethylbenzene	87		89		70-130	2		30
1,2,4-Trimethylbenzene	85		87		70-130	2		30
1,4-Dioxane	87		94		65-136	8		30
p-Diethylbenzene	81		82		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1799167-3 WG1799167-4								
p-Ethyltoluene	84		87		70-130	4		30
1,2,4,5-Tetramethylbenzene	81		84		70-130	4		30
Ethyl ether	87		91		67-130	4		30
trans-1,4-Dichloro-2-butene	88		97		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		110		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	106		105		70-130
Dibromofluoromethane	101		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
Methylene chloride	76		74		70-130	3		30
1,1-Dichloroethane	82		77		70-130	6		30
Chloroform	83		79		70-130	5		30
Carbon tetrachloride	79		73		70-130	8		30
1,2-Dichloropropane	84		83		70-130	1		30
Dibromochloromethane	91		92		70-130	1		30
1,1,2-Trichloroethane	84		86		70-130	2		30
Tetrachloroethene	87		80		70-130	8		30
Chlorobenzene	88		83		70-130	6		30
Trichlorofluoromethane	77		70		70-139	10		30
1,2-Dichloroethane	86		87		70-130	1		30
1,1,1-Trichloroethane	83		77		70-130	8		30
Bromodichloromethane	88		87		70-130	1		30
trans-1,3-Dichloropropene	92		92		70-130	0		30
cis-1,3-Dichloropropene	93		92		70-130	1		30
1,1-Dichloropropene	83		75		70-130	10		30
Bromoform	87		87		70-130	0		30
1,1,2,2-Tetrachloroethane	84		86		70-130	2		30
Benzene	84		80		70-130	5		30
Toluene	83		78		70-130	6		30
Ethylbenzene	86		79		70-130	8		30
Chloromethane	79		74		52-130	7		30
Bromomethane	93		84		57-147	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
Vinyl chloride	76		69		67-130	10		30
Chloroethane	80		75		50-151	6		30
1,1-Dichloroethene	81		72		65-135	12		30
trans-1,2-Dichloroethene	85		79		70-130	7		30
Trichloroethene	81		77		70-130	5		30
1,2-Dichlorobenzene	84		82		70-130	2		30
1,3-Dichlorobenzene	87		83		70-130	5		30
1,4-Dichlorobenzene	88		84		70-130	5		30
Methyl tert butyl ether	98		100		66-130	2		30
p/m-Xylene	90		85		70-130	6		30
o-Xylene	89		84		70-130	6		30
cis-1,2-Dichloroethene	84		80		70-130	5		30
Dibromomethane	86		88		70-130	2		30
Styrene	94		90		70-130	4		30
Dichlorodifluoromethane	71		63		30-146	12		30
Acetone	81		80		54-140	1		30
Carbon disulfide	80		74		59-130	8		30
2-Butanone	83		83		70-130	0		30
Vinyl acetate	86		87		70-130	1		30
4-Methyl-2-pentanone	87		87		70-130	0		30
1,2,3-Trichloropropane	83		83		68-130	0		30
2-Hexanone	81		82		70-130	1		30
Bromochloromethane	90		89		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
2,2-Dichloropropane	86		78		70-130	10		30
1,2-Dibromoethane	90		92		70-130	2		30
1,3-Dichloropropane	86		85		69-130	1		30
1,1,1,2-Tetrachloroethane	88		85		70-130	3		30
Bromobenzene	83		80		70-130	4		30
n-Butylbenzene	89		82		70-130	8		30
sec-Butylbenzene	80		73		70-130	9		30
tert-Butylbenzene	78		73		70-130	7		30
o-Chlorotoluene	95		78		70-130	20		30
p-Chlorotoluene	86		82		70-130	5		30
1,2-Dibromo-3-chloropropane	84		85		68-130	1		30
Hexachlorobutadiene	83		75		67-130	10		30
Isopropylbenzene	82		76		70-130	8		30
p-Isopropyltoluene	85		78		70-130	9		30
Naphthalene	82		83		70-130	1		30
Acrylonitrile	82		81		70-130	1		30
n-Propylbenzene	84		77		70-130	9		30
1,2,3-Trichlorobenzene	85		83		70-130	2		30
1,2,4-Trichlorobenzene	95		92		70-130	3		30
1,3,5-Trimethylbenzene	86		80		70-130	7		30
1,2,4-Trimethylbenzene	85		81		70-130	5		30
1,4-Dioxane	88		88		65-136	0		30
p-Diethylbenzene	87		80		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,04 Batch: WG1800206-3 WG1800206-4								
p-Ethyltoluene	85		80		70-130	6		30
1,2,4,5-Tetramethylbenzene	84		80		70-130	5		30
Ethyl ether	91		93		67-130	2		30
trans-1,4-Dichloro-2-butene	88		88		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		106		70-130
Toluene-d8	99		97		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	99		101		70-130

SEMIVOLATILES

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/03/23 03:15
Analyst: JG
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 10:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	170	22.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
Fluoranthene	1000		ug/kg	120	24.	1
Naphthalene	980		ug/kg	210	25.	1
Benzo(a)anthracene	560		ug/kg	120	24.	1
Benzo(a)pyrene	560		ug/kg	170	51.	1
Benzo(b)fluoranthene	990		ug/kg	120	35.	1
Benzo(k)fluoranthene	280		ug/kg	120	33.	1
Chrysene	710		ug/kg	120	22.	1
Acenaphthylene	360		ug/kg	170	32.	1
Anthracene	440		ug/kg	120	41.	1
Benzo(ghi)perylene	590		ug/kg	170	24.	1
Fluorene	130	J	ug/kg	210	20.	1
Phenanthrene	900		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	160		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	660		ug/kg	170	29.	1
Pyrene	800		ug/kg	120	21.	1
2-Methylnaphthalene	310		ug/kg	250	25.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	60		30-120
4-Terphenyl-d14	49		18-120

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 07/03/23 03:39
Analyst: EJL
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 10:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	55	J	ug/kg	150	20.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
Fluoranthene	560		ug/kg	120	22.	1
Naphthalene	82	J	ug/kg	190	24.	1
Benzo(a)anthracene	290		ug/kg	120	22.	1
Benzo(a)pyrene	270		ug/kg	150	47.	1
Benzo(b)fluoranthene	330		ug/kg	120	33.	1
Benzo(k)fluoranthene	96	J	ug/kg	120	31.	1
Chrysene	330		ug/kg	120	20.	1
Acenaphthylene	30	J	ug/kg	150	30.	1
Anthracene	120		ug/kg	120	38.	1
Benzo(ghi)perylene	180		ug/kg	150	23.	1
Fluorene	68	J	ug/kg	190	19.	1
Phenanthrene	460		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	45	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	180		ug/kg	150	27.	1
Pyrene	510		ug/kg	120	19.	1
2-Methylnaphthalene	78	J	ug/kg	230	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	62		30-120
4-Terphenyl-d14	44		18-120

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 06/30/23 11:58
Analyst: CMM

Extraction Method: EPA 3546
Extraction Date: 06/27/23 10:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1796586-1					
Acenaphthene	ND		ug/kg	130	17.
2-Chloronaphthalene	ND		ug/kg	170	16.
Fluoranthene	ND		ug/kg	100	19.
Naphthalene	ND		ug/kg	170	20.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	41.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
2-Methylnaphthalene	ND		ug/kg	200	20.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	68		30-120
4-Terphenyl-d14	75		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1796586-2 WG1796586-3								
Acenaphthene	75		68		31-137	10		50
2-Chloronaphthalene	75		68		40-140	10		50
Fluoranthene	76		69		40-140	10		50
Naphthalene	76		70		40-140	8		50
Benzo(a)anthracene	80		72		40-140	11		50
Benzo(a)pyrene	87		80		40-140	8		50
Benzo(b)fluoranthene	79		72		40-140	9		50
Benzo(k)fluoranthene	81		73		40-140	10		50
Chrysene	79		73		40-140	8		50
Acenaphthylene	81		73		40-140	10		50
Anthracene	78		71		40-140	9		50
Benzo(ghi)perylene	81		73		40-140	10		50
Fluorene	75		68		40-140	10		50
Phenanthrene	76		70		40-140	8		50
Dibenzo(a,h)anthracene	81		73		40-140	10		50
Indeno(1,2,3-cd)pyrene	85		77		40-140	10		50
Pyrene	76		69		35-142	10		50
2-Methylnaphthalene	77		72		40-140	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1796586-2 WG1796586-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	91		84		23-120
2-Fluorobiphenyl	72		65		30-120
4-Terphenyl-d14	75		67		18-120

PETROLEUM HYDROCARBONS

Project Name: AVANT GARDNER-WC
Lab Number: L2335538
Project Number: ES22-387153
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 06/28/23 08:59
Analyst: SC
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	380000		ug/kg	41000	2300	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		40-140

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 07/02/23 14:24
Analyst: KJD
Percent Solids: 79%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	4100		ug/kg	3000	57.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		70-130
4-Bromofluorobenzene	84		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 06/28/23 09:50
Analyst: SC
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Diesel Range Organics - Westborough Lab						
DRO (C10-C28)	93000		ug/kg	39000	2100	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	62		40-140

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 07/02/23 15:52
Analyst: KJD
Percent Solids: 86%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	15000		ug/kg	2600	50.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	98		70-130
4-Bromofluorobenzene	89		70-130

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 06/28/23 08:34
Analyst: SC

Extraction Method: EPA 3546
Extraction Date: 06/27/23 21:18

Parameter	Result	Qualifier	Units	RL	MDL
Diesel Range Organics - Westborough Lab for sample(s): 01,03 Batch: WG1796899-1					
DRO (C10-C28)	2800	J	ug/kg	33000	1800

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	55		40-140

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 07/02/23 13:55
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 01,03 Batch: WG1799130-4					
Gasoline Range Organics	700	J	ug/kg	2500	48.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	101		70-130
4-Bromofluorobenzene	87		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab	Associated sample(s): 01,03		Batch: WG1796899-2					
DRO (C10-C28)	87		-		60-140	-		

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	70				40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab	Associated sample(s): 01,03		Batch: WG1799130-2 WG1799130-3					
Gasoline Range Organics	89		93		80-120	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	105		107		70-130
4-Bromofluorobenzene	91		93		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1799130-6 QC Sample: L2335538-01 Client ID: WC-8												
Gasoline Range Organics	4100	23600	25000	87		-	-		80-120	-		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	106				70-130
4-Bromofluorobenzene	93				70-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Diesel Range Organics - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1796899-3 QC Sample: L2335538-01 Client ID: WC-8						
DRO (C10-C28)	380000	310000	ug/kg	20		20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		53		40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1799130-5 QC Sample: L2335538-01 Client ID: WC-8						
Gasoline Range Organics	4100	4100	ug/kg	0		20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		103		70-130
4-Bromofluorobenzene	84		91		70-130

PCBS

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/28/23 09:02
Analyst: ER
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 19:18
Cleanup Method: EPA 3665A
Cleanup Date: 06/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 06/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	58.0	5.15	1	A
Aroclor 1221	ND		ug/kg	58.0	5.81	1	A
Aroclor 1232	ND		ug/kg	58.0	12.3	1	A
Aroclor 1242	ND		ug/kg	58.0	7.82	1	A
Aroclor 1248	ND		ug/kg	58.0	8.70	1	A
Aroclor 1254	ND		ug/kg	58.0	6.34	1	A
Aroclor 1260	ND		ug/kg	58.0	10.7	1	A
Aroclor 1262	ND		ug/kg	58.0	7.36	1	A
Aroclor 1268	ND		ug/kg	58.0	6.01	1	A
PCBs, Total	ND		ug/kg	58.0	5.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/28/23 09:11
Analyst: ER
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 06/27/23 19:18
Cleanup Method: EPA 3665A
Cleanup Date: 06/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 06/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.2	4.90	1	A
Aroclor 1221	ND		ug/kg	55.2	5.53	1	A
Aroclor 1232	ND		ug/kg	55.2	11.7	1	A
Aroclor 1242	ND		ug/kg	55.2	7.44	1	A
Aroclor 1248	ND		ug/kg	55.2	8.28	1	A
Aroclor 1254	ND		ug/kg	55.2	6.04	1	A
Aroclor 1260	23.7	J	ug/kg	55.2	10.2	1	B
Aroclor 1262	ND		ug/kg	55.2	7.01	1	A
Aroclor 1268	ND		ug/kg	55.2	5.72	1	A
PCBs, Total	23.7	J	ug/kg	55.2	4.90	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/28/23 08:37
Analyst: ER

Extraction Method: EPA 3546
Extraction Date: 06/27/23 19:18
Cleanup Method: EPA 3665A
Cleanup Date: 06/28/23
Cleanup Method: EPA 3660B
Cleanup Date: 06/28/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03 Batch: WG1796876-1						
Aroclor 1016	ND		ug/kg	47.6	4.23	A
Aroclor 1221	ND		ug/kg	47.6	4.77	A
Aroclor 1232	ND		ug/kg	47.6	10.1	A
Aroclor 1242	ND		ug/kg	47.6	6.42	A
Aroclor 1248	ND		ug/kg	47.6	7.14	A
Aroclor 1254	ND		ug/kg	47.6	5.21	A
Aroclor 1260	ND		ug/kg	47.6	8.80	A
Aroclor 1262	ND		ug/kg	47.6	6.05	A
Aroclor 1268	ND		ug/kg	47.6	4.93	A
PCBs, Total	ND		ug/kg	47.6	4.23	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	87		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG1796876-2 WG1796876-3									
Aroclor 1016	58		62		40-140	7		50	A
Aroclor 1260	54		58		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		74		30-150	A
Decachlorobiphenyl	65		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		77		30-150	B
Decachlorobiphenyl	79		85		30-150	B

METALS

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01 Date Collected: 06/20/23 13:15

Client ID: WC-8 Date Received: 06/21/23

Sample Location: 140 STEWART AVE, BROOKLYN NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 06/23/23 03:26

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Barium, TCLP	0.460	J	mg/l	0.500	0.0210	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Lead, TCLP	0.122	J	mg/l	0.500	0.0270	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/23 12:33	07/05/23 12:22	EPA 7470A	1,7470A	GMG
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/23 12:56	06/27/23 19:53	EPA 3015	1,6010D	MRC

Project Name: AVANT GARDNER-WC
Lab Number: L2335538
Project Number: ES22-387153
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY
Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%
TCLP/SPLP Ext. Date: 06/23/23 03:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Barium, TCLP	0.224	J	mg/l	0.500	0.0210	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Lead, TCLP	0.0426	J	mg/l	0.500	0.0270	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/23 12:33	07/05/23 12:25	EPA 7470A	1,7470A	GMG
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/23 12:56	06/27/23 19:56	EPA 3015	1,6010D	MRC

Project Name: AVANT GARDNER-WC **Lab Number:** L2335538

Project Number: ES22-387153 **Report Date:** 07/12/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01,03 Batch: WG1795975-1										
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Barium, TCLP	ND		mg/l	0.500	0.0210	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Lead, TCLP	ND		mg/l	0.500	0.0270	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/23 12:56	06/26/23 15:59	1,6010D	DHL

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 06/23/23 03:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01,03 Batch: WG1795976-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/23 12:33	06/27/23 08:24	1,7470A	GMG

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 06/23/23 03:26

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 Batch: WG1795975-2								
Arsenic, TCLP	102		-		75-125	-		20
Barium, TCLP	101		-		75-125	-		20
Cadmium, TCLP	104		-		75-125	-		20
Chromium, TCLP	104		-		75-125	-		20
Lead, TCLP	98		-		75-125	-		20
Selenium, TCLP	101		-		75-125	-		20
Silver, TCLP	102		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 Batch: WG1795976-2								
Mercury, TCLP	100		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795975-3 QC Sample: L2334865-01 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.23	102		-	-		75-125	-		20
Barium, TCLP	0.478J	20	20.6	103		-	-		75-125	-		20
Cadmium, TCLP	ND	0.53	0.543	102		-	-		75-125	-		20
Chromium, TCLP	ND	2	2.05	102		-	-		75-125	-		20
Lead, TCLP	0.258J	5.3	5.43	102		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.21	101		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.499	100		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795976-3 QC Sample: L2334941-01 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0246	98		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795975-4 QC Sample: L2334865-01 Client ID: DUP Sample						
Lead, TCLP	0.258J	0.258J	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03 QC Batch ID: WG1795976-4 QC Sample: L2334941-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

SAMPLE RESULTS

Lab ID:	L2335538-01	Date Collected:	06/20/23 13:15
Client ID:	WC-8	Date Received:	06/21/23
Sample Location:	140 STEWART AVE, BROOKLYN NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/03/23 19:00	1,1030	GEF

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

SAMPLE RESULTS

Lab ID:	L2335538-03	Date Collected:	06/20/23 13:30
Client ID:	WC-7/10	Date Received:	06/21/23
Sample Location:	140 STEWART AVE, BROOKLYN NY	Field Prep:	Not Specified
Sample Depth:			
Matrix:	Soil		

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	07/03/23 19:00	1,1030	GEF

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-01
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.9		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI
pH (H)	7.30		SU	-	NA	1	-	07/11/23 06:00	1,9045D	OCF
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:21	125,7.3	QJM
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:51	125,7.3	QJM
Paint Filter Liquid	Negative		-	0	NA	1	-	06/22/23 17:26	1,9095B	AAS

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-02
Client ID: WC-8
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:15
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-03
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI
pH (H)	8.00		SU	-	NA	1	-	07/11/23 06:00	1,9045D	OCF
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:21	125,7.3	QJM
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:52	125,7.3	QJM
Paint Filter Liquid	Negative		-	0	NA	1	-	06/22/23 17:26	1,9095B	AAS

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

SAMPLE RESULTS

Lab ID: L2335538-04
Client ID: WC-7/10
Sample Location: 140 STEWART AVE, BROOKLYN NY
Sample Depth:
Matrix: Soil

Date Collected: 06/20/23 13:30
Date Received: 06/21/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.7		%	0.100	NA	1	-	06/22/23 11:53	121,2540G	ROI

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153
Lab Number: L2335538
Report Date: 07/12/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,03 Batch: WG1798695-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:44	125,7.3	QJM
General Chemistry - Westborough Lab for sample(s): 01,03 Batch: WG1798697-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	07/01/23 19:35	07/01/23 21:12	125,7.3	QJM

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER-WC

Project Number: ES22-387153

Lab Number: L2335538

Report Date: 07/12/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03 Batch: WG1798695-2								
Sulfide, Reactive	71		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 Batch: WG1798697-2								
Cyanide, Reactive	78		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 Batch: WG1801607-1								
pH	100		-		99-101	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1794681-1 QC Sample: L2335541-21 Client ID: DUP Sample						
Solids, Total	50.4	57.1	%	12		20
General Chemistry - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1798695-3 QC Sample: L2334851-07 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1798697-3 QC Sample: L2334851-07 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01,03 QC Batch ID: WG1801607-2 QC Sample: L2337685-01 Client ID: DUP Sample						
pH	7.24	7.30	SU	1		5

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335538-01A	Vial Large Septa unpreserved (4oz)	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-01B	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		SUB-METALS 6010(180)
L2335538-01C	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),NYTCL-PAH(14),REACTS(14),TS(7),TPH-DRO(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2335538-01D	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),NYTCL-PAH(14),REACTS(14),TS(7),TPH-DRO(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2335538-01E	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),NYTCL-PAH(14),REACTS(14),TS(7),TPH-DRO(14),PH-9045(1),PAINTF(),NYTCL-8082(365),REACTCN(14)
L2335538-01W	Plastic 120ml HNO3 preserved Extracts	A	NA		2.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2335538-01X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-01X9	Tumble Vessel	A	NA		2.9	Y	Absent		-
L2335538-02A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2335538-02X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-02Y	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)
L2335538-02Z	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)
L2335538-03A	Vial Large Septa unpreserved (4oz)	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-03B	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		SUB-METALS 6010(180)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER-WC
Project Number: ES22-387153

Lab Number: L2335538
Report Date: 07/12/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2335538-03C	Glass 60mL/2oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-PAH(14),TPH-DRO(14),TS(7),PH-9045(1),PAINTF(),REACTCN(14),NYTCL-8082(365)
L2335538-03D	Glass 120ml/4oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-PAH(14),TPH-DRO(14),TS(7),PH-9045(1),PAINTF(),REACTCN(14),NYTCL-8082(365)
L2335538-03E	Glass 500ml/16oz unpreserved	A	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-PAH(14),TPH-DRO(14),TS(7),PH-9045(1),PAINTF(),REACTCN(14),NYTCL-8082(365)
L2335538-03W	Plastic 120ml HNO3 preserved Extracts	A	NA		2.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2335538-03X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		TPH-GRO(14)
L2335538-03X9	Tumble Vessel	A	NA		2.9	Y	Absent		-
L2335538-04A	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04B	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04C	5 gram Encore Sampler	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04D	Plastic 2oz unpreserved for TS	A	NA		2.9	Y	Absent		TS(7)
L2335538-04X	Vial MeOH preserved split	A	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2335538-04Y	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)
L2335538-04Z	Vial Water preserved split	A	NA		2.9	Y	Absent	22-JUN-23 09:28	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER-WC	**Lab Number:**	L2335538
Project Number:	ES22-387153	**Report Date:**	07/12/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of

Date Rec'd in Lab: 6/22/23

ALPHA Job #: L2335536

Client Information
Client: PARTNER
Address: 611 Industrial Way West
Eatontown, NJ 07724
Phone: 732 389 1700
Fax: 732-389-1701
Email: DLent@partnereic.com

Project Information
Project Name: Avon Gardens - WC
Project Location: 140 Stewart Ave, Bradley Beach, NJ
Project #: E522-387153
(Use Project name as Project #) ☒
Project Manager: David Lent
ALPHAQuote #: —

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO # E522-387153

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☒ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TPH (8015B)	VOCs	PAHs	Total RCRA Metals	TCLP RCRA Metals	PCBs	Ignitability, Corrosivity, Reactivity	Paint Filter	Sample Specific Comments	Total Bottle
35538-01	WC-8	6-20-23	1315	SOIL	ABC	X		X	X	X	X	X	X		
02	WC-8	↓	1315	SOIL	BC		X								
03	WC-7/10		1330	SOIL	BC	X		X	X	X	X	X	X		
04	WC-7/10	↓	1330	SOIL	BC		X								

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	E	A	A	A	A	A	A	
Preservative	A	A	A	A	A	A	A	A	

Relinquished By:	Date/Time	Received By:	Date/Time
	6/22/23 1700		6/22/23 16:30
	6/22/23 1730		6/22 2100
	6/22/23 0130		6/22 0130
	6/22 0330		6/23 03:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

APL
AQUA PRO-TECH LABORATORIES
A Pace® Analytical Laboratory
1275 Bloomfield Avenue, Fairfield, NJ 07004 (973) 227-0422

ANALYTICAL RESULTS

STANDARD DELIVERABLES FORMAT

APL WORK ORDER NUMBER: 23F1150

Alpha Analytical Laboratories

Project: L2335538

Sudip Pradhan
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

Report Date: Jul 12, 2023

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

L2335538

Client: Alpha Analytical Laboratories **Contact:** Sub Reporting

APL Order ID: 23F1150 **Received:** 06/23/23 08:45

Sample ID/Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
23F1150-01 (Soil)	WC-8			Collected: 06/20/23 13:15				
General Chemistry								
Percent Solids	Gravimetric	06/23/23 18:41	06/26/23 10:30	**80.3**				**%**
23F1150-01 (Soil)	WC-8			Collected: 06/20/23 13:15				
Total Metals								
Arsenic	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**13.8**			**1.53**	**mg/kg dry**
Barium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**119**			**0.610**	**mg/kg dry**
Cadmium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**0.949**			**0.305**	**mg/kg dry**
Chromium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**24.2**			**0.305**	**mg/kg dry**
Lead	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**250**			**1.53**	**mg/kg dry**
Selenium	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	ND	U		1.53	mg/kg dry
Silver	SW 846 6010D	06/27/23 09:39	06/29/23 10:34	**0.216**			**0.183**	**mg/kg dry**
Mercury	SW 846 7473	06/26/23 12:39	06/26/23 12:39	**6.25**			**0.0249**	**mg/kg dry**
23F1150-02 (Soil)	WC-7/10			Collected: 06/20/23 13:30				
General Chemistry								
Percent Solids	Gravimetric	06/23/23 18:41	06/26/23 10:30	**84.1**				**%**
23F1150-02 (Soil)	WC-7/10			Collected: 06/20/23 13:30				
Total Metals								
Arsenic	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**4.25**			**1.42**	**mg/kg dry**
Barium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**44.4**			**0.567**	**mg/kg dry**
Cadmium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**0.343**			**0.283**	**mg/kg dry**
Chromium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**34.0**			**0.283**	**mg/kg dry**
Lead	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**58.9**			**1.42**	**mg/kg dry**
Selenium	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	ND	U		1.42	mg/kg dry
Silver	SW 846 6010D	06/27/23 09:39	06/29/23 10:36	**0.197**			**0.170**	**mg/kg dry**
Mercury	SW 846 7473	06/26/23 12:39	06/26/23 12:39	**0.888**			**0.0238**	**mg/kg dry**

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation
D1 - Sample was Decanted (Dissolved)

Subcontract Chain of Custody

Aqua Pro-Tech Laboratories (APL)
1275 Bloomfield Ave.
Bldg. 6
Fairfield, NJ 07004

Alpha Job Number
L2335538

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 508.439.5155
Email: mvitanza@alphalab.com

Project Information

Project Location: NY
Project Manager: Marty Vitanza

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:

Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2335538

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com TRCRA8, CATB

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
23F1150-01	WC-8	06-20-23 13:15	SOIL	Metals 6010	
-02	WC-7/10	06-20-23 13:30	SOIL	Metals 6010	

APL 23F1150
AQUA PRO-TECH LABORATORIES
www.aquaprotechlabs.com

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/22/23		6/22/23 17:30
		6/22/23 22:20		6/23/23 22:35
		6/23/23 8:45		6-23-23 7:30

Form No: AL_subcoc

ANALYTICAL REPORT

Lab Number:	L2218426
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER
Project Number:	17244793
Report Date:	04/22/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2218426
Report Date: 04/22/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2218426-01	7-TW4-25	WATER	140 STEWART AVE., BROOKLYN, NY	04/07/22 14:00	04/08/22
L2218426-02	7-TW4-40	WATER	140 STEWART AVE., BROOKLYN, NY	04/07/22 13:45	04/08/22
L2218426-03	7-TW4-55	WATER	140 STEWART AVE., BROOKLYN, NY	04/07/22 13:30	04/08/22
L2218426-04	7-TW4-70	WATER	140 STEWART AVE., BROOKLYN, NY	04/07/22 13:15	04/08/22
L2218426-05	7-TW5-25	WATER	140 STEWART AVE., BROOKLYN, NY	04/08/22 12:00	04/08/22
L2218426-06	7-TW5-40	WATER	140 STEWART AVE., BROOKLYN, NY	04/08/22 11:30	04/08/22
L2218426-07	7-TW5-55	WATER	140 STEWART AVE., BROOKLYN, NY	04/08/22 11:00	04/08/22
L2218426-08	7-TW5-70	WATER	140 STEWART AVE., BROOKLYN, NY	04/08/22 10:30	04/08/22
L2218426-09	7-TW6-25	WATER	140 STEWART AVE., BROOKLYN, NY	04/07/22 12:15	04/08/22
L2218426-10	7-TW6-40	WATER	140 STEWART AVE., BROOKLYN, NY	04/07/22 12:00	04/08/22
L2218426-11	7-TW6-55	WATER	140 STEWART AVE., BROOKLYN, NY	04/07/22 10:10	04/08/22
L2218426-12	7-TW6-70	WATER	140 STEWART AVE., BROOKLYN, NY	04/07/22 09:45	04/08/22
L2218426-13	7-TW7-25	WATER	140 STEWART AVE., BROOKLYN, NY	04/08/22 09:30	04/08/22
L2218426-14	7-TW7-40	WATER	140 STEWART AVE., BROOKLYN, NY	04/08/22 09:00	04/08/22
L2218426-15	7-TW7-55	WATER	140 STEWART AVE., BROOKLYN, NY	04/08/22 08:45	04/08/22
L2218426-16	7-TW7-70	WATER	140 STEWART AVE., BROOKLYN, NY	04/08/22 08:15	04/08/22
L2218426-17	FIELD BLANK	WATER	140 STEWART AVE., BROOKLYN, NY	04/07/22 09:15	04/08/22
L2218426-18	TRIP BLANK	WATER	140 STEWART AVE., BROOKLYN, NY	04/06/22 00:00	04/08/22
L2218426-19	DUP	WATER	140 STEWART AVE., BROOKLYN, NY	04/08/22 10:30	04/08/22

Project Name:	AVANT GARDNER	**Lab Number:**	L2218426
Project Number:	17244793	**Report Date:**	04/22/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	AVANT GARDNER	**Lab Number:**	L2218426
Project Number:	17244793	**Report Date:**	04/22/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2218426-01D through -13 and -19: The sample was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

L2218426-03D through -10, -13, and -19: Headspace was noted in the sample container utilized for analysis.

L2218426-12: Differences were noted between the results of the analyses which have been attributed to vial discrepancies. Further re-analysis could not be performed due to the existing vials being compromised.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 04/22/22

ORGANICS

VOLATILES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-01 D
Client ID: 7-TW4-25
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/07/22 14:00
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/16/22 17:41
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	10	2.8	4
1,1-Dichloroethane	ND		ug/l	10	2.8	4
Chloroform	ND		ug/l	10	2.8	4
Carbon tetrachloride	ND		ug/l	2.0	0.54	4
1,2-Dichloropropane	ND		ug/l	4.0	0.55	4
Dibromochloromethane	ND		ug/l	2.0	0.60	4
1,1,2-Trichloroethane	ND		ug/l	6.0	2.0	4
Tetrachloroethene	580		ug/l	2.0	0.72	4
Chlorobenzene	ND		ug/l	10	2.8	4
Trichlorofluoromethane	ND		ug/l	10	2.8	4
1,2-Dichloroethane	ND		ug/l	2.0	0.53	4
1,1,1-Trichloroethane	ND		ug/l	10	2.8	4
Bromodichloromethane	ND		ug/l	2.0	0.77	4
trans-1,3-Dichloropropene	ND		ug/l	2.0	0.66	4
cis-1,3-Dichloropropene	ND		ug/l	2.0	0.58	4
1,3-Dichloropropene, Total	ND		ug/l	2.0	0.58	4
1,1-Dichloropropene	ND		ug/l	10	2.8	4
Bromoform	ND		ug/l	8.0	2.6	4
1,1,2,2-Tetrachloroethane	ND		ug/l	2.0	0.67	4
Benzene	1.2	J	ug/l	2.0	0.64	4
Toluene	3.4	J	ug/l	10	2.8	4
Ethylbenzene	ND		ug/l	10	2.8	4
Chloromethane	ND		ug/l	10	2.8	4
Bromomethane	ND		ug/l	10	2.8	4
Vinyl chloride	44		ug/l	4.0	0.28	4
Chloroethane	ND		ug/l	10	2.8	4
1,1-Dichloroethene	ND		ug/l	2.0	0.68	4
trans-1,2-Dichloroethene	ND		ug/l	10	2.8	4

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-01 D Date Collected: 04/07/22 14:00

Client ID: 7-TW4-25 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	190		ug/l	2.0	0.70	4
1,2-Dichlorobenzene	3.7	J	ug/l	10	2.8	4
1,3-Dichlorobenzene	ND		ug/l	10	2.8	4
1,4-Dichlorobenzene	ND		ug/l	10	2.8	4
Methyl tert butyl ether	ND		ug/l	10	2.8	4
p/m-Xylene	ND		ug/l	10	2.8	4
o-Xylene	ND		ug/l	10	2.8	4
Xylenes, Total	ND		ug/l	10	2.8	4
cis-1,2-Dichloroethene	310		ug/l	10	2.8	4
1,2-Dichloroethene, Total	310		ug/l	10	2.8	4
Dibromomethane	ND		ug/l	20	4.0	4
1,2,3-Trichloropropane	ND		ug/l	10	2.8	4
Acrylonitrile	ND		ug/l	20	6.0	4
Styrene	ND		ug/l	10	2.8	4
Dichlorodifluoromethane	ND		ug/l	20	4.0	4
Acetone	10	J	ug/l	20	5.8	4
Carbon disulfide	ND		ug/l	20	4.0	4
2-Butanone	ND		ug/l	20	7.8	4
Vinyl acetate	ND		ug/l	20	4.0	4
4-Methyl-2-pentanone	ND		ug/l	20	4.0	4
2-Hexanone	ND		ug/l	20	4.0	4
Bromochloromethane	ND		ug/l	10	2.8	4
2,2-Dichloropropane	ND		ug/l	10	2.8	4
1,2-Dibromoethane	ND		ug/l	8.0	2.6	4
1,3-Dichloropropane	ND		ug/l	10	2.8	4
1,1,1,2-Tetrachloroethane	ND		ug/l	10	2.8	4
Bromobenzene	ND		ug/l	10	2.8	4
n-Butylbenzene	ND		ug/l	10	2.8	4
sec-Butylbenzene	ND		ug/l	10	2.8	4
tert-Butylbenzene	ND		ug/l	10	2.8	4
o-Chlorotoluene	ND		ug/l	10	2.8	4
p-Chlorotoluene	ND		ug/l	10	2.8	4
1,2-Dibromo-3-chloropropane	ND		ug/l	10	2.8	4
Hexachlorobutadiene	ND		ug/l	10	2.8	4
Isopropylbenzene	ND		ug/l	10	2.8	4
p-Isopropyltoluene	ND		ug/l	10	2.8	4
Naphthalene	19		ug/l	10	2.8	4

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-01 D Date Collected: 04/07/22 14:00

Client ID: 7-TW4-25 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	10	2.8	4
1,2,3-Trichlorobenzene	ND		ug/l	10	2.8	4
1,2,4-Trichlorobenzene	ND		ug/l	10	2.8	4
1,3,5-Trimethylbenzene	ND		ug/l	10	2.8	4
1,2,4-Trimethylbenzene	ND		ug/l	10	2.8	4
1,4-Dioxane	ND		ug/l	1000	240	4
p-Diethylbenzene	ND		ug/l	8.0	2.8	4
p-Ethyltoluene	ND		ug/l	8.0	2.8	4
1,2,4,5-Tetramethylbenzene	ND		ug/l	8.0	2.2	4
Ethyl ether	ND		ug/l	10	2.8	4
trans-1,4-Dichloro-2-butene	ND		ug/l	10	2.8	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-02 D
Client ID: 7-TW4-40
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/07/22 13:45
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/16/22 18:06
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	12	3.5	5
1,1-Dichloroethane	ND		ug/l	12	3.5	5
Chloroform	ND		ug/l	12	3.5	5
Carbon tetrachloride	ND		ug/l	2.5	0.67	5
1,2-Dichloropropane	ND		ug/l	5.0	0.68	5
Dibromochloromethane	ND		ug/l	2.5	0.74	5
1,1,2-Trichloroethane	ND		ug/l	7.5	2.5	5
Tetrachloroethene	950		ug/l	2.5	0.90	5
Chlorobenzene	ND		ug/l	12	3.5	5
Trichlorofluoromethane	ND		ug/l	12	3.5	5
1,2-Dichloroethane	ND		ug/l	2.5	0.66	5
1,1,1-Trichloroethane	ND		ug/l	12	3.5	5
Bromodichloromethane	ND		ug/l	2.5	0.96	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	0.82	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	0.72	5
1,3-Dichloropropene, Total	ND		ug/l	2.5	0.72	5
1,1-Dichloropropene	ND		ug/l	12	3.5	5
Bromoform	ND		ug/l	10	3.2	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	0.84	5
Benzene	1.5	J	ug/l	2.5	0.80	5
Toluene	4.4	J	ug/l	12	3.5	5
Ethylbenzene	ND		ug/l	12	3.5	5
Chloromethane	ND		ug/l	12	3.5	5
Bromomethane	ND		ug/l	12	3.5	5
Vinyl chloride	39		ug/l	5.0	0.36	5
Chloroethane	ND		ug/l	12	3.5	5
1,1-Dichloroethene	1.1	J	ug/l	2.5	0.84	5
trans-1,2-Dichloroethene	ND		ug/l	12	3.5	5

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-02 D Date Collected: 04/07/22 13:45

Client ID: 7-TW4-40 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	450		ug/l	2.5	0.88	5
1,2-Dichlorobenzene	6.1	J	ug/l	12	3.5	5
1,3-Dichlorobenzene	ND		ug/l	12	3.5	5
1,4-Dichlorobenzene	ND		ug/l	12	3.5	5
Methyl tert butyl ether	ND		ug/l	12	3.5	5
p/m-Xylene	ND		ug/l	12	3.5	5
o-Xylene	ND		ug/l	12	3.5	5
Xylenes, Total	ND		ug/l	12	3.5	5
cis-1,2-Dichloroethene	420		ug/l	12	3.5	5
1,2-Dichloroethene, Total	420		ug/l	12	3.5	5
Dibromomethane	ND		ug/l	25	5.0	5
1,2,3-Trichloropropane	ND		ug/l	12	3.5	5
Acrylonitrile	ND		ug/l	25	7.5	5
Styrene	ND		ug/l	12	3.5	5
Dichlorodifluoromethane	ND		ug/l	25	5.0	5
Acetone	ND		ug/l	25	7.3	5
Carbon disulfide	ND		ug/l	25	5.0	5
2-Butanone	ND		ug/l	25	9.7	5
Vinyl acetate	ND		ug/l	25	5.0	5
4-Methyl-2-pentanone	ND		ug/l	25	5.0	5
2-Hexanone	ND		ug/l	25	5.0	5
Bromochloromethane	ND		ug/l	12	3.5	5
2,2-Dichloropropane	ND		ug/l	12	3.5	5
1,2-Dibromoethane	ND		ug/l	10	3.2	5
1,3-Dichloropropane	ND		ug/l	12	3.5	5
1,1,1,2-Tetrachloroethane	ND		ug/l	12	3.5	5
Bromobenzene	ND		ug/l	12	3.5	5
n-Butylbenzene	ND		ug/l	12	3.5	5
sec-Butylbenzene	ND		ug/l	12	3.5	5
tert-Butylbenzene	ND		ug/l	12	3.5	5
o-Chlorotoluene	ND		ug/l	12	3.5	5
p-Chlorotoluene	ND		ug/l	12	3.5	5
1,2-Dibromo-3-chloropropane	ND		ug/l	12	3.5	5
Hexachlorobutadiene	ND		ug/l	12	3.5	5
Isopropylbenzene	ND		ug/l	12	3.5	5
p-Isopropyltoluene	ND		ug/l	12	3.5	5
Naphthalene	15		ug/l	12	3.5	5

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-02 D Date Collected: 04/07/22 13:45

Client ID: 7-TW4-40 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	12	3.5	5
1,2,3-Trichlorobenzene	ND		ug/l	12	3.5	5
1,2,4-Trichlorobenzene	ND		ug/l	12	3.5	5
1,3,5-Trimethylbenzene	ND		ug/l	12	3.5	5
1,2,4-Trimethylbenzene	4.0	J	ug/l	12	3.5	5
1,4-Dioxane	ND		ug/l	1200	300	5
p-Diethylbenzene	ND		ug/l	10	3.5	5
p-Ethyltoluene	ND		ug/l	10	3.5	5
1,2,4,5-Tetramethylbenzene	ND		ug/l	10	2.7	5
Ethyl ether	ND		ug/l	12	3.5	5
trans-1,4-Dichloro-2-butene	ND		ug/l	12	3.5	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-03 D
Client ID: 7-TW4-55
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 04/07/22 13:30
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/16/22 18:31
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	1000		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
1,3-Dichloropropene, Total	ND		ug/l	5.0	1.4	10
1,1-Dichloropropene	ND		ug/l	25	7.0	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	36		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-03 D Date Collected: 04/07/22 13:30

Client ID: 7-TW4-55 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	450		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
Xylenes, Total	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	400		ug/l	25	7.0	10
1,2-Dichloroethene, Total	400		ug/l	25	7.0	10
Dibromomethane	ND		ug/l	50	10.	10
1,2,3-Trichloropropane	ND		ug/l	25	7.0	10
Acrylonitrile	ND		ug/l	50	15.	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
Vinyl acetate	ND		ug/l	50	10.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
2,2-Dichloropropane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,3-Dichloropropane	ND		ug/l	25	7.0	10
1,1,1,2-Tetrachloroethane	ND		ug/l	25	7.0	10
Bromobenzene	ND		ug/l	25	7.0	10
n-Butylbenzene	ND		ug/l	25	7.0	10
sec-Butylbenzene	ND		ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
o-Chlorotoluene	ND		ug/l	25	7.0	10
p-Chlorotoluene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Hexachlorobutadiene	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	18	J	ug/l	25	7.0	10

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-03 D Date Collected: 04/07/22 13:30

Client ID: 7-TW4-55 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	ND		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	ND		ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	610	10
p-Diethylbenzene	ND		ug/l	20	7.0	10
p-Ethyltoluene	ND		ug/l	20	7.0	10
1,2,4,5-Tetramethylbenzene	ND		ug/l	20	5.4	10
Ethyl ether	ND		ug/l	25	7.0	10
trans-1,4-Dichloro-2-butene	ND		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-04 D
Client ID: 7-TW4-70
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/07/22 13:15
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/16/22 18:56
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	1300		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
1,3-Dichloropropene, Total	ND		ug/l	5.0	1.4	10
1,1-Dichloropropene	ND		ug/l	25	7.0	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	2.1	J	ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	50		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-04 D
Client ID: 7-TW4-70
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 04/07/22 13:15
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	560		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	7.2	J	ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
Xylenes, Total	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	550		ug/l	25	7.0	10
1,2-Dichloroethene, Total	550		ug/l	25	7.0	10
Dibromomethane	ND		ug/l	50	10.	10
1,2,3-Trichloropropane	ND		ug/l	25	7.0	10
Acrylonitrile	ND		ug/l	50	15.	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
Vinyl acetate	ND		ug/l	50	10.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
2,2-Dichloropropane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,3-Dichloropropane	ND		ug/l	25	7.0	10
1,1,1,2-Tetrachloroethane	ND		ug/l	25	7.0	10
Bromobenzene	ND		ug/l	25	7.0	10
n-Butylbenzene	ND		ug/l	25	7.0	10
sec-Butylbenzene	ND		ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
o-Chlorotoluene	ND		ug/l	25	7.0	10
p-Chlorotoluene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Hexachlorobutadiene	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	16	J	ug/l	25	7.0	10

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-04 D Date Collected: 04/07/22 13:15

Client ID: 7-TW4-70 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	ND		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	ND		ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	610	10
p-Diethylbenzene	ND		ug/l	20	7.0	10
p-Ethyltoluene	ND		ug/l	20	7.0	10
1,2,4,5-Tetramethylbenzene	ND		ug/l	20	5.4	10
Ethyl ether	ND		ug/l	25	7.0	10
trans-1,4-Dichloro-2-butene	ND		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	105		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-05
Client ID: 7-TW5-25
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/08/22 12:00
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/17/22 20:35
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	2.1	J	ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	3.7		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.45	J	ug/l	0.50	0.16	1
Toluene	0.83	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	1.5		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-05 Date Collected: 04/08/22 12:00

Client ID: 7-TW5-25 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	1.2		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	2.0	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	6.1		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	6.1		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	10		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.0	J	ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-05 Date Collected: 04/08/22 12:00

Client ID: 7-TW5-25 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	107		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-06
Client ID: 7-TW5-40
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/08/22 11:30
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/17/22 20:59
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	3.1		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	4.3		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.46	J	ug/l	0.50	0.16	1
Toluene	1.0	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	1.2		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-06 Date Collected: 04/08/22 11:30

Client ID: 7-TW5-40 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	1.5		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	2.6		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	8.7		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	8.7		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	13		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	2.9	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-06 Date Collected: 04/08/22 11:30

Client ID: 7-TW5-40 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	116		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-07
Client ID: 7-TW5-55
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/08/22 11:00
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/17/22 21:24
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	5.9		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	3.9		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.70		ug/l	0.50	0.16	1
Toluene	0.75	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.75	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.18	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-07 Date Collected: 04/08/22 11:00

Client ID: 7-TW5-55 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	2.4		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	6.9		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	14		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	14		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	24		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	4.4	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-07 Date Collected: 04/08/22 11:00

Client ID: 7-TW5-55 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	115		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-08
Client ID: 7-TW5-70
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/08/22 10:30
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/17/22 21:49
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	4.4		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	12		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.59		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	2.7		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.22	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-08 Date Collected: 04/08/22 10:30

Client ID: 7-TW5-70 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	5.6		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	4.5		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	28		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	28		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	38		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	4.8	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	0.82	J	ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-08 Date Collected: 04/08/22 10:30

Client ID: 7-TW5-70 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	115		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-09
Client ID: 7-TW6-25
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/07/22 12:15
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/17/22 22:14
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	8.3		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	5.8		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	1.2		ug/l	0.50	0.16	1
Toluene	2.9		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	3.5		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.84		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	0.87	J	ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-09 Date Collected: 04/07/22 12:15

Client ID: 7-TW6-25 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	1.5		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	2.7		ug/l	2.5	0.70	1
p/m-Xylene	1.2	J	ug/l	2.5	0.70	1
o-Xylene	0.86	J	ug/l	2.5	0.70	1
Xylenes, Total	2.1	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	32		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	33	J	ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	14		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	130		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-09 Date Collected: 04/07/22 12:15

Client ID: 7-TW6-25 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	1.0	J	ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	119		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-10
Client ID: 7-TW6-40
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/07/22 12:00
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/17/22 22:38
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	4.0		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	5.1		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.93		ug/l	0.50	0.16	1
Toluene	1.7	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	3.1		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.47	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	0.88	J	ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-10 Date Collected: 04/07/22 12:00

Client ID: 7-TW6-40 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	1.1		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	1.6	J	ug/l	2.5	0.70	1
p/m-Xylene	0.95	J	ug/l	2.5	0.70	1
o-Xylene	0.70	J	ug/l	2.5	0.70	1
Xylenes, Total	1.7	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	30		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	31	J	ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	6.0		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	120		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-10 Date Collected: 04/07/22 12:00

Client ID: 7-TW6-40 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	0.95	J	ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	119		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-11
Client ID: 7-TW6-55
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/07/22 10:10
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/16/22 19:21
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	2.6		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	5.6		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	1.7		ug/l	0.50	0.16	1
Toluene	2.3	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	3.5		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.31	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	0.87	J	ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-11 Date Collected: 04/07/22 10:10

Client ID: 7-TW6-55 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	1.6		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	0.78	J	ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	1.2	J	ug/l	2.5	0.70	1
p/m-Xylene	1.3	J	ug/l	2.5	0.70	1
o-Xylene	1.0	J	ug/l	2.5	0.70	1
Xylenes, Total	2.3	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	33		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	34	J	ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	12		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	2.0	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	200		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-11 Date Collected: 04/07/22 10:10

Client ID: 7-TW6-55 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	0.82	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	1.3	J	ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	0.84	J	ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	117		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-12
Client ID: 7-TW6-70
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/07/22 09:45
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/16/22 19:46
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	1.2	J	ug/l	2.5	0.70	1
Chloroform	1.6	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	26		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	1.4		ug/l	0.50	0.16	1
Toluene	6.5		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	3.6		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-12 Date Collected: 04/07/22 09:45

Client ID: 7-TW6-70 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	6.9		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	0.81	J	ug/l	2.5	0.70	1
p/m-Xylene	1.6	J	ug/l	2.5	0.70	1
o-Xylene	1.1	J	ug/l	2.5	0.70	1
Xylenes, Total	2.7	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	69		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	69		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	22		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	4.5	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	1.1	J	ug/l	2.5	0.70	1
Naphthalene	230	E	ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-12 Date Collected: 04/07/22 09:45

Client ID: 7-TW6-70 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	0.70	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	1.4	J	ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	107		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-12 D
Client ID: 7-TW6-70
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 04/07/22 09:45
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/20/22 00:31
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Naphthalene	82		ug/l	10	2.8	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	110		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-13
Client ID: 7-TW7-25
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/08/22 09:30
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/17/22 23:03
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	4.8		ug/l	2.5	0.70	1
Chloroform	1.2	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	46		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.38	J	ug/l	0.50	0.16	1
Toluene	1.0	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	2.6		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.49	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-13 Date Collected: 04/08/22 09:30

Client ID: 7-TW7-25 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	9.3		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	1.7	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	51		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	51		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	12		ug/l	5.0	1.5	1
Carbon disulfide	1.4	J	ug/l	5.0	1.0	1
2-Butanone	2.0	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	5.2		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-13 Date Collected: 04/08/22 09:30

Client ID: 7-TW7-25 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	107		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-14
Client ID: 7-TW7-40
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/08/22 09:00
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/17/22 19:21
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	5.4		ug/l	2.5	0.70	1
Chloroform	1.5	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	46		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.34	J	ug/l	0.50	0.16	1
Toluene	1.2	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	3.1		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.69		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-14 Date Collected: 04/08/22 09:00

Client ID: 7-TW7-40 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	11		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	1.6	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	59		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	59		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	15		ug/l	5.0	1.5	1
Carbon disulfide	2.1	J	ug/l	5.0	1.0	1
2-Butanone	2.6	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.6	J	ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-14 Date Collected: 04/08/22 09:00

Client ID: 7-TW7-40 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	110		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-15
Client ID: 7-TW7-55
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/08/22 08:45
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/17/22 19:45
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	5.9		ug/l	2.5	0.70	1
Chloroform	1.2	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	47		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.34	J	ug/l	0.50	0.16	1
Toluene	0.93	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	3.0		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.68		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-15 Date Collected: 04/08/22 08:45

Client ID: 7-TW7-55 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	12		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	1.7	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	55		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	55		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	14		ug/l	5.0	1.5	1
Carbon disulfide	2.3	J	ug/l	5.0	1.0	1
2-Butanone	2.3	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	2.0	J	ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-15 Date Collected: 04/08/22 08:45

Client ID: 7-TW7-55 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	112		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-16
Client ID: 7-TW7-70
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/08/22 08:15
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/17/22 20:10
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	4.5		ug/l	2.5	0.70	1
Chloroform	0.92	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	44		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.29	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	3.3		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.55		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	0.70	J	ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-16 Date Collected: 04/08/22 08:15

Client ID: 7-TW7-70 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	15		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	1.6	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	56		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	57	J	ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	30		ug/l	5.0	1.5	1
Carbon disulfide	3.8	J	ug/l	5.0	1.0	1
2-Butanone	3.6	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	2.6		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-16 Date Collected: 04/08/22 08:15

Client ID: 7-TW7-70 Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	107		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-17
Client ID: FIELD BLANK
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/07/22 09:15
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/16/22 16:51
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-17 Date Collected: 04/07/22 09:15

Client ID: FIELD BLANK Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-17 Date Collected: 04/07/22 09:15

Client ID: FIELD BLANK Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	118		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-18
Client ID: TRIP BLANK
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/06/22 00:00
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/16/22 17:16
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-18 Date Collected: 04/06/22 00:00

Client ID: TRIP BLANK Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-18 Date Collected: 04/06/22 00:00

Client ID: TRIP BLANK Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	117		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-19
Client ID: DUP
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 04/08/22 10:30
Date Received: 04/08/22
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 04/17/22 23:27
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	5.8		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	4.0		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.66		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.91	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.17	J	ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-19 Date Collected: 04/08/22 10:30

Client ID: DUP Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	2.1		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	6.6		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	15		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	15		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	21		ug/l	5.0	1.5	1
Carbon disulfide	1.2	J	ug/l	5.0	1.0	1
2-Butanone	4.3	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.0	J	ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2218426

Project Number: 17244793 **Report Date:** 04/22/22

SAMPLE RESULTS

Lab ID: L2218426-19 Date Collected: 04/08/22 10:30

Client ID: DUP Date Received: 04/08/22

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	117		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/16/22 11:26
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,11-12,17-18 Batch: WG1628250-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/16/22 11:26
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,11-12,17-18 Batch: WG1628250-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/16/22 11:26
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04,11-12,17-18 Batch: WG1628250-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	118		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/17/22 16:29
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-10,13-16,19 Batch: WG1628753-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/17/22 16:29
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-10,13-16,19 Batch: WG1628753-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/17/22 16:29
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-10,13-16,19 Batch: WG1628753-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	115		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/19/22 17:45
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1628994-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/19/22 17:45
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1628994-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/19/22 17:45
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1628994-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	0.95	J	ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	113		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2218426
Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,11-12,17-18 Batch: WG1628250-3 WG1628250-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	91		99		70-130	8		20
Dibromochloromethane	89		92		63-130	3		20
1,1,2-Trichloroethane	76		81		70-130	6		20
Tetrachloroethene	96		100		70-130	4		20
Chlorobenzene	94		98		75-130	4		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	94		99		67-130	5		20
trans-1,3-Dichloropropene	71		80		70-130	12		20
cis-1,3-Dichloropropene	76		83		70-130	9		20
1,1-Dichloropropene	97		100		70-130	3		20
Bromoform	81		85		54-136	5		20
1,1,2,2-Tetrachloroethane	89		92		67-130	3		20
Benzene	95		100		70-130	5		20
Toluene	93		98		70-130	5		20
Ethylbenzene	98		100		70-130	2		20
Chloromethane	100		100		64-130	0		20
Bromomethane	45		60		39-139	**29**	Q	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2218426

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,11-12,17-18 Batch: WG1628250-3 WG1628250-4								
Vinyl chloride	99		100		55-140	1		20
Chloroethane	99		99		55-138	0		20
1,1-Dichloroethene	120		120		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	92		98		70-130	6		20
1,2-Dichlorobenzene	96		100		70-130	4		20
1,3-Dichlorobenzene	95		98		70-130	3		20
1,4-Dichlorobenzene	96		97		70-130	1		20
Methyl tert butyl ether	83		93		63-130	11		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	100		110		70-130	10		20
Dibromomethane	98		98		70-130	0		20
1,2,3-Trichloropropane	87		90		64-130	3		20
Acrylonitrile	110		100		70-130	10		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	110		110		36-147	0		20
Acetone	130		110		58-148	17		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	99		93		63-138	6		20
Vinyl acetate	76		79		70-130	4		20
4-Methyl-2-pentanone	86		88		59-130	2		20
2-Hexanone	86		89		57-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2218426

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04,11-12,17-18 Batch: WG1628250-3 WG1628250-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	96		110		63-133	14		20
1,2-Dibromoethane	88		92		70-130	4		20
1,3-Dichloropropane	86		91		70-130	6		20
1,1,1,2-Tetrachloroethane	83		88		64-130	6		20
Bromobenzene	94		100		70-130	6		20
n-Butylbenzene	100		110		53-136	10		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	97		100		70-130	3		20
o-Chlorotoluene	96		100		70-130	4		20
p-Chlorotoluene	96		100		70-130	4		20
1,2-Dibromo-3-chloropropane	82		83		41-144	1		20
Hexachlorobutadiene	98		100		63-130	2		20
Isopropylbenzene	100		110		70-130	10		20
p-Isopropyltoluene	92		97		70-130	5		20
Naphthalene	82		86		70-130	5		20
n-Propylbenzene	99		100		69-130	1		20
1,2,3-Trichlorobenzene	92		98		70-130	6		20
1,2,4-Trichlorobenzene	93		99		70-130	6		20
1,3,5-Trimethylbenzene	98		100		64-130	2		20
1,2,4-Trimethylbenzene	98		100		70-130	2		20
1,4-Dioxane	116		110		56-162	5		20
p-Diethylbenzene	93		97		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2218426

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab	Associated sample(s):	01-04,11-12,17-18	Batch:	WG1628250-3	WG1628250-4			
p-Ethyltoluene	98		100		70-130	2		20
1,2,4,5-Tetramethylbenzene	90		95		70-130	5		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	**68**	Q	80		70-130	16		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		101		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	106		106		70-130
Dibromofluoromethane	106		102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2218426
Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-10,13-16,19 Batch: WG1628753-3 WG1628753-4								
Methylene chloride	97		100		70-130	3		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	98		100		70-130	2		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	95		98		70-130	3		20
Dibromochloromethane	97		92		63-130	5		20
1,1,2-Trichloroethane	80		80		70-130	0		20
Tetrachloroethene	99		97		70-130	2		20
Chlorobenzene	97		96		75-130	1		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	95		100		70-130	5		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	92		96		67-130	4		20
trans-1,3-Dichloropropene	81		77		70-130	5		20
cis-1,3-Dichloropropene	79		81		70-130	3		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	80		82		54-136	2		20
1,1,2,2-Tetrachloroethane	89		92		67-130	3		20
Benzene	98		99		70-130	1		20
Toluene	99		95		70-130	4		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	100		100		64-130	0		20
Bromomethane	67		67		39-139	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2218426

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-10,13-16,19 Batch: WG1628753-3 WG1628753-4								
Vinyl chloride	97		99		55-140	2		20
Chloroethane	90		94		55-138	4		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	100		110		70-130	10		20
Trichloroethene	96		94		70-130	2		20
1,2-Dichlorobenzene	96		98		70-130	2		20
1,3-Dichlorobenzene	96		96		70-130	0		20
1,4-Dichlorobenzene	96		98		70-130	2		20
Methyl tert butyl ether	82		86		63-130	5		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	98		100		70-130	2		20
Dibromomethane	91		96		70-130	5		20
1,2,3-Trichloropropane	90		88		64-130	2		20
Acrylonitrile	86		95		70-130	10		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	90		100		58-148	11		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	84		95		63-138	12		20
Vinyl acetate	75		79		70-130	5		20
4-Methyl-2-pentanone	71		73		59-130	3		20
2-Hexanone	68		82		57-130	19		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2218426
Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-10,13-16,19 Batch: WG1628753-3 WG1628753-4								
Bromochloromethane	90		100		70-130	11		20
2,2-Dichloropropane	120		120		63-133	0		20
1,2-Dibromoethane	87		87		70-130	0		20
1,3-Dichloropropane	90		88		70-130	2		20
1,1,1,2-Tetrachloroethane	86		83		64-130	4		20
Bromobenzene	97		96		70-130	1		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	94		90		70-130	4		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	77		81		41-144	5		20
Hexachlorobutadiene	98		100		63-130	2		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	94		95		70-130	1		20
Naphthalene	76		81		70-130	6		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	89		94		70-130	5		20
1,2,4-Trichlorobenzene	91		94		70-130	3		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
1,4-Dioxane	76		88		56-162	15		20
p-Diethylbenzene	93		94		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2218426

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-10,13-16,19 Batch: WG1628753-3 WG1628753-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	89		89		70-130	0		20
Ethyl ether	87		94		59-134	8		20
trans-1,4-Dichloro-2-butene	90		88		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		101		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	111		108		70-130
Dibromofluoromethane	97		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2218426
Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1628994-3 WG1628994-4								
Methylene chloride	85		80		70-130	6		20
1,1-Dichloroethane	100		97		70-130	3		20
Chloroform	100		96		70-130	4		20
Carbon tetrachloride	100		98		63-132	2		20
1,2-Dichloropropane	95		89		70-130	7		20
Dibromochloromethane	95		92		63-130	3		20
1,1,2-Trichloroethane	94		90		70-130	4		20
Tetrachloroethene	120		110		70-130	9		20
Chlorobenzene	100		95		75-130	5		20
Trichlorofluoromethane	91		86		62-150	6		20
1,2-Dichloroethane	93		88		70-130	6		20
1,1,1-Trichloroethane	97		94		67-130	3		20
Bromodichloromethane	90		88		67-130	2		20
trans-1,3-Dichloropropene	89		83		70-130	7		20
cis-1,3-Dichloropropene	86		85		70-130	1		20
1,1-Dichloropropene	96		92		70-130	4		20
Bromoform	94		97		54-136	3		20
1,1,2,2-Tetrachloroethane	86		86		67-130	0		20
Benzene	100		94		70-130	6		20
Toluene	100		95		70-130	5		20
Ethylbenzene	96		89		70-130	8		20
Chloromethane	100		100		64-130	0		20
Bromomethane	78		72		39-139	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2218426

Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1628994-3 WG1628994-4								
Vinyl chloride	110		100		55-140	10		20
Chloroethane	67		65		55-138	3		20
1,1-Dichloroethene	88		84		61-145	5		20
trans-1,2-Dichloroethene	82		80		70-130	2		20
Trichloroethene	100		98		70-130	2		20
1,2-Dichlorobenzene	100		98		70-130	2		20
1,3-Dichlorobenzene	100		98		70-130	2		20
1,4-Dichlorobenzene	100		97		70-130	3		20
Methyl tert butyl ether	85		85		63-130	0		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	95		90		70-130	5		20
cis-1,2-Dichloroethene	100		97		70-130	3		20
Dibromomethane	96		91		70-130	5		20
1,2,3-Trichloropropane	82		82		64-130	0		20
Acrylonitrile	95		90		70-130	5		20
Styrene	95		90		70-130	5		20
Dichlorodifluoromethane	110		110		36-147	0		20
Acetone	70		71		58-148	1		20
Carbon disulfide	84		82		51-130	2		20
2-Butanone	93		97		63-138	4		20
Vinyl acetate	79		77		70-130	3		20
4-Methyl-2-pentanone	78		78		59-130	0		20
2-Hexanone	80		79		57-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2218426
Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1628994-3 WG1628994-4								
Bromochloromethane	120		110		70-130	9		20
2,2-Dichloropropane	98		94		63-133	4		20
1,2-Dibromoethane	98		93		70-130	5		20
1,3-Dichloropropane	97		90		70-130	7		20
1,1,1,2-Tetrachloroethane	95		89		64-130	7		20
Bromobenzene	100		100		70-130	0		20
n-Butylbenzene	87		83		53-136	5		20
sec-Butylbenzene	93		90		70-130	3		20
tert-Butylbenzene	94		91		70-130	3		20
o-Chlorotoluene	93		90		70-130	3		20
p-Chlorotoluene	95		91		70-130	4		20
1,2-Dibromo-3-chloropropane	92		100		41-144	8		20
Hexachlorobutadiene	100		100		63-130	0		20
Isopropylbenzene	92		88		70-130	4		20
p-Isopropyltoluene	91		88		70-130	3		20
Naphthalene	85		84		70-130	1		20
n-Propylbenzene	88		86		69-130	2		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20
1,2,4-Trichlorobenzene	96		94		70-130	2		20
1,3,5-Trimethylbenzene	88		84		64-130	5		20
1,2,4-Trimethylbenzene	86		84		70-130	2		20
1,4-Dioxane	94		92		56-162	2		20
p-Diethylbenzene	87		84		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2218426
Report Date: 04/22/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1628994-3 WG1628994-4								
p-Ethyltoluene	93		90		70-130	3		20
1,2,4,5-Tetramethylbenzene	85		81		70-130	5		20
Ethyl ether	75		74		59-134	1		20
trans-1,4-Dichloro-2-butene	87		88		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		92		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	95		98		70-130
Dibromofluoromethane	101		101		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Client ID: 7-TW7-70	Associated sample(s): 05-10,13-16,19					QC Batch ID: WG1628753-8			WG1628753-9	QC Sample: L2218426-16		
Methylene chloride	ND	10	11	110		11	110		70-130	0		20
1,1-Dichloroethane	4.5	10	16	115		17	125		70-130	6		20
Chloroform	0.92J	10	12	120		12	120		70-130	0		20
Carbon tetrachloride	ND	10	12	120		12	120		63-132	0		20
1,2-Dichloropropane	ND	10	11	110		11	110		70-130	0		20
Dibromochloromethane	ND	10	10	100		10	100		63-130	0		20
1,1,2-Trichloroethane	ND	10	9.5	95		9.5	95		70-130	0		20
Tetrachloroethene	44	10	70	**260**	Q	70	**260**	Q	70-130	0		20
Chlorobenzene	ND	10	11	110		11	110		75-130	0		20
Trichlorofluoromethane	ND	10	13	130		13	130		62-150	0		20
1,2-Dichloroethane	ND	10	11	110		11	110		70-130	0		20
1,1,1-Trichloroethane	ND	10	12	120		13	130		67-130	8		20
Bromodichloromethane	ND	10	10	100		11	110		67-130	10		20
trans-1,3-Dichloropropene	ND	10	8.9	89		9.2	92		70-130	3		20
cis-1,3-Dichloropropene	ND	10	8.8	88		9.0	90		70-130	2		20
1,1-Dichloropropene	ND	10	12	120		12	120		70-130	0		20
Bromoform	ND	10	9.1	91		9.4	94		54-136	3		20
1,1,2,2-Tetrachloroethane	ND	10	10	100		10	100		67-130	0		20
Benzene	0.29J	10	12	120		12	120		70-130	0		20
Toluene	ND	10	12	120		12	120		70-130	0		20
Ethylbenzene	ND	10	11	110		12	120		70-130	9		20
Chloromethane	ND	10	12	120		12	120		64-130	0		20
Bromomethane	ND	10	7.0	70		7.9	79		39-139	12		20

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Client ID: 7-TW7-70	Associated sample(s): 05-10,13-16,19					QC Batch ID: WG1628753-8	WG1628753-9		QC Sample: L2218426-16			
Vinyl chloride	3.3	10	16	127		16	127		55-140	0		20
Chloroethane	ND	10	10	100		11	110		55-138	10		20
1,1-Dichloroethene	0.55	10	13	125		13	125		61-145	0		20
trans-1,2-Dichloroethene	0.70J	10	12	120		13	130		70-130	8		20
Trichloroethene	15	10	30	**150**	Q	31	**160**	Q	70-130	3		20
1,2-Dichlorobenzene	ND	10	11	110		11	110		70-130	0		20
1,3-Dichlorobenzene	ND	10	10	100		9.9	99		70-130	1		20
1,4-Dichlorobenzene	ND	10	10	100		10	100		70-130	0		20
Methyl tert butyl ether	1.6J	10	12	120		12	120		63-130	0		20
p/m-Xylene	ND	20	22	110		22	110		70-130	0		20
o-Xylene	ND	20	22	110		22	110		70-130	0		20
cis-1,2-Dichloroethene	56	10	76	**200**	Q	77	**210**	Q	70-130	1		20
Dibromomethane	ND	10	10	100		10	100		70-130	0		20
1,2,3-Trichloropropane	ND	10	10	100		10	100		64-130	0		20
Acrylonitrile	ND	10	10	100		11	110		70-130	10		20
Styrene	ND	20	20	100		20	100		70-130	0		20
Dichlorodifluoromethane	ND	10	11	110		11	110		36-147	0		20
Acetone	30	10	36	60		38	80		58-148	5		20
Carbon disulfide	3.8J	10	14	**140**	Q	14	**140**	Q	51-130	0		20
2-Butanone	3.6J	10	13	130		15	**150**	Q	63-138	14		20
Vinyl acetate	ND	10	9.0	90		9.3	93		70-130	3		20
4-Methyl-2-pentanone	ND	10	9.6	96		10	100		59-130	4		20
2-Hexanone	ND	10	10	100		11	110		57-130	10		20

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2218426

Report Date: 04/22/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Client ID: 7-TW7-70	Associated sample(s): 05-10,13-16,19					QC Batch ID: WG1628753-8			WG1628753-9	QC Sample: L2218426-16		
Bromochloromethane	ND	10	10	100		11	110		70-130	10		20
2,2-Dichloropropane	ND	10	11	110		11	110		63-133	0		20
1,2-Dibromoethane	ND	10	10	100		11	110		70-130	10		20
1,3-Dichloropropane	ND	10	11	110		11	110		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	10	10	100		10	100		64-130	0		20
Bromobenzene	ND	10	11	110		11	110		70-130	0		20
n-Butylbenzene	ND	10	10	100		9.7	97		53-136	3		20
sec-Butylbenzene	ND	10	11	110		10	100		70-130	10		20
tert-Butylbenzene	ND	10	10	100		10	100		70-130	0		20
o-Chlorotoluene	ND	10	11	110		11	110		70-130	0		20
p-Chlorotoluene	ND	10	11	110		11	110		70-130	0		20
1,2-Dibromo-3-chloropropane	ND	10	9.2	92		9.4	94		41-144	2		20
Hexachlorobutadiene	ND	10	9.6	96		9.5	95		63-130	1		20
Isopropylbenzene	ND	10	12	120		11	110		70-130	9		20
p-Isopropyltoluene	ND	10	9.8	98		9.6	96		70-130	2		20
Naphthalene	2.6	10	13	104		13	104		70-130	0		20
n-Propylbenzene	ND	10	11	110		11	110		69-130	0		20
1,2,3-Trichlorobenzene	ND	10	9.3	93		9.4	94		70-130	1		20
1,2,4-Trichlorobenzene	ND	10	9.4	94		9.2	92		70-130	2		20
1,3,5-Trimethylbenzene	ND	10	11	110		11	110		64-130	0		20
1,2,4-Trimethylbenzene	ND	10	12	120		11	110		70-130	9		20
1,4-Dioxane	ND	500	410	82		410	82		56-162	0		20
p-Diethylbenzene	ND	10	9.8	98		9.6	96		70-130	2		20

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2218426
Report Date: 04/22/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Client ID: 7-TW7-70	Associated sample(s): 05-10,13-16,19					QC Batch ID: WG1628753-8			WG1628753-9	QC Sample: L2218426-16		
p-Ethyltoluene	ND	10	11	110		11	110		70-130	0		20
1,2,4,5-Tetramethylbenzene	ND	10	9.5	95		9.2	92		70-130	3		20
Ethyl ether	ND	10	10	100		11	110		59-134	10		20
trans-1,4-Dichloro-2-butene	ND	10	8.8	88		9.2	92		70-130	4		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		99		70-130
4-Bromofluorobenzene	109		106		70-130
Dibromofluoromethane	96		96		70-130
Toluene-d8	102		102		70-130

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2218426
Report Date: 04/22/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2218426-01A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-01B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-01C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-02A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-02B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-02C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-03A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-03B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-03C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-04A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-04B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-04C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-05A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-05B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-05C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-06A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-06B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-06C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-07A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-07B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-07C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-08A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-08B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2218426
Report Date: 04/22/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2218426-08C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-09A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-09B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-09C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-10A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-10B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-10C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-11A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-11B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-11C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-12A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-12B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-12C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-13A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-13B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-13C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-14A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-14B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-14C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-15A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-15B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-15C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-16A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-16A1	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-16A2	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-16B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-16B1	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-16B2	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2218426
Report Date: 04/22/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2218426-16C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-16C1	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-16C2	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-17A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-17B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-17C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-18A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-18B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-19A	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-19B	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)
L2218426-19C	Vial HCl preserved	A	NA		3.4	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	AVANT GARDNER	**Lab Number:**	L2218426
Project Number:	17244793	**Report Date:**	04/22/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2218426
Project Number:	17244793	**Report Date:**	04/22/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2218426
Project Number:	17244793	**Report Date:**	04/22/22

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2218426
Project Number:	17244793	**Report Date:**	04/22/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 3

Date Rec'd in Lab: 4/8/22

ALPHA Job #: L2218426

Client Information
Client: Partner
Address: 611 Industrial Way West
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLeat@partnereis.com

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave., Brooklyn, NY
Project #: 17244793
(Use Project name as Project #) ☐
Project Manager: David Leat
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☒ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	Total Bottle	Sample Specific Comments
18426-01	7-TW4-25	4-7-22	14:00	GW	RH	X		
02	7-TW4-40	↓	13:45	↓	↓	X		
03	7-TW4-55		13:30			X		
04	7-TW4-70	↓	13:15			X		
05	7-TW5-25	4-8-22	12:00			X		
06	7-TW5-40	↓	11:30			X		
07	7-TW5-55		11:00			X		
08	7-TW5-70	↓	10:30			X		
09	7-TW6-25	4-7-22	12:15			X		
10	7-TW6-40	↓	12:00	↓	↓	X		

Container Type: V
Preservative: B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Robert Haggerty/PES	4/8/22	Christopher Tuma/ALPHA	4/8/22 13:48
Christopher Tuma/ALPHA	4/8/22 13:50	Paul Mazzella	4/8/22 16:30
Paul Mazzella	4/8/22	Joseph C. Bizzarro Jr.	4/8/22 2017
Joseph C. Bizzarro Jr.	4/8/22 2316		4/8/22 2316

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 3

Date Rec'd in Lab: 4/8/22

ALPHA Job #: L2218426

Client Information
Client: Partner
Address: 611 Industrial Way West
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLent@partnaresi.com

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn, NY
Project #: 17244793
(Use Project name as Project #) ☐
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☒ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	Total Bottle	Sample Specific Comments
18426-11	7-TW6-55	4-7-22	10:10	GW	RH	X		
12	7-TW6-70	↓	9:45			X		
13	7-TW7-25	4-8-22	9:30			X		
14	7-TW7-40		9:00			X		
15	7-TW7-55		8:45			X		
16	7-TW7-70	↓	8:15	↓		X		
17	Field Blank	4-7-22	9:15	W		X		
18	Trip Blank	4-6-22	4:46	↓		X		
19	DUP	4-8-22	10:30	GW		X		
16	7-TW7-70-MS	4-8-22	8:15	↓	↓	X		

Container Type: V
Preservative: B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Robert Hayward/PES	4/8/22	AAL	4/8/22 13:40
AAL	4/8/22 13:50	Paul Macaella	4/8/22 16:20
Paul Macaella	4/8/22	Joseph C. Bisignano	4/11/22 2057
Joseph C. Bisignano	4/11/22 2316		4/8/22 2316

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

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Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: 3 of 3

Date Rec'd in Lab: 4/8/22

ALPHA Job #: L2218426

Client Information

Client: Partner
Address: 611 Industrial Way West, Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLent@partnereai.com

Project Information

Project Name: Avant Gardner
Project Location: 140 Stewart Ave., Brooklyn, NY
Project #: 17244793
(Use Project name as Project #) ☐
Project Manager: David Lent
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☒ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	Sample Specific Comments	Total Bottle
18426-16	7-TW7-70-MSD	4-8-22	8:15	GW	RH	X		

Container Type: V
Preservative: B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible] PES	4/8/22	[illegible] AAL	4/8/22 13:43
[illegible] AAL	4/8/22 13:50	Paul Mazzella	4/8/22 16:30
Paul Mazzella	4/8/22	[illegible]	4/8/22 2054
[illegible]	4/8/22 2316		4/8/22 2314

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2128067
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER
Project Number:	17244793
Report Date:	06/08/21

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2128067-01	10-TW1 (5-15)	WATER	140 STEWART AVE., BROOKLYN, NY	05/24/21 08:45	05/26/21
L2128067-02	10-TW2 (65-70)	WATER	140 STEWART AVE., BROOKLYN, NY	05/24/21 09:15	05/26/21
L2128067-03	10-TW2 (105-110)	WATER	140 STEWART AVE., BROOKLYN, NY	05/24/21 11:00	05/26/21
L2128067-04	7-TW1 (25-30)	WATER	140 STEWART AVE., BROOKLYN, NY	05/24/21 13:55	05/26/21
L2128067-05	10-TW1 (20-30)	WATER	140 STEWART AVE., BROOKLYN, NY	05/25/21 08:00	05/26/21
L2128067-06	3-TW1 (105-110)	WATER	140 STEWART AVE., BROOKLYN, NY	05/25/21 11:00	05/26/21
L2128067-07	3-TW1 (65-70)	WATER	140 STEWART AVE., BROOKLYN, NY	05/25/21 11:30	05/26/21
L2128067-08	2-TW1 (10-20)	WATER	140 STEWART AVE., BROOKLYN, NY	05/25/21 13:40	05/26/21
L2128067-09	1-TW1 (5-15)	WATER	140 STEWART AVE., BROOKLYN, NY	05/26/21 12:00	05/26/21
L2128067-10	FIELD BLANK	FIELD BLANK	140 STEWART AVE., BROOKLYN, NY	05/25/21 14:00	05/26/21
L2128067-11	TRIP BLANK	TRIP BLANK (AQUEOUS)	140 STEWART AVE., BROOKLYN, NY	05/06/21 00:00	05/26/21

Project Name:	AVANT GARDNER	**Lab Number:**	L2128067
Project Number:	17244793	**Report Date:**	06/08/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2128067-05 was received in the proper acid-preserved containers; however, upon analysis, the pH was determined to be greater than 2, and thus the method required holding time was exceeded.

Semivolatile Organics

The WG1505663-3 LCSD recovery, associated with L2128067-05, is below the acceptance criteria for benzoic acid (0%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

Semivolatile Organics by SIM

The WG1505416-1 Method Blank, associated with L2128067-01 and -04, has concentrations above the reporting limits for naphthalene and 2-methylnaphthalene; however, re-extraction outside of holding time achieved similar results for 2-methylnaphthalene. The results of the original analyses are reported and are qualified with a "B".

The WG1506557-1 Method Blank, associated with L2128067-01RE and -04RE, has a concentration above the reporting limit for 2-methylnaphthalene. Further re-extraction could not be performed due to lack of additional sample volume. The results of the original analyses are reported and are qualified with a "B".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 06/08/21

ORGANICS

VOLATILES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-01
Client ID: 10-TW1 (5-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/24/21 08:45
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/02/21 22:42
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.28	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.14	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-01 Date Collected: 05/24/21 08:45

Client ID: 10-TW1 (5-15) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	10		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-01 Date Collected: 05/24/21 08:45

Client ID: 10-TW1 (5-15) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	107		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-02 D
Client ID: 10-TW2 (65-70)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/24/21 09:15
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/02/21 23:04
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	260		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	2.1	J	ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
1,3-Dichloropropene, Total	ND		ug/l	1.0	0.29	2
1,1-Dichloropropene	ND		ug/l	5.0	1.4	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.33	2
Benzene	ND		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	0.86	J	ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	1.0		ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-02 D
Client ID: 10-TW2 (65-70)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/24/21 09:15
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	86		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
Xylenes, Total	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	6.2		ug/l	5.0	1.4	2
1,2-Dichloroethene, Total	6.2		ug/l	5.0	1.4	2
Dibromomethane	ND		ug/l	10	2.0	2
1,2,3-Trichloropropane	ND		ug/l	5.0	1.4	2
Acrylonitrile	ND		ug/l	10	3.0	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	21		ug/l	10	2.0	2
Acetone	ND		ug/l	10	2.9	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	ND		ug/l	10	3.9	2
Vinyl acetate	ND		ug/l	10	2.0	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	ND		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
2,2-Dichloropropane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
1,3-Dichloropropane	ND		ug/l	5.0	1.4	2
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	1.4	2
Bromobenzene	ND		ug/l	5.0	1.4	2
n-Butylbenzene	ND		ug/l	5.0	1.4	2
sec-Butylbenzene	ND		ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
o-Chlorotoluene	ND		ug/l	5.0	1.4	2
p-Chlorotoluene	ND		ug/l	5.0	1.4	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Hexachlorobutadiene	ND		ug/l	5.0	1.4	2
Isopropylbenzene	ND		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
Naphthalene	ND		ug/l	5.0	1.4	2

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-02 D Date Collected: 05/24/21 09:15

Client ID: 10-TW2 (65-70) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,4-Dioxane	ND		ug/l	500	120	2
p-Diethylbenzene	ND		ug/l	4.0	1.4	2
p-Ethyltoluene	ND		ug/l	4.0	1.4	2
1,2,4,5-Tetramethylbenzene	ND		ug/l	4.0	1.1	2
Ethyl ether	ND		ug/l	5.0	1.4	2
trans-1,4-Dichloro-2-butene	ND		ug/l	5.0	1.4	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-03
Client ID: 10-TW2 (105-110)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/24/21 11:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/02/21 23:25
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	1.1	J	ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	220	E	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	2.1	J	ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.17	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.20	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	1.1		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-03 Date Collected: 05/24/21 11:00

Client ID: 10-TW2 (105-110) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	100		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	2.9		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	2.9		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	9.8		ug/l	5.0	1.0	1
Acetone	4.7	J	ug/l	5.0	1.5	1
Carbon disulfide	1.3	J	ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-03 Date Collected: 05/24/21 11:00

Client ID: 10-TW2 (105-110) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	105		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-03 D
Client ID: 10-TW2 (105-110)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/24/21 11:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/03/21 23:11
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Tetrachloroethene	230		ug/l	2.5	0.90	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-04 D
Client ID: 7-TW1 (25-30)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/24/21 13:55
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/02/21 23:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	18	J	ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	1400		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
1,3-Dichloropropene, Total	ND		ug/l	5.0	1.4	10
1,1-Dichloropropene	ND		ug/l	25	7.0	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	12		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-04 D Date Collected: 05/24/21 13:55

Client ID: 7-TW1 (25-30) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	77		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
Xylenes, Total	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	48		ug/l	25	7.0	10
1,2-Dichloroethene, Total	48		ug/l	25	7.0	10
Dibromomethane	ND		ug/l	50	10.	10
1,2,3-Trichloropropane	ND		ug/l	25	7.0	10
Acrylonitrile	ND		ug/l	50	15.	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
Vinyl acetate	ND		ug/l	50	10.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
2,2-Dichloropropane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,3-Dichloropropane	ND		ug/l	25	7.0	10
1,1,1,2-Tetrachloroethane	ND		ug/l	25	7.0	10
Bromobenzene	ND		ug/l	25	7.0	10
n-Butylbenzene	ND		ug/l	25	7.0	10
sec-Butylbenzene	ND		ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
o-Chlorotoluene	ND		ug/l	25	7.0	10
p-Chlorotoluene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Hexachlorobutadiene	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	ND		ug/l	25	7.0	10

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-04 D Date Collected: 05/24/21 13:55

Client ID: 7-TW1 (25-30) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	ND		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	ND		ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	610	10
p-Diethylbenzene	ND		ug/l	20	7.0	10
p-Ethyltoluene	ND		ug/l	20	7.0	10
1,2,4,5-Tetramethylbenzene	ND		ug/l	20	5.4	10
Ethyl ether	ND		ug/l	25	7.0	10
trans-1,4-Dichloro-2-butene	ND		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-05
Client ID: 10-TW1 (20-30)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/25/21 08:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/03/21 00:08
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	2.5		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	6.6		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.20	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-05 Date Collected: 05/25/21 08:00

Client ID: 10-TW1 (20-30) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.28	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.7	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-05 Date Collected: 05/25/21 08:00

Client ID: 10-TW1 (20-30) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	106		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-06 D
Client ID: 3-TW1 (105-110)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/25/21 11:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/03/21 00:30
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	240		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	3.6	J	ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
1,3-Dichloropropene, Total	ND		ug/l	1.0	0.29	2
1,1-Dichloropropene	ND		ug/l	5.0	1.4	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.33	2
Benzene	ND		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	0.29	J	ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	ND		ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-06 D
Client ID: 3-TW1 (105-110)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/25/21 11:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	48		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	2.5	J	ug/l	5.0	1.4	2
p/m-Xylene	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
Xylenes, Total	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	4.6	J	ug/l	5.0	1.4	2
1,2-Dichloroethene, Total	4.6	J	ug/l	5.0	1.4	2
Dibromomethane	ND		ug/l	10	2.0	2
1,2,3-Trichloropropane	ND		ug/l	5.0	1.4	2
Acrylonitrile	ND		ug/l	10	3.0	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	2.5	J	ug/l	10	2.0	2
Acetone	ND		ug/l	10	2.9	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	ND		ug/l	10	3.9	2
Vinyl acetate	ND		ug/l	10	2.0	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	ND		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
2,2-Dichloropropane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
1,3-Dichloropropane	ND		ug/l	5.0	1.4	2
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	1.4	2
Bromobenzene	ND		ug/l	5.0	1.4	2
n-Butylbenzene	ND		ug/l	5.0	1.4	2
sec-Butylbenzene	ND		ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
o-Chlorotoluene	ND		ug/l	5.0	1.4	2
p-Chlorotoluene	ND		ug/l	5.0	1.4	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Hexachlorobutadiene	ND		ug/l	5.0	1.4	2
Isopropylbenzene	ND		ug/l	5.0	1.4	2
p-Isopropyltoluene	1.7	J	ug/l	5.0	1.4	2
Naphthalene	ND		ug/l	5.0	1.4	2

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-06 D Date Collected: 05/25/21 11:00

Client ID: 3-TW1 (105-110) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,4-Dioxane	ND		ug/l	500	120	2
p-Diethylbenzene	ND		ug/l	4.0	1.4	2
p-Ethyltoluene	ND		ug/l	4.0	1.4	2
1,2,4,5-Tetramethylbenzene	ND		ug/l	4.0	1.1	2
Ethyl ether	ND		ug/l	5.0	1.4	2
trans-1,4-Dichloro-2-butene	ND		ug/l	5.0	1.4	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	105		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-07
Client ID: 3-TW1 (65-70)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/25/21 11:30
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/03/21 00:51
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	1.3	J	ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	42		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.12	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-07 Date Collected: 05/25/21 11:30

Client ID: 3-TW1 (65-70) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	12		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	10		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	10		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	2.5	J	ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	3.0		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-07 Date Collected: 05/25/21 11:30

Client ID: 3-TW1 (65-70) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	110		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-08
Client ID: 2-TW1 (10-20)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/25/21 13:40
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/02/21 21:25
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	2.7		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.78		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-08 Date Collected: 05/25/21 13:40

Client ID: 2-TW1 (10-20) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.19	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	6.1		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	1.9	J	ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-08 Date Collected: 05/25/21 13:40

Client ID: 2-TW1 (10-20) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	93		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-09
Client ID: 1-TW1 (5-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/26/21 12:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/02/21 21:02
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	1.1	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	1.7		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.24	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-09 Date Collected: 05/26/21 12:00

Client ID: 1-TW1 (5-15) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	5.2		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	14		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-09 Date Collected: 05/26/21 12:00

Client ID: 1-TW1 (5-15) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	92		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-10
Client ID: FIELD BLANK
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/25/21 14:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Field Blank
Analytical Method: 1,8260C
Analytical Date: 06/02/21 20:39
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	1.0	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-10 Date Collected: 05/25/21 14:00

Client ID: FIELD BLANK Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.1	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-10 Date Collected: 05/25/21 14:00

Client ID: FIELD BLANK Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	92		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-11
Client ID: TRIP BLANK
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/06/21 00:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Trip Blank (Aqueous)
Analytical Method: 1,8260C
Analytical Date: 06/02/21 20:15
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-11 Date Collected: 05/06/21 00:00

Client ID: TRIP BLANK Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-11 Date Collected: 05/06/21 00:00

Client ID: TRIP BLANK Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	93		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/03/21 19:40
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1507696-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/03/21 19:40
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1507696-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/03/21 19:40
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1507696-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/02/21 18:27
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1507736-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/02/21 18:27
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1507736-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/02/21 18:27
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1507736-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/02/21 19:52
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-11 Batch: WG1507738-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/02/21 19:52
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-11 Batch: WG1507738-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/02/21 19:52
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-11 Batch: WG1507738-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	92		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1507696-3 WG1507696-4								
Methylene chloride	100		98		70-130	2		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	97		91		70-130	6		20
Carbon tetrachloride	97		95		63-132	2		20
1,2-Dichloropropane	110		100		70-130	10		20
Dibromochloromethane	95		86		63-130	10		20
1,1,2-Trichloroethane	98		91		70-130	7		20
Tetrachloroethene	98		92		70-130	6		20
Chlorobenzene	100		95		75-130	5		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	95		90		70-130	5		20
1,1,1-Trichloroethane	88		88		67-130	0		20
Bromodichloromethane	92		91		67-130	1		20
trans-1,3-Dichloropropene	83		79		70-130	5		20
cis-1,3-Dichloropropene	90		87		70-130	3		20
1,1-Dichloropropene	98		92		70-130	6		20
Bromoform	97		90		54-136	7		20
1,1,2,2-Tetrachloroethane	99		94		67-130	5		20
Benzene	99		96		70-130	3		20
Toluene	94		90		70-130	4		20
Ethylbenzene	98		93		70-130	5		20
Chloromethane	94		97		64-130	3		20
Bromomethane	120		99		39-139	19		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1507696-3 WG1507696-4								
Vinyl chloride	130		120		55-140	8		20
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	110		100		61-145	10		20
trans-1,2-Dichloroethene	99		97		70-130	2		20
Trichloroethene	90		88		70-130	2		20
1,2-Dichlorobenzene	100		94		70-130	6		20
1,3-Dichlorobenzene	96		93		70-130	3		20
1,4-Dichlorobenzene	98		93		70-130	5		20
Methyl tert butyl ether	89		80		63-130	11		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	95		90		70-130	5		20
cis-1,2-Dichloroethene	99		93		70-130	6		20
Dibromomethane	95		92		70-130	3		20
1,2,3-Trichloropropane	91		89		64-130	2		20
Acrylonitrile	100		90		70-130	11		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	120		110		36-147	9		20
Acetone	96		88		58-148	9		20
Carbon disulfide	110		100		51-130	10		20
2-Butanone	91		81		63-138	12		20
Vinyl acetate	120		110		70-130	9		20
4-Methyl-2-pentanone	85		78		59-130	9		20
2-Hexanone	82		71		57-130	14		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1507696-3 WG1507696-4								
Bromochloromethane	96		91		70-130	5		20
2,2-Dichloropropane	80		78		63-133	3		20
1,2-Dibromoethane	89		86		70-130	3		20
1,3-Dichloropropane	96		94		70-130	2		20
1,1,1,2-Tetrachloroethane	93		87		64-130	7		20
Bromobenzene	96		91		70-130	5		20
n-Butylbenzene	100		92		53-136	8		20
sec-Butylbenzene	100		92		70-130	8		20
tert-Butylbenzene	97		91		70-130	6		20
o-Chlorotoluene	100		95		70-130	5		20
p-Chlorotoluene	100		93		70-130	7		20
1,2-Dibromo-3-chloropropane	82		75		41-144	9		20
Hexachlorobutadiene	110		92		63-130	18		20
Isopropylbenzene	98		93		70-130	5		20
p-Isopropyltoluene	98		90		70-130	9		20
Naphthalene	85		78		70-130	9		20
n-Propylbenzene	100		96		69-130	4		20
1,2,3-Trichlorobenzene	93		84		70-130	10		20
1,2,4-Trichlorobenzene	95		88		70-130	8		20
1,3,5-Trimethylbenzene	97		92		64-130	5		20
1,2,4-Trimethylbenzene	97		91		70-130	6		20
1,4-Dioxane	80		78		56-162	3		20
p-Diethylbenzene	95		88		70-130	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1507696-3 WG1507696-4								
p-Ethyltoluene	99		94		70-130	5		20
1,2,4,5-Tetramethylbenzene	91		82		70-130	10		20
Ethyl ether	110		100		59-134	10		20
trans-1,4-Dichloro-2-butene	**69**	Q	80		70-130	15		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		102		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	101		102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1507736-3 WG1507736-4								
Methylene chloride	97		93		70-130	4		20
1,1-Dichloroethane	100		99		70-130	1		20
Chloroform	92		91		70-130	1		20
Carbon tetrachloride	90		93		63-132	3		20
1,2-Dichloropropane	99		100		70-130	1		20
Dibromochloromethane	85		83		63-130	2		20
1,1,2-Trichloroethane	91		91		70-130	0		20
Tetrachloroethene	92		91		70-130	1		20
Chlorobenzene	89		89		75-130	0		20
Trichlorofluoromethane	98		110		62-150	12		20
1,2-Dichloroethane	89		91		70-130	2		20
1,1,1-Trichloroethane	81		85		67-130	5		20
Bromodichloromethane	87		88		67-130	1		20
trans-1,3-Dichloropropene	75		76		70-130	1		20
cis-1,3-Dichloropropene	80		81		70-130	1		20
1,1-Dichloropropene	89		94		70-130	5		20
Bromoform	88		86		54-136	2		20
1,1,2,2-Tetrachloroethane	97		94		67-130	3		20
Benzene	93		91		70-130	2		20
Toluene	89		87		70-130	2		20
Ethylbenzene	90		88		70-130	2		20
Chloromethane	95		93		64-130	2		20
Bromomethane	78		82		39-139	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1507736-3 WG1507736-4								
Vinyl chloride	120		120		55-140	0		20
Chloroethane	**140**	Q	**140**	Q	55-138	0		20
1,1-Dichloroethene	92		93		61-145	1		20
trans-1,2-Dichloroethene	94		96		70-130	2		20
Trichloroethene	82		87		70-130	6		20
1,2-Dichlorobenzene	87		87		70-130	0		20
1,3-Dichlorobenzene	89		85		70-130	5		20
1,4-Dichlorobenzene	89		85		70-130	5		20
Methyl tert butyl ether	78		79		63-130	1		20
p/m-Xylene	85		85		70-130	0		20
o-Xylene	90		85		70-130	6		20
cis-1,2-Dichloroethene	90		88		70-130	2		20
Dibromomethane	90		88		70-130	2		20
1,2,3-Trichloropropane	89		84		64-130	6		20
Acrylonitrile	96		100		70-130	4		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	120		130		36-147	8		20
Acetone	100		98		58-148	2		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	90		86		63-138	5		20
Vinyl acetate	110		100		70-130	10		20
4-Methyl-2-pentanone	75		78		59-130	4		20
2-Hexanone	71		72		57-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1507736-3 WG1507736-4								
Bromochloromethane	92		93		70-130	1		20
2,2-Dichloropropane	75		73		63-133	3		20
1,2-Dibromoethane	84		85		70-130	1		20
1,3-Dichloropropane	93		90		70-130	3		20
1,1,1,2-Tetrachloroethane	84		80		64-130	5		20
Bromobenzene	87		84		70-130	4		20
n-Butylbenzene	89		82		53-136	8		20
sec-Butylbenzene	88		82		70-130	7		20
tert-Butylbenzene	85		82		70-130	4		20
o-Chlorotoluene	91		89		70-130	2		20
p-Chlorotoluene	90		86		70-130	5		20
1,2-Dibromo-3-chloropropane	81		73		41-144	10		20
Hexachlorobutadiene	87		74		63-130	16		20
Isopropylbenzene	89		86		70-130	3		20
p-Isopropyltoluene	86		80		70-130	7		20
Naphthalene	74		72		70-130	3		20
n-Propylbenzene	91		88		69-130	3		20
1,2,3-Trichlorobenzene	82		81		70-130	1		20
1,2,4-Trichlorobenzene	81		80		70-130	1		20
1,3,5-Trimethylbenzene	86		85		64-130	1		20
1,2,4-Trimethylbenzene	87		84		70-130	4		20
1,4-Dioxane	88		86		56-162	2		20
p-Diethylbenzene	84		78		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1507736-3 WG1507736-4								
p-Ethyltoluene	88		86		70-130	2		20
1,2,4,5-Tetramethylbenzene	77		73		70-130	5		20
Ethyl ether	88		95		59-134	8		20
trans-1,4-Dichloro-2-butene	**50**	Q	**62**	Q	70-130	**21**	Q	20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		105		70-130
Toluene-d8	102		100		70-130
4-Bromofluorobenzene	93		97		70-130
Dibromofluoromethane	100		107		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-11 Batch: WG1507738-3 WG1507738-4								
Methylene chloride	85		85		70-130	0		20
1,1-Dichloroethane	97		97		70-130	0		20
Chloroform	84		86		70-130	2		20
Carbon tetrachloride	77		78		63-132	1		20
1,2-Dichloropropane	95		95		70-130	0		20
Dibromochloromethane	80		82		63-130	2		20
1,1,2-Trichloroethane	93		96		70-130	3		20
Tetrachloroethene	86		87		70-130	1		20
Chlorobenzene	92		92		75-130	0		20
Trichlorofluoromethane	81		80		62-150	1		20
1,2-Dichloroethane	94		94		70-130	0		20
1,1,1-Trichloroethane	84		84		67-130	0		20
Bromodichloromethane	78		80		67-130	3		20
trans-1,3-Dichloropropene	89		89		70-130	0		20
cis-1,3-Dichloropropene	79		79		70-130	0		20
1,1-Dichloropropene	89		89		70-130	0		20
Bromoform	80		82		54-136	2		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	84		85		70-130	1		20
Toluene	96		98		70-130	2		20
Ethylbenzene	98		97		70-130	1		20
Chloromethane	93		93		64-130	0		20
Bromomethane	53		54		39-139	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-11 Batch: WG1507738-3 WG1507738-4								
Vinyl chloride	87		88		55-140	1		20
Chloroethane	88		86		55-138	2		20
1,1-Dichloroethene	82		82		61-145	0		20
trans-1,2-Dichloroethene	84		84		70-130	0		20
Trichloroethene	84		85		70-130	1		20
1,2-Dichlorobenzene	96		96		70-130	0		20
1,3-Dichlorobenzene	99		98		70-130	1		20
1,4-Dichlorobenzene	98		98		70-130	0		20
Methyl tert butyl ether	75		77		63-130	3		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	84		83		70-130	1		20
Dibromomethane	77		79		70-130	3		20
1,2,3-Trichloropropane	98		100		64-130	2		20
Acrylonitrile	99		100		70-130	1		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	67		67		36-147	0		20
Acetone	100		100		58-148	0		20
Carbon disulfide	84		84		51-130	0		20
2-Butanone	93		100		63-138	7		20
Vinyl acetate	110		110		70-130	0		20
4-Methyl-2-pentanone	96		100		59-130	4		20
2-Hexanone	110		110		57-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-11 Batch: WG1507738-3 WG1507738-4								
Bromochloromethane	82		83		70-130	1		20
2,2-Dichloropropane	88		88		63-133	0		20
1,2-Dibromoethane	85		87		70-130	2		20
1,3-Dichloropropane	96		97		70-130	1		20
1,1,1,2-Tetrachloroethane	85		86		64-130	1		20
Bromobenzene	100		97		70-130	3		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	110		100		70-130	10		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	70		73		41-144	4		20
Hexachlorobutadiene	90		91		63-130	1		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	110		100		70-130	10		20
Naphthalene	82		85		70-130	4		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	79		82		70-130	4		20
1,2,4-Trichlorobenzene	85		88		70-130	3		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
1,4-Dioxane	70		74		56-162	6		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-11 Batch: WG1507738-3 WG1507738-4								
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	96		96		70-130	0		20
Ethyl ether	77		80		59-134	4		20
trans-1,4-Dichloro-2-butene	110		100		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		111		70-130
Toluene-d8	113		114		70-130
4-Bromofluorobenzene	119		117		70-130
Dibromofluoromethane	93		94		70-130

SEMIVOLATILES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-01
Client ID: 10-TW1 (5-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/24/21 08:45
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/30/21 22:47
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/29/21 19:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.6	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-01 Date Collected: 05/24/21 08:45

Client ID: 10-TW1 (5-15) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	104		10-120
4-Terphenyl-d14	106		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-01
Client ID: 10-TW1 (5-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/24/21 08:45
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/02/21 14:07
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 05/29/21 19:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.58		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.15		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	1.9	B	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.07	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.04	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.06	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.06	J	ug/l	0.10	0.01	1
Acenaphthylene	0.02	J	ug/l	0.10	0.01	1
Anthracene	0.06	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.04	J	ug/l	0.10	0.01	1
Fluorene	0.08	J	ug/l	0.10	0.01	1
Phenanthrene	0.22		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.02	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.04	J	ug/l	0.10	0.01	1
Pyrene	0.15		ug/l	0.10	0.02	1
2-Methylnaphthalene	2.7	B	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-01 Date Collected: 05/24/21 08:45

Client ID: 10-TW1 (5-15) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	82		10-120
4-Terphenyl-d14	90		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-01 RE
Client ID: 10-TW1 (5-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/24/21 08:45
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/04/21 18:51
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/02/21 21:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.60		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.47		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.72		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.28		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.22		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.27		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.08	J	ug/l	0.10	0.01	1
Chrysene	0.28		ug/l	0.10	0.01	1
Acenaphthylene	0.03	J	ug/l	0.10	0.01	1
Anthracene	0.14		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.17		ug/l	0.10	0.01	1
Fluorene	0.12		ug/l	0.10	0.01	1
Phenanthrene	0.45		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.04	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.16		ug/l	0.10	0.01	1
Pyrene	0.46		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.26	B	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-01 RE Date Collected: 05/24/21 08:45

Client ID: 10-TW1 (5-15) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		21-120
Phenol-d6	57		10-120
Nitrobenzene-d5	101		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	78		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-04
Client ID: 7-TW1 (25-30)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/24/21 13:55
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/30/21 22:23
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/29/21 19:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	1.4	J	ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-04 Date Collected: 05/24/21 13:55

Client ID: 7-TW1 (25-30) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	48		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	65		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-04
Client ID: 7-TW1 (25-30)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/24/21 13:55
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/02/21 14:26
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 05/29/21 19:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.04	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.07	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	1.3	B	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.04	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.03	J	ug/l	0.10	0.01	1
Fluorene	0.04	J	ug/l	0.10	0.01	1
Phenanthrene	0.11		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.02	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.03	J	ug/l	0.10	0.01	1
Pyrene	0.07	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.30	B	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-04 Date Collected: 05/24/21 13:55

Client ID: 7-TW1 (25-30) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	47		15-120
2,4,6-Tribromophenol	48		10-120
4-Terphenyl-d14	54		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-04 RE
Client ID: 7-TW1 (25-30)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/24/21 13:55
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/04/21 19:10
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/02/21 21:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.02	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.04	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.29		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.06	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.04	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.09	JB	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-04 RE Date Collected: 05/24/21 13:55

Client ID: 7-TW1 (25-30) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	24		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	25		23-120
2-Fluorobiphenyl	21		15-120
2,4,6-Tribromophenol	17		10-120
4-Terphenyl-d14	**20**	Q	41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-05
Client ID: 10-TW1 (20-30)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/25/21 08:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/03/21 13:19
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/31/21 07:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.7	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-05 Date Collected: 05/25/21 08:00

Client ID: 10-TW1 (20-30) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	91		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-05
Client ID: 10-TW1 (20-30)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/25/21 08:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/04/21 18:33
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 05/31/21 08:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	1.8		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.08	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.15		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.03	J	ug/l	0.10	0.01	1
Acenaphthylene	0.02	J	ug/l	0.10	0.01	1
Anthracene	0.08	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	0.28		ug/l	0.10	0.01	1
Phenanthrene	0.12		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.08	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.07	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-05 Date Collected: 05/25/21 08:00

Client ID: 10-TW1 (20-30) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	74		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-09
Client ID: 1-TW1 (5-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/26/21 12:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/02/21 16:09
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 06/01/21 08:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.6	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-09 Date Collected: 05/26/21 12:00

Client ID: 1-TW1 (5-15) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	1.4	J	ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	1.9	J	ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	65		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-09
Client ID: 1-TW1 (5-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/26/21 12:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/03/21 04:28
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/01/21 08:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	7.6		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	7.5		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	1.0		ug/l	0.10	0.05	1
Benzo(a)anthracene	3.2		ug/l	0.10	0.02	1
Benzo(a)pyrene	2.7		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	3.1		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.87		ug/l	0.10	0.01	1
Chrysene	2.8		ug/l	0.10	0.01	1
Acenaphthylene	0.32		ug/l	0.10	0.01	1
Anthracene	3.3		ug/l	0.10	0.01	1
Benzo(ghi)perylene	1.6		ug/l	0.10	0.01	1
Fluorene	4.3		ug/l	0.10	0.01	1
Phenanthrene	7.8		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.35		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	1.6		ug/l	0.10	0.01	1
Pyrene	7.0		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.79		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-09 Date Collected: 05/26/21 12:00

Client ID: 1-TW1 (5-15) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	70		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-09
Client ID: 1-TW1 (5-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/26/21 12:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/03/21 20:40
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 06/02/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	242.		ng/l	134	30.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	45		15-110

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/30/21 14:04
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/29/21 19:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1505415-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/30/21 14:04
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/29/21 19:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1505415-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	0.57	J	ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/30/21 14:04
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/29/21 19:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1505415-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	84		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	85		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/31/21 17:56
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/29/21 18:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,04 Batch: WG1505416-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	0.52		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	0.66		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/31/21 17:56
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/29/21 18:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,04 Batch: WG1505416-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	39		10-120
4-Terphenyl-d14	95		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/03/21 09:46
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/31/21 07:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1505663-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	2.2	J	ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/03/21 09:46
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/31/21 07:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1505663-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/03/21 09:46
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 05/31/21 07:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1505663-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	88		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/02/21 19:05
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/31/21 08:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 05 Batch: WG1505665-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/02/21 19:05
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 05/31/21 08:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 05 Batch: WG1505665-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	38		10-120
4-Terphenyl-d14	83		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/02/21 12:13
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 06/01/21 08:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1505891-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/02/21 12:13
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 06/01/21 08:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1505891-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/02/21 12:13
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 06/01/21 08:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1505891-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	48		10-120
4-Terphenyl-d14	62		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/03/21 01:39
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/01/21 08:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 09 Batch: WG1505892-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	0.04	J	ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/03/21 01:39
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/01/21 08:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 09 Batch: WG1505892-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	29		10-120
4-Terphenyl-d14	64		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/03/21 19:27
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 06/02/21 08:30

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 09 Batch: WG1506407-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	47		15-110

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/02/21 23:47
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/02/21 11:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,04 Batch: WG1506557-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	0.09	J	ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	0.15		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	0.01	J	ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/02/21 23:47
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/02/21 11:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,04 Batch: WG1506557-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		21-120
Phenol-d6	70		10-120
Nitrobenzene-d5	101		23-120
2-Fluorobiphenyl	93		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	100		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1505415-2 WG1505415-3								
Acenaphthene	87		76		37-111	13		30
1,2,4-Trichlorobenzene	77		63		39-98	20		30
Hexachlorobenzene	88		74		40-140	17		30
Bis(2-chloroethyl)ether	82		67		40-140	20		30
2-Chloronaphthalene	84		73		40-140	14		30
1,2-Dichlorobenzene	81		70		40-140	15		30
1,3-Dichlorobenzene	80		64		40-140	22		30
1,4-Dichlorobenzene	81		69		36-97	16		30
3,3'-Dichlorobenzidine	92		80		40-140	14		30
2,4-Dinitrotoluene	95		81		48-143	16		30
2,6-Dinitrotoluene	88		77		40-140	13		30
Fluoranthene	96		85		40-140	12		30
4-Chlorophenyl phenyl ether	84		71		40-140	17		30
4-Bromophenyl phenyl ether	84		73		40-140	14		30
Bis(2-chloroisopropyl)ether	64		53		40-140	19		30
Bis(2-chloroethoxy)methane	75		63		40-140	17		30
Hexachlorobutadiene	83		71		40-140	16		30
Hexachlorocyclopentadiene	89		73		40-140	20		30
Hexachloroethane	78		64		40-140	20		30
Isophorone	76		63		40-140	19		30
Naphthalene	88		86		40-140	2		30
Nitrobenzene	88		76		40-140	15		30
NDPA/DPA	89		77		40-140	14		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1505415-2 WG1505415-3								
n-Nitrosodi-n-propylamine	80		66		29-132	19		30
Bis(2-ethylhexyl)phthalate	88		75		40-140	16		30
Butyl benzyl phthalate	94		86		40-140	9		30
Di-n-butylphthalate	86		75		40-140	14		30
Di-n-octylphthalate	94		81		40-140	15		30
Diethyl phthalate	87		73		40-140	18		30
Dimethyl phthalate	86		73		40-140	16		30
Benzo(a)anthracene	100		88		40-140	13		30
Benzo(a)pyrene	126		109		40-140	14		30
Benzo(b)fluoranthene	119		95		40-140	22		30
Benzo(k)fluoranthene	108		101		40-140	7		30
Chrysene	96		84		40-140	13		30
Acenaphthylene	94		81		45-123	15		30
Anthracene	102		87		40-140	16		30
Benzo(ghi)perylene	102		92		40-140	10		30
Fluorene	90		77		40-140	16		30
Phenanthrene	98		82		40-140	18		30
Dibenzo(a,h)anthracene	103		89		40-140	15		30
Indeno(1,2,3-cd)pyrene	101		90		40-140	12		30
Pyrene	94		84		26-127	11		30
Biphenyl	90		76		40-140	17		30
4-Chloroaniline	73		65		40-140	12		30
2-Nitroaniline	100		88		52-143	13		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1505415-2 WG1505415-3								
3-Nitroaniline	90		77		25-145	16		30
4-Nitroaniline	87		79		51-143	10		30
Dibenzofuran	89		76		40-140	16		30
2-Methylnaphthalene	85		100		40-140	16		30
1,2,4,5-Tetrachlorobenzene	85		72		2-134	17		30
Acetophenone	85		68		39-129	22		30
2,4,6-Trichlorophenol	98		82		30-130	18		30
p-Chloro-m-cresol	96		84		23-97	13		30
2-Chlorophenol	91		73		27-123	22		30
2,4-Dichlorophenol	93		79		30-130	16		30
2,4-Dimethylphenol	92		77		30-130	18		30
2-Nitrophenol	118		98		30-130	19		30
4-Nitrophenol	76		68		10-80	11		30
2,4-Dinitrophenol	74		76		20-130	3		30
4,6-Dinitro-o-cresol	98		81		20-164	19		30
Pentachlorophenol	84		79		9-103	6		30
Phenol	64		56		12-110	13		30
2-Methylphenol	85		72		30-130	17		30
3-Methylphenol/4-Methylphenol	92		79		30-130	15		30
2,4,5-Trichlorophenol	96		82		30-130	16		30
Benzoic Acid	44		47		10-164	7		30
Benzyl Alcohol	87		69		26-116	23		30
Carbazole	100		89		55-144	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1505415-2 WG1505415-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	86		71		21-120
Phenol-d6	70		59		10-120
Nitrobenzene-d5	94		76		23-120
2-Fluorobiphenyl	94		79		15-120
2,4,6-Tribromophenol	108		94		10-120
4-Terphenyl-d14	97		87		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,04 Batch: WG1505416-2 WG1505416-3								
Acenaphthene	104		89		40-140	16		40
2-Chloronaphthalene	90		78		40-140	14		40
Fluoranthene	105		90		40-140	15		40
Hexachlorobutadiene	90		80		40-140	12		40
Naphthalene	**167**	Q	**149**	Q	40-140	11		40
Benzo(a)anthracene	109		91		40-140	18		40
Benzo(a)pyrene	115		96		40-140	18		40
Benzo(b)fluoranthene	115		94		40-140	20		40
Benzo(k)fluoranthene	119		100		40-140	17		40
Chrysene	106		93		40-140	13		40
Acenaphthylene	90		78		40-140	14		40
Anthracene	106		90		40-140	16		40
Benzo(ghi)perylene	103		89		40-140	15		40
Fluorene	102		88		40-140	15		40
Phenanthrene	105		90		40-140	15		40
Dibenzo(a,h)anthracene	106		90		40-140	16		40
Indeno(1,2,3-cd)pyrene	105		87		40-140	19		40
Pyrene	106		90		40-140	16		40
2-Methylnaphthalene	**245**	Q	**203**	Q	40-140	19		40
Pentachlorophenol	70		62		40-140	12		40
Hexachlorobenzene	96		82		40-140	16		40
Hexachloroethane	101		89		40-140	13		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,04 Batch: WG1505416-2 WG1505416-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	76		65		21-120
Phenol-d6	64		55		10-120
Nitrobenzene-d5	100		88		23-120
2-Fluorobiphenyl	88		77		15-120
2,4,6-Tribromophenol	88		73		10-120
4-Terphenyl-d14	99		85		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1505663-2 WG1505663-3								
Acenaphthene	58		67		37-111	14		30
1,2,4-Trichlorobenzene	54		61		39-98	12		30
Hexachlorobenzene	63		74		40-140	16		30
Bis(2-chloroethyl)ether	56		64		40-140	13		30
2-Chloronaphthalene	60		69		40-140	14		30
1,2-Dichlorobenzene	53		63		40-140	17		30
1,3-Dichlorobenzene	52		61		40-140	16		30
1,4-Dichlorobenzene	54		62		36-97	14		30
3,3'-Dichlorobenzidine	61		74		40-140	19		30
2,4-Dinitrotoluene	72		78		48-143	8		30
2,6-Dinitrotoluene	73		76		40-140	4		30
Fluoranthene	67		78		40-140	15		30
4-Chlorophenyl phenyl ether	59		67		40-140	13		30
4-Bromophenyl phenyl ether	61		72		40-140	17		30
Bis(2-chloroisopropyl)ether	47		55		40-140	16		30
Bis(2-chloroethoxy)methane	58		64		40-140	10		30
Hexachlorobutadiene	54		64		40-140	17		30
Hexachlorocyclopentadiene	60		71		40-140	17		30
Hexachloroethane	51		59		40-140	15		30
Isophorone	58		63		40-140	8		30
Naphthalene	57		70		40-140	20		30
Nitrobenzene	62		71		40-140	14		30
NDPA/DPA	64		71		40-140	10		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1505663-2 WG1505663-3								
n-Nitrosodi-n-propylamine	60		66		29-132	10		30
Bis(2-ethylhexyl)phthalate	77		89		40-140	14		30
Butyl benzyl phthalate	82		95		40-140	15		30
Di-n-butylphthalate	69		81		40-140	16		30
Di-n-octylphthalate	83		95		40-140	13		30
Diethyl phthalate	66		74		40-140	11		30
Dimethyl phthalate	69		76		40-140	10		30
Benzo(a)anthracene	67		78		40-140	15		30
Benzo(a)pyrene	79		94		40-140	17		30
Benzo(b)fluoranthene	71		85		40-140	18		30
Benzo(k)fluoranthene	72		86		40-140	18		30
Chrysene	65		76		40-140	16		30
Acenaphthylene	67		78		45-123	15		30
Anthracene	67		76		40-140	13		30
Benzo(ghi)perylene	66		79		40-140	18		30
Fluorene	62		70		40-140	12		30
Phenanthrene	66		74		40-140	11		30
Dibenzo(a,h)anthracene	66		80		40-140	19		30
Indeno(1,2,3-cd)pyrene	70		79		40-140	12		30
Pyrene	66		77		26-127	15		30
Biphenyl	62		73		40-140	16		30
4-Chloroaniline	50		58		40-140	15		30
2-Nitroaniline	77		83		52-143	8		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1505663-2 WG1505663-3								
3-Nitroaniline	66		68		25-145	3		30
4-Nitroaniline	66		73		51-143	10		30
Dibenzofuran	61		68		40-140	11		30
2-Methylnaphthalene	58		76		40-140	27		30
1,2,4,5-Tetrachlorobenzene	61		70		2-134	14		30
Acetophenone	58		66		39-129	13		30
2,4,6-Trichlorophenol	73		66		30-130	10		30
p-Chloro-m-cresol	74		74		23-97	0		30
2-Chlorophenol	62		60		27-123	3		30
2,4-Dichlorophenol	70		57		30-130	20		30
2,4-Dimethylphenol	70		75		30-130	7		30
2-Nitrophenol	82		68		30-130	19		30
4-Nitrophenol	59		44		10-80	29		30
2,4-Dinitrophenol	91		82		20-130	10		30
4,6-Dinitro-o-cresol	81		88		20-164	8		30
Pentachlorophenol	83		55		9-103	**41**	Q	30
Phenol	49		47		12-110	4		30
2-Methylphenol	63		68		30-130	8		30
3-Methylphenol/4-Methylphenol	67		70		30-130	4		30
2,4,5-Trichlorophenol	71		44		30-130	**47**	Q	30
Benzoic Acid	68		**0**	Q	10-164	NC		30
Benzyl Alcohol	61		66		26-116	8		30
Carbazole	68		78		55-144	14		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1505663-2 WG1505663-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		101		21-120
Phenol-d6	56		114		10-120
Nitrobenzene-d5	70		**164**	Q	23-120
2-Fluorobiphenyl	74		**168**	Q	15-120
2,4,6-Tribromophenol	86		**156**	Q	10-120
4-Terphenyl-d14	81		**191**	Q	41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 05 Batch: WG1505665-2 WG1505665-3								
Acenaphthene	81		84		40-140	4		40
2-Chloronaphthalene	77		73		40-140	5		40
Fluoranthene	80		83		40-140	4		40
Hexachlorobutadiene	74		76		40-140	3		40
Naphthalene	75		78		40-140	4		40
Benzo(a)anthracene	84		86		40-140	2		40
Benzo(a)pyrene	89		92		40-140	3		40
Benzo(b)fluoranthene	86		89		40-140	3		40
Benzo(k)fluoranthene	84		91		40-140	8		40
Chrysene	86		90		40-140	5		40
Acenaphthylene	68		71		40-140	4		40
Anthracene	84		88		40-140	5		40
Benzo(ghi)perylene	89		91		40-140	2		40
Fluorene	78		80		40-140	3		40
Phenanthrene	82		86		40-140	5		40
Dibenzo(a,h)anthracene	89		91		40-140	2		40
Indeno(1,2,3-cd)pyrene	88		90		40-140	2		40
Pyrene	80		85		40-140	6		40
2-Methylnaphthalene	74		76		40-140	3		40
Pentachlorophenol	73		75		40-140	3		40
Hexachlorobenzene	79		83		40-140	5		40
Hexachloroethane	76		79		40-140	4		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 05 Batch: WG1505665-2 WG1505665-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		75		21-120
Phenol-d6	57		62		10-120
Nitrobenzene-d5	89		91		23-120
2-Fluorobiphenyl	76		77		15-120
2,4,6-Tribromophenol	59		66		10-120
4-Terphenyl-d14	80		83		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1505891-2 WG1505891-3								
Acenaphthene	55		52		37-111	6		30
1,2,4-Trichlorobenzene	55		49		39-98	12		30
Hexachlorobenzene	62		58		40-140	7		30
Bis(2-chloroethyl)ether	56		50		40-140	11		30
2-Chloronaphthalene	58		54		40-140	7		30
1,2-Dichlorobenzene	54		51		40-140	6		30
1,3-Dichlorobenzene	54		49		40-140	10		30
1,4-Dichlorobenzene	54		52		36-97	4		30
3,3'-Dichlorobenzidine	**35**	Q	44		40-140	23		30
2,4-Dinitrotoluene	72		64		48-143	12		30
2,6-Dinitrotoluene	72		65		40-140	10		30
Fluoranthene	64		60		40-140	6		30
4-Chlorophenyl phenyl ether	59		53		40-140	11		30
4-Bromophenyl phenyl ether	61		57		40-140	7		30
Bis(2-chloroisopropyl)ether	47		44		40-140	7		30
Bis(2-chloroethoxy)methane	56		52		40-140	7		30
Hexachlorobutadiene	52		51		40-140	2		30
Hexachlorocyclopentadiene	59		53		40-140	11		30
Hexachloroethane	52		47		40-140	10		30
Isophorone	57		51		40-140	11		30
Naphthalene	56		54		40-140	4		30
Nitrobenzene	63		58		40-140	8		30
NDPA/DPA	54		58		40-140	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1505891-2 WG1505891-3								
n-Nitrosodi-n-propylamine	59		55		29-132	7		30
Bis(2-ethylhexyl)phthalate	72		79		40-140	9		30
Butyl benzyl phthalate	75		73		40-140	3		30
Di-n-butylphthalate	65		63		40-140	3		30
Di-n-octylphthalate	78		76		40-140	3		30
Diethyl phthalate	64		58		40-140	10		30
Dimethyl phthalate	70		63		40-140	11		30
Benzo(a)anthracene	64		59		40-140	8		30
Benzo(a)pyrene	73		70		40-140	4		30
Benzo(b)fluoranthene	72		66		40-140	9		30
Benzo(k)fluoranthene	64		61		40-140	5		30
Chrysene	59		57		40-140	3		30
Acenaphthylene	66		62		45-123	6		30
Anthracene	64		59		40-140	8		30
Benzo(ghi)perylene	63		60		40-140	5		30
Fluorene	60		56		40-140	7		30
Phenanthrene	62		59		40-140	5		30
Dibenzo(a,h)anthracene	64		60		40-140	6		30
Indeno(1,2,3-cd)pyrene	66		63		40-140	5		30
Pyrene	61		58		26-127	5		30
Biphenyl	61		58		40-140	5		30
4-Chloroaniline	50		45		40-140	11		30
2-Nitroaniline	78		71		52-143	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1505891-2 WG1505891-3								
3-Nitroaniline	58		53		25-145	9		30
4-Nitroaniline	67		60		51-143	11		30
Dibenzofuran	59		55		40-140	7		30
2-Methylnaphthalene	59		55		40-140	7		30
1,2,4,5-Tetrachlorobenzene	57		54		2-134	5		30
Acetophenone	58		55		39-129	5		30
2,4,6-Trichlorophenol	69		68		30-130	1		30
p-Chloro-m-cresol	72		67		23-97	7		30
2-Chlorophenol	61		57		27-123	7		30
2,4-Dichlorophenol	69		63		30-130	9		30
2,4-Dimethylphenol	59		59		30-130	0		30
2-Nitrophenol	87		78		30-130	11		30
4-Nitrophenol	57		53		10-80	7		30
2,4-Dinitrophenol	90		90		20-130	0		30
4,6-Dinitro-o-cresol	83		76		20-164	9		30
Pentachlorophenol	80		73		9-103	9		30
Phenol	46		41		12-110	11		30
2-Methylphenol	58		55		30-130	5		30
3-Methylphenol/4-Methylphenol	64		60		30-130	6		30
2,4,5-Trichlorophenol	69		64		30-130	8		30
Benzoic Acid	69		71		10-164	3		30
Benzyl Alcohol	61		57		26-116	7		30
Carbazole	64		60		55-144	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1505891-2 WG1505891-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		58		21-120
Phenol-d6	51		47		10-120
Nitrobenzene-d5	74		66		23-120
2-Fluorobiphenyl	72		68		15-120
2,4,6-Tribromophenol	86		79		10-120
4-Terphenyl-d14	74		72		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 09 Batch: WG1505892-2 WG1505892-3								
Acenaphthene	71		68		40-140	4		40
2-Chloronaphthalene	67		62		40-140	8		40
Fluoranthene	70		70		40-140	0		40
Hexachlorobutadiene	66		62		40-140	6		40
Naphthalene	67		63		40-140	6		40
Benzo(a)anthracene	73		71		40-140	3		40
Benzo(a)pyrene	77		78		40-140	1		40
Benzo(b)fluoranthene	80		76		40-140	5		40
Benzo(k)fluoranthene	77		81		40-140	5		40
Chrysene	71		73		40-140	3		40
Acenaphthylene	67		61		40-140	9		40
Anthracene	74		71		40-140	4		40
Benzo(ghi)perylene	67		67		40-140	0		40
Fluorene	71		67		40-140	6		40
Phenanthrene	71		69		40-140	3		40
Dibenzo(a,h)anthracene	70		70		40-140	0		40
Indeno(1,2,3-cd)pyrene	66		66		40-140	0		40
Pyrene	70		70		40-140	0		40
2-Methylnaphthalene	69		64		40-140	8		40
Pentachlorophenol	66		63		40-140	5		40
Hexachlorobenzene	69		66		40-140	4		40
Hexachloroethane	69		65		40-140	6		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 09 Batch: WG1505892-2 WG1505892-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	52		57		21-120
Phenol-d6	45		47		10-120
Nitrobenzene-d5	83		77		23-120
2-Fluorobiphenyl	73		67		15-120
2,4,6-Tribromophenol	56		61		10-120
4-Terphenyl-d14	73		73		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 09 Batch: WG1506407-2 WG1506407-3								
1,4-Dioxane	111		111		40-140	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	49		53		15-110

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,04 Batch: WG1506557-2 WG1506557-3								
Acenaphthene	95		80		40-140	17		40
2-Chloronaphthalene	86		74		40-140	15		40
Fluoranthene	96		84		40-140	13		40
Hexachlorobutadiene	85		73		40-140	15		40
Naphthalene	97		76		40-140	24		40
Benzo(a)anthracene	98		87		40-140	12		40
Benzo(a)pyrene	106		93		40-140	13		40
Benzo(b)fluoranthene	108		97		40-140	11		40
Benzo(k)fluoranthene	106		91		40-140	15		40
Chrysene	97		86		40-140	12		40
Acenaphthylene	86		72		40-140	18		40
Anthracene	99		86		40-140	14		40
Benzo(ghi)perylene	91		80		40-140	13		40
Fluorene	95		80		40-140	17		40
Phenanthrene	95		83		40-140	13		40
Dibenzo(a,h)anthracene	94		84		40-140	11		40
Indeno(1,2,3-cd)pyrene	91		80		40-140	13		40
Pyrene	95		83		40-140	13		40
2-Methylnaphthalene	91		77		40-140	17		40
Pentachlorophenol	88		78		40-140	12		40
Hexachlorobenzene	90		79		40-140	13		40
Hexachloroethane	89		76		40-140	16		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,04 Batch: WG1506557-2 WG1506557-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	87		75		21-120
Phenol-d6	75		65		10-120
Nitrobenzene-d5	107		90		23-120
2-Fluorobiphenyl	94		80		15-120
2,4,6-Tribromophenol	95		79		10-120
4-Terphenyl-d14	98		86		41-149

PCBS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-09
Client ID: 1-TW1 (5-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/26/21 12:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 06/03/21 14:55
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 06/02/21 15:26
Cleanup Method: EPA 3665A
Cleanup Date: 06/03/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/03/21 14:32
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 06/02/21 10:42
Cleanup Method: EPA 3665A
Cleanup Date: 06/02/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/03/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 09 Batch: WG1506533-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	48		30-150	B
Decachlorobiphenyl	51		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 09 Batch: WG1506533-2 WG1506533-3									
Aroclor 1016	45		52		40-140	13		50	A
Aroclor 1260	43		54		40-140	24		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		49		30-150	A
Decachlorobiphenyl	42		49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		52		30-150	B
Decachlorobiphenyl	96		56		30-150	B

PESTICIDES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-09
Client ID: 1-TW1 (5-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY

Date Collected: 05/26/21 12:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 06/02/21 19:16
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 06/01/21 08:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: AVANT GARDNER **Lab Number:** L2128067

Project Number: 17244793 **Report Date:** 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-09 Date Collected: 05/26/21 12:00

Client ID: 1-TW1 (5-15) Date Received: 05/26/21

Sample Location: 140 STEWART AVE., BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		30-150	A
Decachlorobiphenyl	**24**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	37		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/01/21 22:09
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 06/01/21 00:40

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 09 Batch: WG1505829-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/01/21 22:09
Analyst: EJL

Extraction Method: EPA 3510C
Extraction Date: 06/01/21 00:40

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 09 Batch: WG1505829-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	61		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 09 Batch: WG1505829-2 WG1505829-3									
Lindane	55		58		30-150	6		20	A
Alpha-BHC	58		62		30-150	7		20	A
Beta-BHC	54		58		30-150	8		20	A
Heptachlor	55		58		30-150	6		20	A
Aldrin	54		56		30-150	4		20	A
Heptachlor epoxide	55		59		30-150	6		20	A
Endrin	55		61		30-150	10		20	A
Endrin aldehyde	51		55		30-150	8		20	A
Endrin ketone	53		59		30-150	10		20	A
Dieldrin	58		64		30-150	9		20	A
4,4'-DDE	55		60		30-150	8		20	A
4,4'-DDD	61		65		30-150	7		20	A
4,4'-DDT	64		64		30-150	1		20	A
Endosulfan I	54		59		30-150	9		20	A
Endosulfan II	55		61		30-150	10		20	A
Endosulfan sulfate	44		54		30-150	**21**	Q	20	A
Methoxychlor	52		57		30-150	10		20	A
cis-Chlordane	56		61		30-150	9		20	A
trans-Chlordane	59		62		30-150	5		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 09 Batch: WG1505829-2 WG1505829-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		53		30-150	A
Decachlorobiphenyl	53		57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		53		30-150	B
Decachlorobiphenyl	62		70		30-150	B

METALS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-09
Client ID: 1-TW1 (5-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/26/21 12:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3.98		mg/l	0.0100	0.00327	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Antimony, Total	0.00300	J	mg/l	0.00400	0.00042	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Arsenic, Total	0.02732		mg/l	0.00050	0.00016	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Barium, Total	0.3006		mg/l	0.00050	0.00017	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Beryllium, Total	0.00026	J	mg/l	0.00050	0.00010	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00088		mg/l	0.00020	0.00005	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Calcium, Total	146.		mg/l	0.100	0.0394	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Chromium, Total	0.01504		mg/l	0.00100	0.00017	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Cobalt, Total	0.00519		mg/l	0.00050	0.00016	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Copper, Total	0.05218		mg/l	0.00100	0.00038	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Iron, Total	15.0		mg/l	0.0500	0.0191	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Lead, Total	0.4726		mg/l	0.00100	0.00034	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Magnesium, Total	23.3		mg/l	0.0700	0.0242	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Manganese, Total	0.6447		mg/l	0.00100	0.00044	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Mercury, Total	0.00354		mg/l	0.00020	0.00009	1	06/03/21 06:35	06/05/21 18:16	EPA 7470A	1,7470A	NB
Nickel, Total	0.00994		mg/l	0.00200	0.00055	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Potassium, Total	23.2		mg/l	0.100	0.0309	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Silver, Total	0.00016	J	mg/l	0.00040	0.00016	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Sodium, Total	94.4		mg/l	0.100	0.0293	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Thallium, Total	0.00067	J	mg/l	0.00100	0.00014	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Vanadium, Total	0.01478		mg/l	0.00500	0.00157	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Zinc, Total	0.3349		mg/l	0.01000	0.00341	1	06/03/21 03:05	06/08/21 13:44	EPA 3005A	1,6020B	CD
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0195		mg/l	0.0100	0.00327	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Antimony, Dissolved	0.00288	J	mg/l	0.00400	0.00042	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Arsenic, Dissolved	0.00698		mg/l	0.00050	0.00016	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Barium, Dissolved	0.09163		mg/l	0.00050	0.00017	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

SAMPLE RESULTS

Lab ID: L2128067-09
Client ID: 1-TW1 (5-15)
Sample Location: 140 STEWART AVE., BROOKLYN, NY
Date Collected: 05/26/21 12:00
Date Received: 05/26/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Calcium, Dissolved	144.		mg/l	0.100	0.0394	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Chromium, Dissolved	0.00056	J	mg/l	0.00100	0.00017	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Cobalt, Dissolved	0.00129		mg/l	0.00050	0.00016	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Iron, Dissolved	0.198		mg/l	0.0500	0.0191	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Lead, Dissolved	0.00220		mg/l	0.00100	0.00034	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Magnesium, Dissolved	23.0		mg/l	0.0700	0.0242	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Manganese, Dissolved	0.4937		mg/l	0.00100	0.00044	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/07/21 11:12	06/07/21 15:35	EPA 7470A	1,7470A	OU
Nickel, Dissolved	0.00228		mg/l	0.00200	0.00055	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Potassium, Dissolved	23.3		mg/l	0.100	0.0309	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Sodium, Dissolved	103.		mg/l	0.100	0.0293	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD
Zinc, Dissolved	0.00860	J	mg/l	0.01000	0.00341	1	06/07/21 10:56	06/08/21 13:39	EPA 3005A	1,6020B	CD

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 09 Batch: WG1504588-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	06/03/21 06:35	06/05/21 17:00	1,7470A	NB

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 09 Batch: WG1506867-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Barium, Total	ND		mg/l	0.00050	0.00017	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Calcium, Total	ND		mg/l	0.100	0.0394	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Copper, Total	ND		mg/l	0.00100	0.00038	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Iron, Total	ND		mg/l	0.0500	0.0191	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Manganese, Total	ND		mg/l	0.00100	0.00044	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Nickel, Total	ND		mg/l	0.00200	0.00055	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Potassium, Total	ND		mg/l	0.100	0.0309	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Sodium, Total	ND		mg/l	0.100	0.0293	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD
Zinc, Total	ND		mg/l	0.01000	0.00341	1	06/03/21 03:05	06/08/21 13:08	1,6020B	CD

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 09 Batch: WG1507145-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD
Zinc, Dissolved	0.00514	J	mg/l	0.01000	0.00341	1	06/07/21 10:56	06/08/21 13:03	1,6020B	CD

Prep Information

Digestion Method: EPA 3005A

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2128067
Report Date: 06/08/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 09 Batch: WG1507147-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/07/21 11:12	06/07/21 15:12	1,7470A	OU

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 Batch: WG1504588-2								
Mercury, Total	100		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 Batch: WG1506867-2					
Aluminum, Total	99	-	80-120	-	
Arsenic, Total	101	-	80-120	-	
Barium, Total	102	-	80-120	-	
Beryllium, Total	98	-	80-120	-	
Cadmium, Total	102	-	80-120	-	
Calcium, Total	96	-	80-120	-	
Chromium, Total	93	-	80-120	-	
Cobalt, Total	94	-	80-120	-	
Copper, Total	96	-	80-120	-	
Iron, Total	111	-	80-120	-	
Lead, Total	103	-	80-120	-	
Magnesium, Total	98	-	80-120	-	
Manganese, Total	98	-	80-120	-	
Nickel, Total	90	-	80-120	-	
Potassium, Total	96	-	80-120	-	
Selenium, Total	104	-	80-120	-	
Silver, Total	101	-	80-120	-	
Sodium, Total	98	-	80-120	-	
Thallium, Total	102	-	80-120	-	
Vanadium, Total	92	-	80-120	-	
Zinc, Total	102	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 09 Batch: WG1507145-2					
Aluminum, Dissolved	101	-	80-120	-	
Antimony, Dissolved	82	-	80-120	-	
Arsenic, Dissolved	103	-	80-120	-	
Barium, Dissolved	101	-	80-120	-	
Beryllium, Dissolved	98	-	80-120	-	
Cadmium, Dissolved	102	-	80-120	-	
Calcium, Dissolved	97	-	80-120	-	
Chromium, Dissolved	95	-	80-120	-	
Cobalt, Dissolved	96	-	80-120	-	
Copper, Dissolved	96	-	80-120	-	
Iron, Dissolved	111	-	80-120	-	
Lead, Dissolved	104	-	80-120	-	
Magnesium, Dissolved	100	-	80-120	-	
Manganese, Dissolved	97	-	80-120	-	
Nickel, Dissolved	92	-	80-120	-	
Potassium, Dissolved	98	-	80-120	-	
Selenium, Dissolved	108	-	80-120	-	
Silver, Dissolved	104	-	80-120	-	
Sodium, Dissolved	100	-	80-120	-	
Thallium, Dissolved	104	-	80-120	-	
Vanadium, Dissolved	92	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 09 Batch: WG1507145-2					
Zinc, Dissolved	102	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 09 Batch: WG1507147-2					
Mercury, Dissolved	95	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1504588-3 QC Sample: L2126611-02 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00495	99		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1506867-3 QC Sample: L2128330-01 Client ID: MS Sample										
Aluminum, Total	0.191	2	2.14	97		-	-	75-125	-	20
Antimony, Total	0.00176J	0.5	0.2154	**43**	Q	-	-	75-125	-	20
Arsenic, Total	0.00126	0.12	0.1254	103		-	-	75-125	-	20
Barium, Total	0.1226	2	2.182	103		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.05092	102		-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.05232	102		-	-	75-125	-	20
Calcium, Total	71.1	10	75.8	**47**	Q	-	-	75-125	-	20
Chromium, Total	0.00047J	0.2	0.1879	94		-	-	75-125	-	20
Cobalt, Total	0.00021J	0.5	0.4771	95		-	-	75-125	-	20
Copper, Total	ND	0.25	0.2564	102		-	-	75-125	-	20
Iron, Total	0.346	1	1.28	93		-	-	75-125	-	20
Lead, Total	ND	0.51	0.5281	104		-	-	75-125	-	20
Magnesium, Total	24.5	10	32.7	82		-	-	75-125	-	20
Manganese, Total	0.02207	0.5	0.5027	96		-	-	75-125	-	20
Nickel, Total	ND	0.5	0.4692	94		-	-	75-125	-	20
Potassium, Total	0.836	10	10.4	96		-	-	75-125	-	20
Selenium, Total	ND	0.12	0.125	104		-	-	75-125	-	20
Silver, Total	ND	0.05	0.05324	106		-	-	75-125	-	20
Sodium, Total	6.02	10	15.4	94		-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1220	102		-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.4814	96		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1506867-3 QC Sample: L2128330-01 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5287	106	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1507145-3 QC Sample: L2128018-01 Client ID: MS Sample										
Aluminum, Dissolved	0.00565J	2	2.15	108		-	-	75-125	-	20
Antimony, Dissolved	ND	0.5	0.4361	87		-	-	75-125	-	20
Arsenic, Dissolved	0.00029J	0.12	0.1279	106		-	-	75-125	-	20
Barium, Dissolved	0.1258	2	2.196	104		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05173	103		-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.05267	103		-	-	75-125	-	20
Calcium, Dissolved	265.	10	263	**0**	Q	-	-	75-125	-	20
Chromium, Dissolved	0.01279	0.2	0.2022	95		-	-	75-125	-	20
Cobalt, Dissolved	0.00045J	0.5	0.4927	98		-	-	75-125	-	20
Copper, Dissolved	0.00041J	0.25	0.2569	103		-	-	75-125	-	20
Iron, Dissolved	0.0427J	1	1.09	109		-	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.5450	107		-	-	75-125	-	20
Magnesium, Dissolved	32.7	10	43.0	103		-	-	75-125	-	20
Manganese, Dissolved	0.2987	0.5	0.7997	100		-	-	75-125	-	20
Nickel, Dissolved	0.00413	0.5	0.4610	91		-	-	75-125	-	20
Potassium, Dissolved	20.6	10	29.4	88		-	-	75-125	-	20
Selenium, Dissolved	0.00466J	0.12	0.131	109		-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05195	104		-	-	75-125	-	20
Sodium, Dissolved	226.	10	227	**10**	Q	-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1256	105		-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.4981	100		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1507145-3 QC Sample: L2128018-01 Client ID: MS Sample									
Zinc, Dissolved	0.00700J	0.5	0.5298	106	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1507147-3 QC Sample: L2128018-02 Client ID: MS Sample									
Mercury, Dissolved	ND	0.005	0.00472	94	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1504588-4 QC Sample: L2126611-02 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1506867-4 QC Sample: L2128330-01 Client ID: DUP Sample					
Aluminum, Total	0.191	0.196	mg/l	3	20
Antimony, Total	0.00176J	0.00567	mg/l	NC	20
Arsenic, Total	0.00126	0.00133	mg/l	6	20
Barium, Total	0.1226	0.1239	mg/l	1	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	0.00047J	0.00053J	mg/l	NC	20
Cobalt, Total	0.00021J	0.00017J	mg/l	NC	20
Copper, Total	ND	ND	mg/l	NC	20
Iron, Total	0.346	0.378	mg/l	9	20
Lead, Total	ND	ND	mg/l	NC	20
Manganese, Total	0.02207	0.02239	mg/l	1	20
Nickel, Total	ND	ND	mg/l	NC	20
Potassium, Total	0.836	0.797	mg/l	5	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	6.02	5.80	mg/l	4	20
Thallium, Total	ND	0.00023J	mg/l	NC	20
Vanadium, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1506867-4 QC Sample: L2128330-01 Client ID: DUP Sample					
Zinc, Total	ND	ND	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1507145-4 QC Sample: L2128018-01 Client ID: DUP Sample					
Aluminum, Dissolved	0.00565J	0.00576J	mg/l	NC	20
Antimony, Dissolved	ND	ND	mg/l	NC	20
Arsenic, Dissolved	0.00029J	0.00025J	mg/l	NC	20
Barium, Dissolved	0.1258	0.1221	mg/l	3	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Calcium, Dissolved	265.	258	mg/l	3	20
Chromium, Dissolved	0.01279	0.01251	mg/l	2	20
Cobalt, Dissolved	0.00045J	0.00053	mg/l	NC	20
Copper, Dissolved	0.00041J	0.00042J	mg/l	NC	20
Iron, Dissolved	0.0427J	0.0406J	mg/l	NC	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	32.7	31.9	mg/l	2	20
Manganese, Dissolved	0.2987	0.2895	mg/l	3	20
Nickel, Dissolved	0.00413	0.00356	mg/l	15	20
Potassium, Dissolved	20.6	20.1	mg/l	2	20
Selenium, Dissolved	0.00466J	0.00409J	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Sodium, Dissolved	226.	220	mg/l	3	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2128067

Report Date: 06/08/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1507145-4 QC Sample: L2128018-01 Client ID: DUP Sample					
Thallium, Dissolved	ND	ND	mg/l	NC	20
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	0.00700J	0.00664J	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1507147-4 QC Sample: L2128018-02 Client ID: DUP Sample					
Mercury, Dissolved	ND	ND	mg/l	NC	20

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2128067
Report Date: 06/08/21

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1507145-6 QC Sample: L2128018-01 Client ID: DUP Sample						
Barium, Dissolved	0.1258	0.1189	mg/l	5		20
Calcium, Dissolved	265.	258.	mg/l	3		20
Magnesium, Dissolved	32.7	32.0	mg/l	2		20
Manganese, Dissolved	0.2987	0.2969	mg/l	1		20
Potassium, Dissolved	20.6	20.0	mg/l	3		20
Sodium, Dissolved	226.	212.	mg/l	6		20

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2128067-01A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-01B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-01C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-01D	Amber 250ml unpreserved	A	7	7	2.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2128067-01E	Amber 250ml unpreserved	A	7	7	2.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2128067-02A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-02B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-02C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-03A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-03B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-03C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-04A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-04B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-04C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-04D	Amber 250ml unpreserved	A	7	7	2.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2128067-04E	Amber 250ml unpreserved	A	7	7	2.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2128067-05A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-05B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-05C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-05D	Amber 250ml unpreserved	A	7	7	2.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2128067-05E	Amber 250ml unpreserved	A	7	7	2.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2128067-06A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-06B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2128067-06C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-07A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-07B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-07C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-08A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-08B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-08C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-09A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-09B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-09C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-09D	Amber 120ml unpreserved	A	7	7	2.5	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2128067-09E	Amber 120ml unpreserved	A	7	7	2.5	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2128067-09F	Amber 120ml unpreserved	A	7	7	2.5	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2128067-09G	Amber 120ml unpreserved	A	7	7	2.5	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2128067-09H	Amber 250ml unpreserved	A	7	7	2.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2128067-09I	Amber 250ml unpreserved	A	7	7	2.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2128067-09J	Amber 250ml unpreserved	A	7	7	2.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2128067-09K	Amber 250ml unpreserved	A	7	7	2.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2128067-09L	Plastic 250ml unpreserved	A	7	7	2.5	Y	Absent		-
L2128067-09M	Plastic 250ml HNO3 preserved	A	<2	<2	2.5	Y	Absent		TL-6020T(180),SE-6020T(180),FE-6020T(180),BA-6020T(180),NI-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),MG-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28),AL-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2128067
Report Date: 06/08/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2128067-09X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.5	Y	Absent		CU-6020S(180),K-6020S(180),V-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),TL-6020S(180),PB-6020S(180),NI-6020S(180),NA-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),CD-6020S(180),AL-6020S(180),HG-S(28)
L2128067-10A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-10B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-10C	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-11A	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2128067-11B	Vial HCl preserved	A	NA		2.5	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	AVANT GARDNER	**Lab Number:**	L2128067
Project Number:	17244793	**Report Date:**	06/08/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2128067
Project Number:	17244793	**Report Date:**	06/08/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2128067
Project Number:	17244793	**Report Date:**	06/08/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Project Name:	AVANT GARDNER	**Lab Number:**	L2128067
Project Number:	17244793	**Report Date:**	06/08/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page: of

Date Rec'd in Lab: 5/26/21

ALPHA Job #: L2128067

Client Information
Client: PSG (Partner)
Address: 611 Industrial Way West, Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLENT@partnereseam.com

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn NY
Project #: 17243313
(Use Project name as Project #): X
Project Manager: David Lent
ALPHAQuote #: —

Turn-Around Time
Standard: ✓ Due Date:
Rush (only if pre approved): ☐ # of Days:

These samples have been previously analyzed by Alpha: ☐

Other project specific requirements/comments:
TRIP BLANK INCLUDED

Please specify Metals or TAL.

Deliverables
☐ ASP-A ☐ ASP-B
✓ EQuIS (1 File) X EQuIS (4 File)
☐ Other

Regulatory Requirement
X NY TOGS ☐ NY Part 375
X AWQ Standards X NY CP-51
X NY Restricted Use ☐ Other
X NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
X Same as Client Info
PO # 17243313

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270-LVI	1,4 Dioxane-EPA 8270 SIM	TCL Pesticides-EPA 8081	TCL PCBs-EPA 8082 (LVI)	Dissolved Metals	Total Target Compound Metals		Sample Specific Comments	Total Bottle
28067-01	10-TW1 (5-15)	5-24-21	845	GW	PC	X	X								
-02	10-TW2 (65-70)	5-24-21	915	GW	PC	X									
-03	10-TW2 (105-110)	5-24-21	1100	GW	PC	X									
-04	7-TW1 (25-30)	5-24-21	1355	GW	PC	X	X								
-05	10-TW1 (20-30)	5-25-21	800	GW	PC	X	X								
-06	3-TW1 (105-110)	5-25-21	1100	GW	PC	X									
-07	3-TW1 (65-70)	5-25-21	1130	GW	PC	X									
-08	2-TW1 (10-20)	5-25-21	1340	GW	PC	X									
-09	1-TW1 (5-15)	5-26-21	1200	GW	PC	X	X	X	X	X	X	X			
-10	FIELD BLANK	5-25-21	1400	FB	PC	X									

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5-26-21 1555		5/26/21 15:55
	5/26/21 15:52		5/26/21 1650
	5/26/21 2345		5/26/21 23:43

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2130572
Client:	Partner Engineering & Science, Inc. 222 Bloomingdale Road Suite 303 White Plains, NY 10605
ATTN:	David Lent
Phone:	(914) 222-8011
Project Name:	AVANT GARDNER
Project Number:	17244793
Report Date:	06/22/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2130572-01	MW-1	WATER	140 STEWART AVE, BROOKLYN, NY	06/07/21 11:50	06/08/21
L2130572-02	MW-2	WATER	140 STEWART AVE, BROOKLYN, NY	06/07/21 10:00	06/08/21
L2130572-03	MW-3	WATER	140 STEWART AVE, BROOKLYN, NY	06/07/21 10:00	06/08/21
L2130572-04	MW-4	WATER	140 STEWART AVE, BROOKLYN, NY	06/07/21 12:10	06/08/21
L2130572-05	MW-5	WATER	140 STEWART AVE, BROOKLYN, NY	06/07/21 08:15	06/08/21
L2130572-06	MW-6	WATER	140 STEWART AVE, BROOKLYN, NY	06/07/21 08:20	06/08/21
L2130572-07	FIELD BLANK	WATER	140 STEWART AVE, BROOKLYN, NY	06/07/21 11:00	06/08/21
L2130572-08	DUP	WATER	140 STEWART AVE, BROOKLYN, NY	06/07/21 11:50	06/08/21
L2130572-09	TRIP BLANK	WATER	140 STEWART AVE, BROOKLYN, NY	06/02/21 00:00	06/08/21

Project Name:	AVANT GARDNER	**Lab Number:**	L2130572
Project Number:	17244793	**Report Date:**	06/22/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	AVANT GARDNER	**Lab Number:**	L2130572
Project Number:	17244793	**Report Date:**	06/22/21

Case Narrative (continued)

Report Submission

June 22, 2021: This final report includes the results of all requested analyses.

June 16, 2021: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

L2130572-01, -02, -03, -08, and WG1510093-3/-4: The sample was centrifuged and decanted prior to extraction due to sample matrix.

L2130572-02, -04, -08, and WG1510093-3/-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2130572-03: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Semivolatile Organics

The WG1511255-3 LCSD recovery, associated with L2130572-01 through -08, is below the acceptance criteria for benzoic acid (0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

The WG1511255-5 MSD recovery, performed on L2130572-01, is below the acceptance criteria for 3,3'-dichlorobenzidine (0%) due to the concentration of this compound in the MS/MSD falling below the reported detection limit.

Semivolatile Organics by SIM

The WG1511256-4 MS recoveries, performed on L2130572-01, are outside the acceptance criteria for fluoranthene (0%), phenanthrene (0%), and pyrene (0%). The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the native sample.

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Case Narrative (continued)

Pesticides

WG1511980-4: The surrogate and Matrix Spike spike recoveries are outside the acceptance criteria. The native sample and Matrix Spike Duplicate have acceptable surrogate recoveries, and the Matrix Spike Duplicate QC has acceptable recoveries for the spike compounds; therefore, no further action was taken.

Total Metals

L2130572-07: The Field Blank has a concentration above the reporting limit for sodium. The result was confirmed.

The WG1510544-7/-8 MS/MSD recoveries for calcium (MS 60%) and iron (280%/330%), performed on L2130572-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1510544-7/-8 MS/MSD recoveries, performed on L2130572-01, are outside the acceptance criteria for magnesium (MSD 129%) and selenium (46%/49%). A post digestion spike was performed and was within acceptance criteria.

Dissolved Metals

L2130572-07: The Field Blank has a concentration above the reporting limit for sodium. The result was confirmed.

The WG1510885-3 MS recovery for calcium (70%), performed on L2130572-01, does not apply because the sample concentration is greater than four times the spike amount added.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 06/22/21

ORGANICS

VOLATILES

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-01 Date Collected: 06/07/21 11:50
Client ID: MW-1 Date Received: 06/08/21
Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/21 10:12
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-01 Date Collected: 06/07/21 11:50

Client ID: MW-1 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	4.1	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	31		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-01 Date Collected: 06/07/21 11:50

Client ID: MW-1 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	122		70-130
Dibromofluoromethane	90		70-130

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-02 D
Client ID: MW-2
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/21 10:36
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	120	35.	50
1,1-Dichloroethane	ND		ug/l	120	35.	50
Chloroform	ND		ug/l	120	35.	50
Carbon tetrachloride	ND		ug/l	25	6.7	50
1,2-Dichloropropane	ND		ug/l	50	6.8	50
Dibromochloromethane	ND		ug/l	25	7.4	50
1,1,2-Trichloroethane	ND		ug/l	75	25.	50
Tetrachloroethene	9200		ug/l	25	9.0	50
Chlorobenzene	ND		ug/l	120	35.	50
Trichlorofluoromethane	ND		ug/l	120	35.	50
1,2-Dichloroethane	ND		ug/l	25	6.6	50
1,1,1-Trichloroethane	ND		ug/l	120	35.	50
Bromodichloromethane	ND		ug/l	25	9.6	50
trans-1,3-Dichloropropene	ND		ug/l	25	8.2	50
cis-1,3-Dichloropropene	ND		ug/l	25	7.2	50
1,3-Dichloropropene, Total	ND		ug/l	25	7.2	50
1,1-Dichloropropene	ND		ug/l	120	35.	50
Bromoform	ND		ug/l	100	32.	50
1,1,2,2-Tetrachloroethane	ND		ug/l	25	8.4	50
Benzene	ND		ug/l	25	8.0	50
Toluene	ND		ug/l	120	35.	50
Ethylbenzene	ND		ug/l	120	35.	50
Chloromethane	ND		ug/l	120	35.	50
Bromomethane	ND		ug/l	120	35.	50
Vinyl chloride	52		ug/l	50	3.6	50
Chloroethane	ND		ug/l	120	35.	50
1,1-Dichloroethene	ND		ug/l	25	8.4	50
trans-1,2-Dichloroethene	ND		ug/l	120	35.	50

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-02 D Date Collected: 06/07/21 10:00

Client ID: MW-2 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	1100		ug/l	25	8.8	50
1,2-Dichlorobenzene	ND		ug/l	120	35.	50
1,3-Dichlorobenzene	ND		ug/l	120	35.	50
1,4-Dichlorobenzene	ND		ug/l	120	35.	50
Methyl tert butyl ether	ND		ug/l	120	35.	50
p/m-Xylene	ND		ug/l	120	35.	50
o-Xylene	ND		ug/l	120	35.	50
Xylenes, Total	ND		ug/l	120	35.	50
cis-1,2-Dichloroethene	660		ug/l	120	35.	50
1,2-Dichloroethene, Total	660		ug/l	120	35.	50
Dibromomethane	ND		ug/l	250	50.	50
1,2,3-Trichloropropane	ND		ug/l	120	35.	50
Acrylonitrile	ND		ug/l	250	75.	50
Styrene	ND		ug/l	120	35.	50
Dichlorodifluoromethane	ND		ug/l	250	50.	50
Acetone	ND		ug/l	250	73.	50
Carbon disulfide	ND		ug/l	250	50.	50
2-Butanone	ND		ug/l	250	97.	50
Vinyl acetate	ND		ug/l	250	50.	50
4-Methyl-2-pentanone	ND		ug/l	250	50.	50
2-Hexanone	ND		ug/l	250	50.	50
Bromochloromethane	ND		ug/l	120	35.	50
2,2-Dichloropropane	ND		ug/l	120	35.	50
1,2-Dibromoethane	ND		ug/l	100	32.	50
1,3-Dichloropropane	ND		ug/l	120	35.	50
1,1,1,2-Tetrachloroethane	ND		ug/l	120	35.	50
Bromobenzene	ND		ug/l	120	35.	50
n-Butylbenzene	ND		ug/l	120	35.	50
sec-Butylbenzene	ND		ug/l	120	35.	50
tert-Butylbenzene	ND		ug/l	120	35.	50
o-Chlorotoluene	ND		ug/l	120	35.	50
p-Chlorotoluene	ND		ug/l	120	35.	50
1,2-Dibromo-3-chloropropane	ND		ug/l	120	35.	50
Hexachlorobutadiene	ND		ug/l	120	35.	50
Isopropylbenzene	ND		ug/l	120	35.	50
p-Isopropyltoluene	ND		ug/l	120	35.	50
Naphthalene	110	J	ug/l	120	35.	50

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-02 D Date Collected: 06/07/21 10:00

Client ID: MW-2 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	120	35.	50
1,2,3-Trichlorobenzene	ND		ug/l	120	35.	50
1,2,4-Trichlorobenzene	ND		ug/l	120	35.	50
1,3,5-Trimethylbenzene	ND		ug/l	120	35.	50
1,2,4-Trimethylbenzene	ND		ug/l	120	35.	50
1,4-Dioxane	ND		ug/l	12000	3000	50
p-Diethylbenzene	ND		ug/l	100	35.	50
p-Ethyltoluene	ND		ug/l	100	35.	50
1,2,4,5-Tetramethylbenzene	ND		ug/l	100	27.	50
Ethyl ether	ND		ug/l	120	35.	50
trans-1,4-Dichloro-2-butene	ND		ug/l	120	35.	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	91		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-03
Client ID: MW-3
Sample Location: 140 STEWART AVE, BROOKLYN, NY
Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/21 10:59
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	1.2	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.36	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.19	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-03 Date Collected: 06/07/21 10:00

Client ID: MW-3 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	0.82	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	20		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	4.9	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-03 Date Collected: 06/07/21 10:00

Client ID: MW-3 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	92		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-04
Client ID: MW-4
Sample Location: 140 STEWART AVE, BROOKLYN, NY
Date Collected: 06/07/21 12:10
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/21 11:23
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	5.8		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-04 Date Collected: 06/07/21 12:10

Client ID: MW-4 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	2.3	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	1.2	J	ug/l	2.5	0.70	1
Naphthalene	0.70	J	ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-04 Date Collected: 06/07/21 12:10

Client ID: MW-4 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	91		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-05
Client ID: MW-5
Sample Location: 140 STEWART AVE, BROOKLYN, NY
Date Collected: 06/07/21 08:15
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/21 11:46
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	2.0	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.54		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.21	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-05 Date Collected: 06/07/21 08:15

Client ID: MW-5 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	9.5		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	1.9	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-05 Date Collected: 06/07/21 08:15

Client ID: MW-5 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	92		70-130

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-06 Date Collected: 06/07/21 08:20

Client ID: MW-6 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 06/15/21 12:10

Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-06 Date Collected: 06/07/21 08:20

Client ID: MW-6 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.8	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-06 Date Collected: 06/07/21 08:20

Client ID: MW-6 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	92		70-130

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-07 Date Collected: 06/07/21 11:00

Client ID: FIELD BLANK Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 06/15/21 09:26

Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-07 Date Collected: 06/07/21 11:00

Client ID: FIELD BLANK Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-07 Date Collected: 06/07/21 11:00

Client ID: FIELD BLANK Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	92		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-08
Client ID: DUP
Sample Location: 140 STEWART AVE, BROOKLYN, NY
Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/21 12:33
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-08 Date Collected: 06/07/21 11:50

Client ID: DUP Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	37		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-08 Date Collected: 06/07/21 11:50

Client ID: DUP Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	90		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-09
Client ID: TRIP BLANK
Sample Location: 140 STEWART AVE, BROOKLYN, NY
Date Collected: 06/02/21 00:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/15/21 09:49
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-09 Date Collected: 06/02/21 00:00

Client ID: TRIP BLANK Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-09 Date Collected: 06/02/21 00:00

Client ID: TRIP BLANK Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	92		70-130

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/15/21 09:03
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1512351-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/15/21 09:03
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1512351-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/15/21 09:03
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1512351-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	90		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1512351-3 WG1512351-4								
Methylene chloride	96		84		70-130	13		20
1,1-Dichloroethane	110		94		70-130	16		20
Chloroform	94		80		70-130	16		20
Carbon tetrachloride	80		68		63-132	16		20
1,2-Dichloropropane	110		96		70-130	14		20
Dibromochloromethane	88		76		63-130	15		20
1,1,2-Trichloroethane	110		93		70-130	17		20
Tetrachloroethene	89		76		70-130	16		20
Chlorobenzene	99		86		75-130	14		20
Trichlorofluoromethane	82		69		62-150	17		20
1,2-Dichloroethane	100		90		70-130	11		20
1,1,1-Trichloroethane	88		75		67-130	16		20
Bromodichloromethane	87		76		67-130	13		20
trans-1,3-Dichloropropene	100		87		70-130	14		20
cis-1,3-Dichloropropene	91		78		70-130	15		20
1,1-Dichloropropene	97		82		70-130	17		20
Bromoform	89		77		54-136	14		20
1,1,2,2-Tetrachloroethane	120		110		67-130	9		20
Benzene	96		83		70-130	15		20
Toluene	110		91		70-130	19		20
Ethylbenzene	100		88		70-130	13		20
Chloromethane	96		82		64-130	16		20
Bromomethane	40		**37**	Q	39-139	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2130572

Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1512351-3 WG1512351-4								
Vinyl chloride	90		77		55-140	16		20
Chloroethane	97		83		55-138	16		20
1,1-Dichloroethene	87		76		61-145	13		20
trans-1,2-Dichloroethene	92		78		70-130	16		20
Trichloroethene	92		79		70-130	15		20
1,2-Dichlorobenzene	100		90		70-130	11		20
1,3-Dichlorobenzene	100		89		70-130	12		20
1,4-Dichlorobenzene	100		90		70-130	11		20
Methyl tert butyl ether	89		78		63-130	13		20
p/m-Xylene	100		85		70-130	16		20
o-Xylene	100		85		70-130	16		20
cis-1,2-Dichloroethene	93		80		70-130	15		20
Dibromomethane	89		78		70-130	13		20
1,2,3-Trichloropropane	120		110		64-130	9		20
Acrylonitrile	130		110		70-130	17		20
Styrene	100		85		70-130	16		20
Dichlorodifluoromethane	57		48		36-147	17		20
Acetone	130		100		58-148	**26**	Q	20
Carbon disulfide	92		79		51-130	15		20
2-Butanone	130		100		63-138	**26**	Q	20
Vinyl acetate	130		120		70-130	8		20
4-Methyl-2-pentanone	120		100		59-130	18		20
2-Hexanone	**140**	Q	120		57-130	15		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1512351-3 WG1512351-4								
Bromochloromethane	90		77		70-130	16		20
2,2-Dichloropropane	95		80		63-133	17		20
1,2-Dibromoethane	97		84		70-130	14		20
1,3-Dichloropropane	110		97		70-130	13		20
1,1,1,2-Tetrachloroethane	91		79		64-130	14		20
Bromobenzene	100		92		70-130	8		20
n-Butylbenzene	110		99		53-136	11		20
sec-Butylbenzene	110		99		70-130	11		20
tert-Butylbenzene	110		94		70-130	16		20
o-Chlorotoluene	120		100		70-130	18		20
p-Chlorotoluene	120		100		70-130	18		20
1,2-Dibromo-3-chloropropane	83		74		41-144	11		20
Hexachlorobutadiene	91		81		63-130	12		20
Isopropylbenzene	120		100		70-130	18		20
p-Isopropyltoluene	110		93		70-130	17		20
Naphthalene	90		86		70-130	5		20
n-Propylbenzene	120		100		69-130	18		20
1,2,3-Trichlorobenzene	87		80		70-130	8		20
1,2,4-Trichlorobenzene	91		82		70-130	10		20
1,3,5-Trimethylbenzene	110		98		64-130	12		20
1,2,4-Trimethylbenzene	110		99		70-130	11		20
1,4-Dioxane	84		74		56-162	13		20
p-Diethylbenzene	100		94		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2130572

Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1512351-3 WG1512351-4								
p-Ethyltoluene	120		100		70-130	18		20
1,2,4,5-Tetramethylbenzene	100		87		70-130	14		20
Ethyl ether	92		82		59-134	11		20
trans-1,4-Dichloro-2-butene	120		99		70-130	19		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		109		70-130
Toluene-d8	112		112		70-130
4-Bromofluorobenzene	120		120		70-130
Dibromofluoromethane	93		91		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1512351-6 WG1512351-7 QC Sample: L2130572-01 Client ID: MW-1												
Methylene chloride	ND	10	9.5	95		9.6	96		70-130	1		20
1,1-Dichloroethane	ND	10	11	110		11	110		70-130	0		20
Chloroform	ND	10	9.2	92		9.4	94		70-130	2		20
Carbon tetrachloride	ND	10	8.3	83		8.6	86		63-132	4		20
1,2-Dichloropropane	ND	10	11	110		11	110		70-130	0		20
Dibromochloromethane	ND	10	8.6	86		8.5	85		63-130	1		20
1,1,2-Trichloroethane	ND	10	11	110		11	110		70-130	0		20
Tetrachloroethene	ND	10	9.0	90		9.0	90		70-130	0		20
Chlorobenzene	ND	10	9.8	98		9.9	99		75-130	1		20
Trichlorofluoromethane	ND	10	8.7	87		8.8	88		62-150	1		20
1,2-Dichloroethane	ND	10	10	100		10	100		70-130	0		20
1,1,1-Trichloroethane	ND	10	9.1	91		9.2	92		67-130	1		20
Bromodichloromethane	ND	10	8.7	87		8.7	87		67-130	0		20
trans-1,3-Dichloropropene	ND	10	9.5	95		9.7	97		70-130	2		20
cis-1,3-Dichloropropene	ND	10	8.6	86		8.7	87		70-130	1		20
1,1-Dichloropropene	ND	10	10	100		10	100		70-130	0		20
Bromoform	ND	10	8.4	84		8.5	85		54-136	1		20
1,1,2,2-Tetrachloroethane	ND	10	12	120		12	120		67-130	0		20
Benzene	ND	10	9.8	98		9.9	99		70-130	1		20
Toluene	ND	10	11	110		11	110		70-130	0		20
Ethylbenzene	ND	10	10	100		10	100		70-130	0		20
Chloromethane	ND	10	10	100		10	100		64-130	0		20
Bromomethane	ND	10	2.6	**26**	Q	3.6	**36**	Q	39-139	**32**	Q	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1512351-6 WG1512351-7 QC Sample: L2130572-01 Client ID: MW-1												
Vinyl chloride	ND	10	9.8	98		10	100		55-140	2		20
Chloroethane	ND	10	10	100		10	100		55-138	0		20
1,1-Dichloroethene	ND	10	9.3	93		9.6	96		61-145	3		20
trans-1,2-Dichloroethene	ND	10	9.4	94		9.4	94		70-130	0		20
Trichloroethene	ND	10	9.3	93		9.4	94		70-130	1		20
1,2-Dichlorobenzene	ND	10	9.9	99		10	100		70-130	1		20
1,3-Dichlorobenzene	ND	10	10	100		10	100		70-130	0		20
1,4-Dichlorobenzene	ND	10	9.9	99		10	100		70-130	1		20
Methyl tert butyl ether	ND	10	8.9	89		8.8	88		63-130	1		20
p/m-Xylene	ND	20	20	100		20	100		70-130	0		20
o-Xylene	ND	20	20	100		20	100		70-130	0		20
cis-1,2-Dichloroethene	ND	10	9.2	92		9.3	93		70-130	1		20
Dibromomethane	ND	10	8.6	86		8.7	87		70-130	1		20
1,2,3-Trichloropropane	ND	10	12	120		12	120		64-130	0		20
Acrylonitrile	ND	10	13	130		12	120		70-130	8		20
Styrene	ND	20	19	95		20	100		70-130	5		20
Dichlorodifluoromethane	ND	10	5.9	59		5.8	58		36-147	2		20
Acetone	4.1J	10	16	**160**	Q	15	**150**	Q	58-148	6		20
Carbon disulfide	ND	10	9.8	98		10	100		51-130	2		20
2-Butanone	ND	10	14	**140**	Q	14	**140**	Q	63-138	0		20
Vinyl acetate	ND	10	13	130		13	130		70-130	0		20
4-Methyl-2-pentanone	ND	10	12	120		12	120		59-130	0		20
2-Hexanone	ND	10	14	**140**	Q	14	**140**	Q	57-130	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1512351-6 WG1512351-7 QC Sample: L2130572-01 Client ID: MW-1												
Bromochloromethane	ND	10	8.7	87		9.0	90		70-130	3		20
2,2-Dichloropropane	ND	10	8.9	89		9.0	90		63-133	1		20
1,2-Dibromoethane	ND	10	9.4	94		9.4	94		70-130	0		20
1,3-Dichloropropane	ND	10	11	110		11	110		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	10	8.8	88		9.0	90		64-130	2		20
Bromobenzene	ND	10	10	100		10	100		70-130	0		20
n-Butylbenzene	ND	10	11	110		12	120		53-136	9		20
sec-Butylbenzene	ND	10	12	120		12	120		70-130	0		20
tert-Butylbenzene	ND	10	11	110		11	110		70-130	0		20
o-Chlorotoluene	ND	10	12	120		12	120		70-130	0		20
p-Chlorotoluene	ND	10	12	120		12	120		70-130	0		20
1,2-Dibromo-3-chloropropane	ND	10	8.1	81		8.6	86		41-144	6		20
Hexachlorobutadiene	ND	10	7.8	78		8.3	83		63-130	6		20
Isopropylbenzene	ND	10	12	120		12	120		70-130	0		20
p-Isopropyltoluene	ND	10	11	110		11	110		70-130	0		20
Naphthalene	31	10	47	**160**	Q	46	**150**	Q	70-130	2		20
n-Propylbenzene	ND	10	12	120		12	120		69-130	0		20
1,2,3-Trichlorobenzene	ND	10	8.4	84		9.1	91		70-130	8		20
1,2,4-Trichlorobenzene	ND	10	8.7	87		9.1	91		70-130	4		20
1,3,5-Trimethylbenzene	ND	10	12	120		12	120		64-130	0		20
1,2,4-Trimethylbenzene	ND	10	12	120		12	120		70-130	0		20
1,4-Dioxane	ND	500	400	80		420	84		56-162	5		20
p-Diethylbenzene	ND	10	10	100		11	110		70-130	10		20

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2130572

Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1512351-6 WG1512351-7 QC Sample: L2130572-01 Client ID: MW-1												
p-Ethyltoluene	ND	10	12	120		12	120		70-130	0		20
1,2,4,5-Tetramethylbenzene	ND	10	9.9	99		10	100		70-130	1		20
Ethyl ether	ND	10	9.4	94		9.2	92		59-134	2		20
trans-1,4-Dichloro-2-butene	ND	10	10	100		10	100		70-130	0		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		110		70-130
4-Bromofluorobenzene	121		122		70-130
Dibromofluoromethane	93		93		70-130
Toluene-d8	113		113		70-130

SEMIVOLATILES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-01
Client ID: MW-1
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/14/21 05:53
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	1.3	J	ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-01 Date Collected: 06/07/21 11:50

Client ID: MW-1 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	6.8		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	5.6		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	2.5	J	ug/l	5.0	0.57	1
2-Methylphenol	5.3		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	15.		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	6.4	J	ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	8.1		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	115		10-120
4-Terphenyl-d14	95		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-01
Client ID: MW-1
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/13/21 15:33
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	9.8		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	33		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	20		ug/l	0.10	0.05	1
Benzo(a)anthracene	17		ug/l	0.10	0.02	1
Benzo(a)pyrene	14		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	17		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	4.9		ug/l	0.10	0.01	1
Chrysene	15		ug/l	0.10	0.01	1
Acenaphthylene	1.3		ug/l	0.10	0.01	1
Anthracene	12		ug/l	0.10	0.01	1
Benzo(ghi)perylene	9.4		ug/l	0.10	0.01	1
Fluorene	9.8		ug/l	0.10	0.01	1
Phenanthrene	44		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	2.0		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	10		ug/l	0.10	0.01	1
Pyrene	29		ug/l	0.10	0.02	1
2-Methylnaphthalene	5.2		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-01 Date Collected: 06/07/21 11:50

Client ID: MW-1 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	**137**	Q	10-120
4-Terphenyl-d14	77		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-01
Client ID: MW-1
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/15/21 08:03
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	1180		ng/l	134	30.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	59		15-110

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-01
Client ID: MW-1
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 06/14/21 02:09
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 06/10/21 04:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	13.1		ng/l	1.77	0.361	1
Perfluoropentanoic Acid (PFPeA)	29.1		ng/l	1.77	0.351	1
Perfluorobutanesulfonic Acid (PFBS)	4.34		ng/l	1.77	0.211	1
Perfluorohexanoic Acid (PFHxA)	19.6		ng/l	1.77	0.290	1
Perfluoroheptanoic Acid (PFHpA)	10.0		ng/l	1.77	0.199	1
Perfluorohexanesulfonic Acid (PFHxS)	35.2		ng/l	1.77	0.333	1
Perfluorooctanoic Acid (PFOA)	41.1		ng/l	1.77	0.209	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	18.9		ng/l	1.77	1.18	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.40	J	ng/l	1.77	0.609	1
Perfluorononanoic Acid (PFNA)	3.90		ng/l	1.77	0.276	1
Perfluorooctanesulfonic Acid (PFOS)	67.9		ng/l	1.77	0.446	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.77	0.269	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.77	1.07	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.77	0.574	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.77	0.230	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.77	0.868	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.77	0.514	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2.40		ng/l	1.77	0.712	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.77	0.330	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.77	0.290	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.77	0.220	1
PFOA/PFOS, Total	109		ng/l	1.77	0.209	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-01 Date Collected: 06/07/21 11:50

Client ID: MW-1 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	83		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	83		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	133		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	78		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	84		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	69		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	97		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	47		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	70		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	26		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	59		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	69		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	58		22-136

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-02
Client ID: MW-2
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/14/21 03:37
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	2.7		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.6	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-02 Date Collected: 06/07/21 10:00

Client ID: MW-2 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	66		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-02
Client ID: MW-2
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/13/21 15:53
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.32		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	1.8		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.41		ug/l	0.10	0.05	1
Benzo(a)anthracene	1.0		ug/l	0.10	0.02	1
Benzo(a)pyrene	1.0		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	1.2		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.43		ug/l	0.10	0.01	1
Chrysene	0.93		ug/l	0.10	0.01	1
Acenaphthylene	0.05	J	ug/l	0.10	0.01	1
Anthracene	0.38		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.79		ug/l	0.10	0.01	1
Fluorene	0.31		ug/l	0.10	0.01	1
Phenanthrene	0.77		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.16		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.82		ug/l	0.10	0.01	1
Pyrene	1.7		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.20		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-02 Date Collected: 06/07/21 10:00

Client ID: MW-2 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	60		15-120
2,4,6-Tribromophenol	103		10-120
4-Terphenyl-d14	58		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-02
Client ID: MW-2
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/15/21 09:18
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	134	30.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	57		15-110

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-02
Client ID: MW-2
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 06/14/21 02:59
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 06/10/21 04:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	9.90		ng/l	1.79	0.366	1
Perfluoropentanoic Acid (PFPeA)	21.7		ng/l	1.79	0.355	1
Perfluorobutanesulfonic Acid (PFBS)	3.08		ng/l	1.79	0.213	1
Perfluorohexanoic Acid (PFHxA)	16.1		ng/l	1.79	0.294	1
Perfluoroheptanoic Acid (PFHpA)	7.05		ng/l	1.79	0.202	1
Perfluorohexanesulfonic Acid (PFHxS)	12.7		ng/l	1.79	0.337	1
Perfluorooctanoic Acid (PFOA)	16.0		ng/l	1.79	0.212	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.79	1.19	1
Perfluoroheptanesulfonic Acid (PFHpS)	2.12	F	ng/l	1.79	0.617	1
Perfluorononanoic Acid (PFNA)	3.97		ng/l	1.79	0.280	1
Perfluorooctanesulfonic Acid (PFOS)	284		ng/l	1.79	0.452	1
Perfluorodecanoic Acid (PFDA)	3.47		ng/l	1.79	0.273	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.79	1.09	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.79	0.581	1
Perfluoroundecanoic Acid (PFUnA)	0.366	J	ng/l	1.79	0.233	1
Perfluorodecanesulfonic Acid (PFDS)	3.82		ng/l	1.79	0.879	1
Perfluorooctanesulfonamide (FOSA)	7.34	F	ng/l	1.79	0.520	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	71.3		ng/l	1.79	0.721	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.79	0.334	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.79	0.293	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.79	0.222	1
PFOA/PFOS, Total	300		ng/l	1.79	0.212	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-02 Date Collected: 06/07/21 10:00

Client ID: MW-2 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	82		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**162**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	75		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	81		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	110		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	75		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	91		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	21		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	84		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	61		22-136

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-03
Client ID: MW-3
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/14/21 04:00
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-03 Date Collected: 06/07/21 10:00

Client ID: MW-3 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	0.52	J	ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	12.	J	ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	49		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	60		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-03
Client ID: MW-3
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/13/21 16:14
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.08	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.33		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.32		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.15		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.14		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.18		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.07	J	ug/l	0.10	0.01	1
Chrysene	0.16		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.10		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.15		ug/l	0.10	0.01	1
Fluorene	0.08	J	ug/l	0.10	0.01	1
Phenanthrene	0.32		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.06	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.14		ug/l	0.10	0.01	1
Pyrene	0.33		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.09	J	ug/l	0.10	0.02	1
Pentachlorophenol	0.14	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-03 Date Collected: 06/07/21 10:00

Client ID: MW-3 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	115		10-120
4-Terphenyl-d14	59		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-03
Client ID: MW-3
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/15/21 09:41
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	2740		ng/l	150	33.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	62		15-110

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-03
Client ID: MW-3
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 06/14/21 03:15
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 06/10/21 04:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	95.6		ng/l	10.0	2.04	1
Perfluoropentanoic Acid (PFPeA)	141		ng/l	10.0	1.98	1
Perfluorobutanesulfonic Acid (PFBS)	7.70	J	ng/l	10.0	1.19	1
Perfluorohexanoic Acid (PFHxA)	96.3		ng/l	10.0	1.64	1
Perfluoroheptanoic Acid (PFHpA)	84.9		ng/l	10.0	1.13	1
Perfluorohexanesulfonic Acid (PFHxS)	18.8		ng/l	10.0	1.88	1
Perfluorooctanoic Acid (PFOA)	136		ng/l	10.0	1.18	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	10.0	6.66	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	10.0	3.44	1
Perfluorononanoic Acid (PFNA)	6.84	J	ng/l	10.0	1.56	1
Perfluorooctanesulfonic Acid (PFOS)	150		ng/l	10.0	2.52	1
Perfluorodecanoic Acid (PFDA)	2.14	J	ng/l	10.0	1.52	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	10.0	6.06	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	10.0	3.24	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	10.0	1.30	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	10.0	4.90	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	10.0	2.90	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	10.0	4.02	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	10.0	1.86	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	10.0	1.64	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	10.0	1.24	1
PFOA/PFOS, Total	286		ng/l	10.0	1.18	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-03 Date Collected: 06/07/21 10:00

Client ID: MW-3 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	80		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	113		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	86		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	73		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	73		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	82		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	77		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	129		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	72		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	82		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	74		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	106		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	63		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	68		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	15		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	65		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	44		22-136

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-04
Client ID: MW-4
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 12:10
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/14/21 03:14
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-04 Date Collected: 06/07/21 12:10

Client ID: MW-4 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	0.51	J	ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	0.68	J	ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	8.3	J	ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	68		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-04
Client ID: MW-4
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 12:10
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/13/21 16:34
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	2.1		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	2.2		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.28		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.29		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.15		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.23		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.08	J	ug/l	0.10	0.01	1
Chrysene	0.29		ug/l	0.10	0.01	1
Acenaphthylene	0.03	J	ug/l	0.10	0.01	1
Anthracene	0.82		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.13		ug/l	0.10	0.01	1
Fluorene	1.2		ug/l	0.10	0.01	1
Phenanthrene	4.6		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.02	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.13		ug/l	0.10	0.01	1
Pyrene	1.5		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.09	J	ug/l	0.10	0.02	1
Pentachlorophenol	0.10	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-04 Date Collected: 06/07/21 12:10

Client ID: MW-4 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	104		10-120
4-Terphenyl-d14	59		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-04
Client ID: MW-4
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 12:10
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/15/21 10:04
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	134	30.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	58		15-110

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-04
Client ID: MW-4
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 12:10
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 06/14/21 03:32
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 06/10/21 04:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	55.9		ng/l	1.92	0.391	1
Perfluoropentanoic Acid (PFPeA)	160		ng/l	1.92	0.380	1
Perfluorobutanesulfonic Acid (PFBS)	13.8		ng/l	1.92	0.228	1
Perfluorohexanoic Acid (PFHxA)	105		ng/l	1.92	0.314	1
Perfluoroheptanoic Acid (PFHpA)	129		ng/l	1.92	0.216	1
Perfluorohexanesulfonic Acid (PFHxS)	16.7		ng/l	1.92	0.360	1
Perfluorooctanoic Acid (PFOA)	86.3		ng/l	1.92	0.226	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.92	1.28	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.913	J	ng/l	1.92	0.660	1
Perfluorononanoic Acid (PFNA)	22.5		ng/l	1.92	0.299	1
Perfluorooctanesulfonic Acid (PFOS)	56.1		ng/l	1.92	0.483	1
Perfluorodecanoic Acid (PFDA)	0.813	J	ng/l	1.92	0.292	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.92	1.16	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.92	0.621	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.92	0.249	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.92	0.940	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.92	0.556	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.917	J	ng/l	1.92	0.771	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.92	0.357	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.92	0.314	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.92	0.238	1
PFOA/PFOS, Total	142		ng/l	1.92	0.226	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-04 Date Collected: 06/07/21 12:10

Client ID: MW-4 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	79		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	79		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	72		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	70		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	81		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	72		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	126		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	65		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	76		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**61**	Q	62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	96		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	50		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	62		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	23		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	61		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	58		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	50		22-136

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-05
Client ID: MW-5
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 08:15
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/14/21 05:30
Analyst:

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-05 Date Collected: 06/07/21 08:15

Client ID: MW-5 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	10.	J	ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	93		15-120
2,4,6-Tribromophenol	111		10-120
4-Terphenyl-d14	98		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-05
Client ID: MW-5
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 08:15
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/13/21 16:55
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	3.1		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.39		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.61		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.18		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.15		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.20		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.05	J	ug/l	0.10	0.01	1
Chrysene	0.16		ug/l	0.10	0.01	1
Acenaphthylene	0.03	J	ug/l	0.10	0.01	1
Anthracene	0.14		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.13		ug/l	0.10	0.01	1
Fluorene	0.73		ug/l	0.10	0.01	1
Phenanthrene	0.73		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.03	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.13		ug/l	0.10	0.01	1
Pyrene	0.34		ug/l	0.10	0.02	1
2-Methylnaphthalene	1.4		ug/l	0.10	0.02	1
Pentachlorophenol	0.10	J	ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-05 Date Collected: 06/07/21 08:15

Client ID: MW-5 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	115		10-120
4-Terphenyl-d14	65		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-06
Client ID: MW-6
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 08:20
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/14/21 02:29
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-06 Date Collected: 06/07/21 08:20

Client ID: MW-6 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	37		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	64		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-06
Client ID: MW-6
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 08:20
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/13/21 17:15
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.02	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.05	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.03	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.03	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.04	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.04	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-06 Date Collected: 06/07/21 08:20

Client ID: MW-6 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	49		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	52		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-07
Client ID: FIELD BLANK
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/14/21 01:43
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-07 Date Collected: 06/07/21 11:00

Client ID: FIELD BLANK Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	53		10-120
4-Terphenyl-d14	74		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-07
Client ID: FIELD BLANK
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/13/21 17:35
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.02	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.01	J	ug/l	0.10	0.01	1
Acenaphthylene	0.01	J	ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.01	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.01	J	ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.02	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-07 Date Collected: 06/07/21 11:00

Client ID: FIELD BLANK Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	65		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-07
Client ID: FIELD BLANK
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/15/21 10:29
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	134	30.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	60		15-110

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-07
Client ID: FIELD BLANK
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 06/14/21 04:05
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 06/10/21 04:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.76	0.360	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.76	0.349	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.76	0.210	1
Perfluorohexanoic Acid (PFHxA)	0.342	J	ng/l	1.76	0.289	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.76	0.199	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.76	0.332	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.76	0.208	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.76	1.18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.76	0.607	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.76	0.275	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.76	0.445	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.76	0.268	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.76	1.07	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.76	0.572	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.76	0.229	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.76	0.864	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.76	0.512	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.76	0.709	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.76	0.328	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.76	0.289	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.76	0.219	1
PFOA/PFOS, Total	ND		ng/l	1.76	0.208	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-07 Date Collected: 06/07/21 11:00

Client ID: FIELD BLANK Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	84		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	114		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	82		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	83		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	82		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	76		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	75		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	76		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	81		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	58		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	77		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	20		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	53		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	62		22-136

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-08
Client ID: DUP
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/14/21 04:22
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	0.60	J	ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-08 Date Collected: 06/07/21 11:50

Client ID: DUP Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	2.4		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	4.9	J	ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	2.4	J	ug/l	5.0	0.57	1
2-Methylphenol	4.6	J	ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	13.		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	3.4		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	94		10-120
4-Terphenyl-d14	78		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-08
Client ID: DUP
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/13/21 17:56
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	5.4		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	8.2		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	15		ug/l	0.10	0.05	1
Benzo(a)anthracene	3.6		ug/l	0.10	0.02	1
Benzo(a)pyrene	2.9		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	3.6		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	1.1		ug/l	0.10	0.01	1
Chrysene	3.1		ug/l	0.10	0.01	1
Acenaphthylene	0.47		ug/l	0.10	0.01	1
Anthracene	3.4		ug/l	0.10	0.01	1
Benzo(ghi)perylene	1.9		ug/l	0.10	0.01	1
Fluorene	4.0		ug/l	0.10	0.01	1
Phenanthrene	13		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.40		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	2.1		ug/l	0.10	0.01	1
Pyrene	7.0		ug/l	0.10	0.02	1
2-Methylnaphthalene	2.9		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-08 Date Collected: 06/07/21 11:50

Client ID: DUP Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	**121**	Q	10-120
4-Terphenyl-d14	69		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-08
Client ID: DUP
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/15/21 10:55
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	1180		ng/l	139	31.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	58		15-110

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-08
Client ID: DUP
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 06/14/21 04:22
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 06/10/21 04:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	12.9		ng/l	1.81	0.369	1
Perfluoropentanoic Acid (PFPeA)	30.2		ng/l	1.81	0.358	1
Perfluorobutanesulfonic Acid (PFBS)	5.43		ng/l	1.81	0.215	1
Perfluorohexanoic Acid (PFHxA)	21.2		ng/l	1.81	0.296	1
Perfluoroheptanoic Acid (PFHpA)	10.7		ng/l	1.81	0.203	1
Perfluorohexanesulfonic Acid (PFHxS)	36.8		ng/l	1.81	0.340	1
Perfluorooctanoic Acid (PFOA)	43.0		ng/l	1.81	0.213	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	18.2		ng/l	1.81	1.20	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.89		ng/l	1.81	0.622	1
Perfluorononanoic Acid (PFNA)	4.13		ng/l	1.81	0.282	1
Perfluorooctanesulfonic Acid (PFOS)	72.5		ng/l	1.81	0.455	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.81	0.275	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.81	1.10	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.81	0.585	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.81	0.235	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.81	0.885	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.81	0.524	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	3.01	F	ng/l	1.81	0.726	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.81	0.336	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.81	0.296	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.81	0.224	1
PFOA/PFOS, Total	116		ng/l	1.81	0.213	1

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-08 Date Collected: 06/07/21 11:50

Client ID: DUP Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	85		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	94		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	79		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	81		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	85		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**153**	Q	14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	74		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	81		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	68		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	103		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	54		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	69		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	26		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	65		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	68		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	57		22-136

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 06/10/21 09:31
Analyst: MP

Extraction Method: ALPHA 23528
Extraction Date: 06/10/21 04:45

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-04,07-08 Batch: WG1510093-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	61		10-112

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 06/14/21 00:13
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 06/10/21 04:45

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-04,07-08 Batch: WG1510093-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	0.424	J	ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 06/14/21 00:13
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 06/10/21 04:45

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-04,07-08 Batch: WG1510093-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	112		62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91		71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	90		14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	78		59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88		69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	80		62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	91		10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	67		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	83		55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	16		10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	57		27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	61		22-136

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/13/21 20:43
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1511255-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/13/21 20:43
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1511255-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/13/21 20:43
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1511255-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	86		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/13/21 11:09
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:11

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-08 Batch: WG1511256-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	0.03	J	ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/13/21 11:09
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 06/12/21 08:11

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-08 Batch: WG1511256-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	89		15-120
2,4,6-Tribromophenol	112		10-120
4-Terphenyl-d14	96		41-149

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/15/21 06:30
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 08:00

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-04,07-08 Batch: WG1511602-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	64		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2130572

Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04,07-08 Batch: WG1510093-2								
Perfluorooctanesulfonamide (FOSA)	109		-		46-170	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	69				10-112

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04,07-08 Batch: WG1510093-2								
Perfluorobutanoic Acid (PFBA)	119		-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	119		-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	116		-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	119		-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	119		-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	123		-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	118		-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	128		-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	122		-		61-179	-		30
Perfluorononanoic Acid (PFNA)	127		-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	120		-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	123		-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	139		-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	133		-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	121		-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	110		-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	121		-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	136		-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	127		-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	125		-		48-158	-		30
Perfluorotetradecanoic Acid (PFTA)	135		-		59-182	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04,07-08 Batch: WG1510093-2

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91				58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	114				62-163
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103				70-131
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94				57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92				60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89				71-134
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90				62-129
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	106				14-147
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	82				59-139
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95				69-131
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	84				62-124
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	95				10-162
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	70				24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	86				55-137
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	23				10-112
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	63				27-126
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	83				48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	67				22-136

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2130572

Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1511255-2 WG1511255-3								
Acenaphthene	63		59		37-111	7		30
1,2,4-Trichlorobenzene	64		60		39-98	6		30
Hexachlorobenzene	70		66		40-140	6		30
Bis(2-chloroethyl)ether	60		57		40-140	5		30
2-Chloronaphthalene	67		62		40-140	8		30
1,2-Dichlorobenzene	64		61		40-140	5		30
1,3-Dichlorobenzene	62		59		40-140	5		30
1,4-Dichlorobenzene	64		59		36-97	8		30
3,3'-Dichlorobenzidine	59		55		40-140	7		30
2,4-Dinitrotoluene	71		69		48-143	3		30
2,6-Dinitrotoluene	75		68		40-140	10		30
Fluoranthene	68		62		40-140	9		30
4-Chlorophenyl phenyl ether	66		61		40-140	8		30
4-Bromophenyl phenyl ether	67		64		40-140	5		30
Bis(2-chloroisopropyl)ether	50		48		40-140	4		30
Bis(2-chloroethoxy)methane	62		59		40-140	5		30
Hexachlorobutadiene	69		64		40-140	8		30
Hexachlorocyclopentadiene	74		70		40-140	6		30
Hexachloroethane	63		58		40-140	8		30
Isophorone	61		56		40-140	9		30
Naphthalene	66		62		40-140	6		30
Nitrobenzene	69		64		40-140	8		30
NDPA/DPA	65		60		40-140	8		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1511255-2 WG1511255-3								
n-Nitrosodi-n-propylamine	66		61		29-132	8		30
Bis(2-ethylhexyl)phthalate	76		72		40-140	5		30
Butyl benzyl phthalate	77		75		40-140	3		30
Di-n-butylphthalate	72		66		40-140	9		30
Di-n-octylphthalate	78		73		40-140	7		30
Diethyl phthalate	68		64		40-140	6		30
Dimethyl phthalate	73		67		40-140	9		30
Benzo(a)anthracene	71		64		40-140	10		30
Benzo(a)pyrene	78		73		40-140	7		30
Benzo(b)fluoranthene	71		66		40-140	7		30
Benzo(k)fluoranthene	73		69		40-140	6		30
Chrysene	67		61		40-140	9		30
Acenaphthylene	74		67		45-123	10		30
Anthracene	70		64		40-140	9		30
Benzo(ghi)perylene	67		63		40-140	6		30
Fluorene	65		61		40-140	6		30
Phenanthrene	69		61		40-140	12		30
Dibenzo(a,h)anthracene	69		66		40-140	4		30
Indeno(1,2,3-cd)pyrene	70		66		40-140	6		30
Pyrene	66		60		26-127	10		30
Biphenyl	69		65		40-140	6		30
4-Chloroaniline	54		58		40-140	7		30
2-Nitroaniline	76		71		52-143	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1511255-2 WG1511255-3								
3-Nitroaniline	60		57		25-145	5		30
4-Nitroaniline	60		60		51-143	0		30
Dibenzofuran	64		60		40-140	6		30
2-Methylnaphthalene	69		63		40-140	9		30
1,2,4,5-Tetrachlorobenzene	71		66		2-134	7		30
Acetophenone	63		60		39-129	5		30
2,4,6-Trichlorophenol	78		69		30-130	12		30
p-Chloro-m-cresol	76		68		23-97	11		30
2-Chlorophenol	68		63		27-123	8		30
2,4-Dichlorophenol	74		67		30-130	10		30
2,4-Dimethylphenol	72		61		30-130	17		30
2-Nitrophenol	92		88		30-130	4		30
4-Nitrophenol	53		51		10-80	4		30
2,4-Dinitrophenol	67		54		20-130	21		30
4,6-Dinitro-o-cresol	78		68		20-164	14		30
Pentachlorophenol	67		55		9-103	20		30
Phenol	48		43		12-110	11		30
2-Methylphenol	63		61		30-130	3		30
3-Methylphenol/4-Methylphenol	67		64		30-130	5		30
2,4,5-Trichlorophenol	72		70		30-130	3		30
Benzoic Acid	51		**0**	Q	10-164	NC		30
Benzyl Alcohol	62		58		26-116	7		30
Carbazole	68		62		55-144	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1511255-2 WG1511255-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		67		21-120
Phenol-d6	56		52		10-120
Nitrobenzene-d5	82		77		23-120
2-Fluorobiphenyl	82		75		15-120
2,4,6-Tribromophenol	93		88		10-120
4-Terphenyl-d14	83		79		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 Batch: WG1511256-2 WG1511256-3								
Acenaphthene	72		75		40-140	4		40
2-Chloronaphthalene	74		77		40-140	4		40
Fluoranthene	72		77		40-140	7		40
Hexachlorobutadiene	69		71		40-140	3		40
Naphthalene	71		73		40-140	3		40
Benzo(a)anthracene	69		73		40-140	6		40
Benzo(a)pyrene	75		79		40-140	5		40
Benzo(b)fluoranthene	71		76		40-140	7		40
Benzo(k)fluoranthene	78		85		40-140	9		40
Chrysene	72		78		40-140	8		40
Acenaphthylene	72		76		40-140	5		40
Anthracene	75		79		40-140	5		40
Benzo(ghi)perylene	73		74		40-140	1		40
Fluorene	76		80		40-140	5		40
Phenanthrene	70		73		40-140	4		40
Dibenzo(a,h)anthracene	81		83		40-140	2		40
Indeno(1,2,3-cd)pyrene	75		76		40-140	1		40
Pyrene	71		75		40-140	5		40
2-Methylnaphthalene	75		79		40-140	5		40
Pentachlorophenol	81		103		40-140	24		40
Hexachlorobenzene	71		73		40-140	3		40
Hexachloroethane	73		75		40-140	3		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 Batch: WG1511256-2 WG1511256-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	73		76		21-120
Phenol-d6	60		61		10-120
Nitrobenzene-d5	86		87		23-120
2-Fluorobiphenyl	83		84		15-120
2,4,6-Tribromophenol	**124**	Q	**135**	Q	10-120
4-Terphenyl-d14	85		88		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2130572

Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab	Associated sample(s): 01-04,07-08		Batch: WG1511602-2		WG1511602-3			
1,4-Dioxane	113		116		40-140	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	69		67		15-110

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04,07-08 QC Batch ID: WG1510093-3 WG1510093-4 QC Sample: L2130572-01 Client ID: MW-1												
Perfluorobutanoic Acid (PFBA)	13.1	35.7	55.7	119		55.2	119		67-148	1		30
Perfluoropentanoic Acid (PFPeA)	29.1	35.7	71.5	119		72.4	122		63-161	1		30
Perfluorobutanesulfonic Acid (PFBS)	4.34	31.7	42.2	119		40.1	114		65-157	5		30
Perfluorohexanoic Acid (PFHxA)	19.6	35.7	63.0	122		61.4	118		69-168	3		30
Perfluoroheptanoic Acid (PFHpA)	10.0	35.7	52.3	118		51.8	118		58-159	1		30
Perfluorohexanesulfonic Acid (PFHxS)	35.2	32.6	73.0	116		75.5	125		69-177	3		30
Perfluorooctanoic Acid (PFOA)	41.1	35.7	83.8	120		81.6	115		63-159	3		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	18.9	34	59.6	120		60.9	125		49-187	2		30
Perfluoroheptanesulfonic Acid (PFHpS)	1.40J	34	41.4	118		39.6	113		61-179	4		30
Perfluorononanoic Acid (PFNA)	3.90	35.7	49.5	128		48.5	126		68-171	2		30
Perfluorooctanesulfonic Acid (PFOS)	67.9	33.1	108	121		107	119		52-151	1		30
Perfluorodecanoic Acid (PFDA)	ND	35.7	45.1	126		44.5	126		63-171	1		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	34.3	46.3	135		43.9	129		56-173	5		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	35.7	40.9	115		51.3	145		60-166	23		30
Perfluoroundecanoic Acid (PFUnA)	ND	35.7	43.7	122		45.8	130		60-153	5		30
Perfluorodecanesulfonic Acid (PFDS)	ND	34.4	35.5	103		35.7	105		38-156	1		30
Perfluorooctanesulfonamide (FOSA)	ND	35.7	40.9	115		40.1	113		46-170	2		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2.40	35.7	53.9F	144		55.8F	151		45-170	3		30
Perfluorododecanoic Acid (PFDoA)	ND	35.7	44.3	124		44.1	125		67-153	0		30
Perfluorotridecanoic Acid (PFTrDA)	ND	35.7	43.3	121		42.6	120		48-158	2		30
Perfluorotetradecanoic Acid (PFTA)	ND	35.7	47.2	132		49.4	140		59-182	5		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2130572

Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04,07-08 QC Batch ID: WG1510093-3 WG1510093-4 QC Sample: L2130572-01 Client ID: MW-1

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	99		97		10-162
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	143		147		14-147
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	61		58		27-126
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	65		54		24-116
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	70		64		55-137
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	67		67		62-124
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	78		76		57-129
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	78		76		60-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	84		77		71-134
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		66		48-131
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	61		54		22-136
Perfluoro[13C4]Butanoic Acid (MPFBA)	84		81		58-132
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		85		62-163
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	28		29		10-112
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	82		78		69-131
Perfluoro[13C8]Octanoic Acid (M8PFOA)	79		77		62-129
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	75		73		59-139
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93		91		70-131

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1511255-4 WG1511255-5 QC Sample: L2130572-01 Client ID: MW-1												
1,2,4-Trichlorobenzene	ND	18.2	12	66		14	77		39-98	15		30
Bis(2-chloroethyl)ether	ND	18.2	10	55		11	61		40-140	10		30
1,2-Dichlorobenzene	ND	18.2	12	66		13	72		40-140	8		30
1,3-Dichlorobenzene	ND	18.2	12	66		13	72		40-140	8		30
1,4-Dichlorobenzene	ND	18.2	12	66		13	72		36-97	8		30
3,3'-Dichlorobenzidine	ND	18.2	2.7J	**15**	Q	ND	**0**	Q	40-140	NC		30
2,4-Dinitrotoluene	ND	18.2	13	72		17	94		48-143	27		30
2,6-Dinitrotoluene	ND	18.2	12	66		16	88		40-140	29		30
4-Chlorophenyl phenyl ether	ND	18.2	13	72		16	88		40-140	21		30
4-Bromophenyl phenyl ether	ND	18.2	14	77		18	99		40-140	25		30
Bis(2-chloroisopropyl)ether	ND	18.2	7.4	41		8.3	46		40-140	11		30
Bis(2-chloroethoxy)methane	ND	18.2	9.5	52		11	61		40-140	15		30
Hexachlorocyclopentadiene	ND	18.2	11.J	61		12.J	66		40-140	9		30
Isophorone	ND	18.2	9.4	52		11	61		40-140	16		30
Nitrobenzene	ND	18.2	10	55		11	61		40-140	10		30
NDPA/DPA	ND	18.2	13	72		16	88		40-140	21		30
n-Nitrosodi-n-propylamine	ND	18.2	10	55		11	61		29-132	10		30
Bis(2-ethylhexyl)phthalate	ND	18.2	13	72		16	88		40-140	21		30
Butyl benzyl phthalate	ND	18.2	12	66		17	94		40-140	**34**	Q	30
Di-n-butylphthalate	ND	18.2	12	66		15	83		40-140	22		30
Di-n-octylphthalate	ND	18.2	13	72		16	88		40-140	21		30
Diethyl phthalate	ND	18.2	12	66		15	83		40-140	22		30
Dimethyl phthalate	ND	18.2	12	66		16	88		40-140	29		30

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1511255-4 WG1511255-5 QC Sample: L2130572-01 Client ID: MW-1												
Biphenyl	1.3J	18.2	14	77		17	94		40-140	19		30
4-Chloroaniline	ND	18.2	11	61		11	61		40-140	0		30
2-Nitroaniline	ND	18.2	13	72		17	94		52-143	27		30
3-Nitroaniline	ND	18.2	10	55		11	61		25-145	10		30
4-Nitroaniline	ND	18.2	10	55		14	77		51-143	**33**	Q	30
Dibenzofuran	6.8	18.2	17	56		22	84		40-140	26		30
1,2,4,5-Tetrachlorobenzene	ND	18.2	14	77		16	88		2-134	13		30
Acetophenone	ND	18.2	11	61		13	72		39-129	17		30
2,4,6-Trichlorophenol	ND	18.2	14	77		17	94		30-130	19		30
p-Chloro-m-cresol	ND	18.2	13	72		16	88		23-97	21		30
2-Chlorophenol	ND	18.2	12	66		13	72		27-123	8		30
2,4-Dichlorophenol	ND	18.2	12	66		14	77		30-130	15		30
2,4-Dimethylphenol	5.6	18.2	19	74		23	96		30-130	19		30
2-Nitrophenol	ND	18.2	12	66		13	72		30-130	8		30
4-Nitrophenol	ND	18.2	10	55		14	77		10-80	**33**	Q	30
2,4-Dinitrophenol	ND	18.2	14.J	77		19.J	100		20-130	30		30
4,6-Dinitro-o-cresol	ND	18.2	12	66		17	94		20-164	**34**	Q	30
Phenol	2.5J	18.2	11	61		12	66		12-110	9		30
2-Methylphenol	5.3	18.2	16	59		18	70		30-130	12		30
3-Methylphenol/4-Methylphenol	15	18.2	26	61		30	83		30-130	14		30
2,4,5-Trichlorophenol	ND	18.2	14	77		18	99		30-130	25		30
Benzoic Acid	6.4J	18.2	13.J	72		18.J	99		10-164	**32**	Q	30
Benzyl Alcohol	ND	18.2	10	55		12	66		26-116	18		30

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1511255-4 WG1511255-5 QC Sample: L2130572-01 Client ID: MW-1												
Carbazole	8.1	18.2	18	**54**	Q	24	87		55-144	**34**	Q	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	98		**131**	Q	10-120
2-Fluorobiphenyl	84		97		15-120
2-Fluorophenol	67		73		21-120
4-Terphenyl-d14	82		107		41-149
Nitrobenzene-d5	66		74		23-120
Phenol-d6	50		57		10-120

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1511256-4 WG1511256-5 QC Sample: L2130572-01 Client ID: MW-1												
Acenaphthene	9.8	18.2	19	51		26	89		40-140	31		40
2-Chloronaphthalene	ND	18.2	12	66		15	83		40-140	22		40
Fluoranthene	33	18.2	28	**0**	Q	50	94		40-140	**56**	Q	40
Hexachlorobutadiene	ND	18.2	11	61		14	77		40-140	24		40
Naphthalene	20	18.2	30	55		40	110		40-140	29		40
Benzo(a)anthracene	17	18.2	20	**17**	Q	31	77		40-140	**43**	Q	40
Benzo(a)pyrene	14	18.2	19	**28**	Q	29	83		40-140	**42**	Q	40
Benzo(b)fluoranthene	17	18.2	19	**11**	Q	29	66		40-140	**42**	Q	40
Benzo(k)fluoranthene	4.9	18.2	16	61		18	72		40-140	12		40
Chrysene	15	18.2	17	**11**	Q	28	72		40-140	**49**	Q	40
Acenaphthylene	1.3	18.2	13	64		17	86		40-140	27		40
Anthracene	12	18.2	18	**33**	Q	26	77		40-140	36		40
Benzo(ghi)perylene	9.4	18.2	18	47		26	91		40-140	36		40
Fluorene	9.8	18.2	18	45		26	89		40-140	36		40
Phenanthrene	44	18.2	31	**0**	Q	55	61		40-140	**56**	Q	40
Dibenzo(a,h)anthracene	2.0	18.2	15	72		20	99		40-140	29		40
Indeno(1,2,3-cd)pyrene	10	18.2	19	50		29	100		40-140	**42**	Q	40
Pyrene	29	18.2	26	**0**	Q	46	94		40-140	**56**	Q	40
2-Methylnaphthalene	5.2	18.2	15	54		21	87		40-140	33		40
Pentachlorophenol	ND	18.2	22	120		28	**150**	Q	40-140	24		40
Hexachlorobenzene	ND	18.2	12	66		15	83		40-140	22		40
Hexachloroethane	ND	18.2	12	66		15	83		40-140	22		40

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1511256-4 WG1511256-5 QC Sample: L2130572-01 Client ID: MW-1												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	**140**	Q	**183**	Q	10-120
2-Fluorobiphenyl	74		95		15-120
2-Fluorophenol	77		99		21-120
4-Terphenyl-d14	88		106		41-149
Nitrobenzene-d5	82		107		23-120
Phenol-d6	64		83		10-120

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-04,07-08 QC Batch ID: WG1511602-4 WG1511602-5 QC Sample: L2130572-01 Client ID: MW-1												
1,4-Dioxane	1180	4460	6560	121		6570	121		40-140	0		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,4-Dioxane-d8	59		60		15-110

PCBS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-01
Client ID: MW-1
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 06/15/21 11:43
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 11:10
Cleanup Method: EPA 3665A
Cleanup Date: 06/15/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/15/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**189**	Q	30-150	A
Decachlorobiphenyl	148		30-150	A
2,4,5,6-Tetrachloro-m-xylene	**187**	Q	30-150	B
Decachlorobiphenyl	**181**	Q	30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-02
Client ID: MW-2
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 06/13/21 21:52
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 06/11/21 20:01
Cleanup Method: EPA 3665A
Cleanup Date: 06/12/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-03
Client ID: MW-3
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 06/13/21 21:21
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 06/11/21 20:01
Cleanup Method: EPA 3665A
Cleanup Date: 06/12/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	0.102		ug/l	0.071	0.061	1	B
Aroclor 1260	ND		ug/l	0.071	0.061	1	B
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	0.102		ug/l	0.071	0.061	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	32		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	35		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-04
Client ID: MW-4
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 12:10
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 06/13/21 21:29
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 06/11/21 20:01
Cleanup Method: EPA 3665A
Cleanup Date: 06/12/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	0.071	J	ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	0.071	J	ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-07
Client ID: FIELD BLANK
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 06/15/21 12:06
Analyst: JAW

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 11:10
Cleanup Method: EPA 3665A
Cleanup Date: 06/15/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/15/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	0.064	J	ug/l	0.071	0.061	1	B
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	B
Aroclor 1260	ND		ug/l	0.071	0.061	1	B
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	0.064	J	ug/l	0.071	0.061	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	112		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	123		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-08
Client ID: DUP
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 06/13/21 23:28
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 06/11/21 20:01
Cleanup Method: EPA 3665A
Cleanup Date: 06/12/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/14/21 09:57
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 06/11/21 20:01
Cleanup Method: EPA 3665A
Cleanup Date: 06/12/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/12/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02-04,08 Batch: WG1511146-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
Aroclor 1260	0.071	JP	ug/l	0.071	0.061	B
PCBs, Total	0.071	J	ug/l	0.071	0.061	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/14/21 11:38
Analyst: JM

Extraction Method: EPA 3510C
Extraction Date: 06/13/21 21:40
Cleanup Method: EPA 3665A
Cleanup Date: 06/14/21
Cleanup Method: EPA 3660B
Cleanup Date: 06/14/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,07 Batch: WG1511469-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	83		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02-04,08 Batch: WG1511146-2 WG1511146-3									
Aroclor 1016	83		78		40-140	6		50	A
Aroclor 1260	76		72		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		84		30-150	A
Decachlorobiphenyl	53		69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		90		30-150	B
Decachlorobiphenyl	68		90		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2130572

Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,07 Batch: WG1511469-2 WG1511469-3									
Aroclor 1016	77		73		40-140	5		50	A
Aroclor 1260	74		68		40-140	8		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		88		30-150	A
Decachlorobiphenyl	67		73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		90		30-150	B
Decachlorobiphenyl	77		82		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2130572

Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,07 QC Batch ID: WG1511469-4 WG1511469-5 QC Sample: L2130572-01 Client ID: MW-1													
Aroclor 1016	ND	1.78	1.11	62		1.06	59		40-140	5		50	A
Aroclor 1260	ND	1.78	1.06	59		1.13	63		40-140	6		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		56		30-150	A
Decachlorobiphenyl	59		57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		57		30-150	B
Decachlorobiphenyl	64		60		30-150	B

PESTICIDES

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-01
Client ID: MW-1
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 06/15/21 09:30
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 20:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-01 Date Collected: 06/07/21 11:50

Client ID: MW-1 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-02
Client ID: MW-2
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 06/15/21 10:03
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 20:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	0.006	J	ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-02 Date Collected: 06/07/21 10:00

Client ID: MW-2 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	32		30-150	A
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	39		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-03
Client ID: MW-3
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 06/15/21 10:14
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 20:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-03 Date Collected: 06/07/21 10:00

Client ID: MW-3 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	32		30-150	A
Decachlorobiphenyl	**21**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	30		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-04
Client ID: MW-4
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 12:10
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 06/15/21 10:25
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 20:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-04 Date Collected: 06/07/21 12:10

Client ID: MW-4 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	36		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	43		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-07
Client ID: FIELD BLANK
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 06/15/21 10:36
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 20:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-07 Date Collected: 06/07/21 11:00

Client ID: FIELD BLANK Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-08
Client ID: DUP
Sample Location: 140 STEWART AVE, BROOKLYN, NY

Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 06/15/21 10:47
Analyst: SDC

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 20:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-08 Date Collected: 06/07/21 11:50

Client ID: DUP Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	38		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		30-150	B
Decachlorobiphenyl	44		30-150	B

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/15/21 08:57
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 20:08

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04,07-08 Batch: WG1511980-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/15/21 08:57
Analyst: AR

Extraction Method: EPA 3510C
Extraction Date: 06/14/21 20:08

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04,07-08 Batch: WG1511980-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	55		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04,07-08 Batch: WG1511980-2 WG1511980-3									
Delta-BHC	62		57		30-150	7		20	A
Lindane	64		64		30-150	1		20	A
Alpha-BHC	63		60		30-150	5		20	A
Beta-BHC	63		65		30-150	3		20	A
Heptachlor	60		55		30-150	9		20	A
Aldrin	58		54		30-150	7		20	A
Heptachlor epoxide	59		55		30-150	6		20	A
Endrin	60		56		30-150	7		20	A
Endrin aldehyde	61		59		30-150	4		20	A
Endrin ketone	64		59		30-150	10		20	A
Dieldrin	62		58		30-150	7		20	A
4,4'-DDE	59		57		30-150	4		20	A
4,4'-DDD	65		61		30-150	7		20	A
4,4'-DDT	69		61		30-150	12		20	A
Endosulfan I	57		55		30-150	4		20	A
Endosulfan II	61		56		30-150	9		20	A
Endosulfan sulfate	62		57		30-150	9		20	A
Methoxychlor	62		61		30-150	3		20	A
cis-Chlordane	58		54		30-150	7		20	A
trans-Chlordane	63		61		30-150	4		20	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04,07-08 Batch: WG1511980-2 WG1511980-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		57		30-150	A
Decachlorobiphenyl	58		52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		59		30-150	B
Decachlorobiphenyl	66		61		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04,07-08 QC Batch ID: WG1511980-4 WG1511980-5 QC Sample: L2130572-01 Client ID: MW-1													
Delta-BHC	ND	0.357	0.132	37		0.193	54		30-150	**38**	Q	30	A
Lindane	ND	0.357	0.078	**22**	Q	0.210	59		30-150	**92**	Q	30	A
Alpha-BHC	ND	0.357	0.055	**15**	Q	0.220	62		30-150	**120**	Q	30	A
Beta-BHC	ND	0.357	0.126	35		0.160	45		30-150	24		30	A
Heptachlor	ND	0.357	0.071	**20**	Q	0.202	57		30-150	**96**	Q	30	A
Aldrin	ND	0.357	0.085	**24**	Q	0.194	54		30-150	**78**	Q	30	A
Heptachlor epoxide	ND	0.357	0.111	31		0.196	55		30-150	**55**	Q	30	A
Endrin	ND	0.357	0.144	40		0.213	60		30-150	**39**	Q	30	A
Endrin aldehyde	ND	0.357	0.105	**29**	Q	0.188	53		30-150	**57**	Q	30	A
Endrin ketone	ND	0.357	0.137	38		0.238	67		30-150	**54**	Q	30	A
Dieldrin	ND	0.357	0.131	37		0.201	56		30-150	**42**	Q	30	A
4,4'-DDE	ND	0.357	0.123	34		0.185	52		30-150	**40**	Q	30	A
4,4'-DDD	ND	0.357	0.153	43		0.222	62		30-150	**37**	Q	30	A
4,4'-DDT	ND	0.357	0.150	42		0.205	57		30-150	**31**	Q	30	A
Endosulfan I	ND	0.357	0.124	35		0.216	60		30-150	**54**	Q	30	A
Endosulfan II	ND	0.357	0.138	39		0.222	62		30-150	**47**	Q	30	A
Endosulfan sulfate	ND	0.357	0.133	37		0.182	51		30-150	**31**	Q	30	A
Methoxychlor	ND	0.357	0.175	49		0.216	60		30-150	21		30	A
cis-Chlordane	ND	0.357	0.123	34		0.194	54		30-150	**45**	Q	30	A
trans-Chlordane	ND	0.357	0.133P	37		0.213IP	60		30-150	**46**	Q	30	A

Matrix Spike Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2130572

Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04,07-08 QC Batch ID: WG1511980-4 WG1511980-5 QC Sample: L2130572-01 Client ID: MW-1												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**12**	Q	56		30-150	A
Decachlorobiphenyl	32		41		30-150	A
2,4,5,6-Tetrachloro-m-xylene	**9**	Q	59		30-150	B
Decachlorobiphenyl	36		62		30-150	B

METALS

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-01
Client ID: MW-1
Sample Location: 140 STEWART AVE, BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1.60		mg/l	0.0100	0.00327	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Antimony, Total	0.00321	J	mg/l	0.00400	0.00042	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Arsenic, Total	0.03818		mg/l	0.00050	0.00016	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Barium, Total	0.6114		mg/l	0.00050	0.00017	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Beryllium, Total	0.00012	J	mg/l	0.00050	0.00010	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00104		mg/l	0.00020	0.00005	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Calcium, Total	162.		mg/l	0.100	0.0394	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Chromium, Total	0.02676		mg/l	0.00100	0.00017	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Cobalt, Total	0.00243		mg/l	0.00050	0.00016	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Copper, Total	0.1500		mg/l	0.00100	0.00038	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Iron, Total	18.2		mg/l	0.0500	0.0191	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Lead, Total	0.4301		mg/l	0.00100	0.00034	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Magnesium, Total	20.1		mg/l	0.0700	0.0242	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Manganese, Total	0.4989		mg/l	0.00100	0.00044	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Mercury, Total	0.00237		mg/l	0.00020	0.00009	1	06/12/21 12:44	06/12/21 17:36	EPA 7470A	1,7470A	NB
Nickel, Total	0.00814		mg/l	0.00200	0.00055	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Potassium, Total	29.5		mg/l	0.100	0.0309	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Silver, Total	0.00042		mg/l	0.00040	0.00016	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Sodium, Total	78.5		mg/l	0.100	0.0293	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Thallium, Total	0.00028	J	mg/l	0.00100	0.00014	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Vanadium, Total	0.00568		mg/l	0.00500	0.00157	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Zinc, Total	0.5486		mg/l	0.01000	0.00341	1	06/12/21 10:18	06/15/21 11:52	EPA 3005A	1,6020B	CD
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00347	J	mg/l	0.0100	0.00327	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Antimony, Dissolved	0.00259	J	mg/l	0.00400	0.00042	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Arsenic, Dissolved	0.00716		mg/l	0.00050	0.00016	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Barium, Dissolved	0.3230		mg/l	0.00050	0.00017	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-01
Client ID: MW-1
Sample Location: 140 STEWART AVE, BROOKLYN, NY
Sample Depth:
Matrix: Water
Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Calcium, Dissolved	153.		mg/l	0.100	0.0394	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Chromium, Dissolved	0.00065	J	mg/l	0.00100	0.00017	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Cobalt, Dissolved	0.00078		mg/l	0.00050	0.00016	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Iron, Dissolved	0.207		mg/l	0.0500	0.0191	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Magnesium, Dissolved	19.9		mg/l	0.0700	0.0242	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Manganese, Dissolved	0.4327		mg/l	0.00100	0.00044	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/12/21 17:10	06/15/21 10:50	EPA 7470A	1,7470A	OU
Nickel, Dissolved	0.00329		mg/l	0.00200	0.00055	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Potassium, Dissolved	29.2		mg/l	0.100	0.0309	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Sodium, Dissolved	81.0		mg/l	0.100	0.0293	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	06/12/21 16:37	06/15/21 10:44	EPA 3005A	1,6020B	CD

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-02
Client ID: MW-2
Sample Location: 140 STEWART AVE, BROOKLYN, NY
Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2.29		mg/l	0.0100	0.00327	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Antimony, Total	0.00264	J	mg/l	0.00400	0.00042	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Arsenic, Total	0.00401		mg/l	0.00050	0.00016	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Barium, Total	0.1018		mg/l	0.00050	0.00017	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Beryllium, Total	0.00013	J	mg/l	0.00050	0.00010	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00043		mg/l	0.00020	0.00005	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Calcium, Total	55.1		mg/l	0.100	0.0394	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Chromium, Total	0.01745		mg/l	0.00100	0.00017	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Cobalt, Total	0.00206		mg/l	0.00050	0.00016	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Copper, Total	0.1775		mg/l	0.00100	0.00038	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Iron, Total	8.93		mg/l	0.0500	0.0191	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Lead, Total	0.1513		mg/l	0.00100	0.00034	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Magnesium, Total	4.37		mg/l	0.0700	0.0242	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Manganese, Total	0.2019		mg/l	0.00100	0.00044	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Mercury, Total	0.00062		mg/l	0.00020	0.00009	1	06/12/21 12:44	06/12/21 17:53	EPA 7470A	1,7470A	NB
Nickel, Total	0.00501		mg/l	0.00200	0.00055	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Potassium, Total	11.4		mg/l	0.100	0.0309	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Sodium, Total	18.8		mg/l	0.100	0.0293	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Vanadium, Total	0.00454	J	mg/l	0.00500	0.00157	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Zinc, Total	0.1492		mg/l	0.01000	0.00341	1	06/12/21 10:18	06/15/21 12:56	EPA 3005A	1,6020B	CD
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00641	J	mg/l	0.0100	0.00327	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Antimony, Dissolved	0.00231	J	mg/l	0.00400	0.00042	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Arsenic, Dissolved	0.00111		mg/l	0.00050	0.00016	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Barium, Dissolved	0.01594		mg/l	0.00050	0.00017	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-02
Client ID: MW-2
Sample Location: 140 STEWART AVE, BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Calcium, Dissolved	49.3		mg/l	0.100	0.0394	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Cobalt, Dissolved	0.00022	J	mg/l	0.00050	0.00016	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Copper, Dissolved	0.00046	J	mg/l	0.00100	0.00038	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Iron, Dissolved	0.0375	J	mg/l	0.0500	0.0191	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Magnesium, Dissolved	3.40		mg/l	0.0700	0.0242	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Manganese, Dissolved	0.1011		mg/l	0.00100	0.00044	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/12/21 17:10	06/15/21 11:06	EPA 7470A	1,7470A	OU
Nickel, Dissolved	0.00116	J	mg/l	0.00200	0.00055	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Potassium, Dissolved	10.4		mg/l	0.100	0.0309	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Sodium, Dissolved	17.8		mg/l	0.100	0.0293	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	06/12/21 16:37	06/15/21 10:49	EPA 3005A	1,6020B	CD

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-03
Client ID: MW-3
Sample Location: 140 STEWART AVE, BROOKLYN, NY
Sample Depth:
Matrix: Water
Date Collected: 06/07/21 10:00
Date Received: 06/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	19.0		mg/l	0.0100	0.00327	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Antimony, Total	0.00334	J	mg/l	0.00400	0.00042	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Arsenic, Total	0.01148		mg/l	0.00050	0.00016	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Barium, Total	0.2639		mg/l	0.00050	0.00017	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Beryllium, Total	0.00119		mg/l	0.00050	0.00010	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00055		mg/l	0.00020	0.00005	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Calcium, Total	35.9		mg/l	0.100	0.0394	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Chromium, Total	0.07791		mg/l	0.00100	0.00017	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Cobalt, Total	0.00914		mg/l	0.00050	0.00016	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Copper, Total	0.1104		mg/l	0.00100	0.00038	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Iron, Total	23.2		mg/l	0.0500	0.0191	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Lead, Total	0.4572		mg/l	0.00100	0.00034	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Magnesium, Total	8.32		mg/l	0.0700	0.0242	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Manganese, Total	0.3438		mg/l	0.00100	0.00044	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Mercury, Total	0.00142		mg/l	0.00020	0.00009	1	06/12/21 12:44	06/12/21 17:56	EPA 7470A	1,7470A	NB
Nickel, Total	0.03459		mg/l	0.00200	0.00055	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Potassium, Total	18.1		mg/l	0.100	0.0309	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Selenium, Total	0.00245	J	mg/l	0.00500	0.00173	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Silver, Total	0.00032	J	mg/l	0.00040	0.00016	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Sodium, Total	376.		mg/l	0.100	0.0293	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Thallium, Total	0.00014	J	mg/l	0.00100	0.00014	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Vanadium, Total	0.07458		mg/l	0.00500	0.00157	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Zinc, Total	0.2933		mg/l	0.01000	0.00341	1	06/12/21 10:18	06/15/21 13:01	EPA 3005A	1,6020B	CD
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	1.16		mg/l	0.0100	0.00327	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Antimony, Dissolved	0.00401		mg/l	0.00400	0.00042	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Arsenic, Dissolved	0.00733		mg/l	0.00050	0.00016	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Barium, Dissolved	0.06462		mg/l	0.00050	0.00017	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Beryllium, Dissolved	0.00024	J	mg/l	0.00050	0.00010	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-03 Date Collected: 06/07/21 10:00

Client ID: MW-3 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	0.00010	J	mg/l	0.00020	0.00005	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Calcium, Dissolved	32.3		mg/l	0.100	0.0394	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Chromium, Dissolved	0.00822		mg/l	0.00100	0.00017	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Cobalt, Dissolved	0.00114		mg/l	0.00050	0.00016	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Copper, Dissolved	0.00629		mg/l	0.00100	0.00038	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Iron, Dissolved	1.50		mg/l	0.0500	0.0191	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Lead, Dissolved	0.04686		mg/l	0.00100	0.00034	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Magnesium, Dissolved	6.09		mg/l	0.0700	0.0242	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Manganese, Dissolved	0.05944		mg/l	0.00100	0.00044	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/12/21 17:10	06/15/21 11:10	EPA 7470A	1,7470A	OU
Nickel, Dissolved	0.00891		mg/l	0.00200	0.00055	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Potassium, Dissolved	16.9		mg/l	0.100	0.0309	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Sodium, Dissolved	338.		mg/l	0.100	0.0293	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Vanadium, Dissolved	0.02510		mg/l	0.00500	0.00157	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD
Zinc, Dissolved	0.01966		mg/l	0.01000	0.00341	1	06/12/21 16:37	06/15/21 10:54	EPA 3005A	1,6020B	CD

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-04
Client ID: MW-4
Sample Location: 140 STEWART AVE, BROOKLYN, NY
Sample Depth:
Matrix: Water
Date Collected: 06/07/21 12:10
Date Received: 06/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.185		mg/l	0.0100	0.00327	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Antimony, Total	0.00727		mg/l	0.00400	0.00042	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Arsenic, Total	0.00463		mg/l	0.00050	0.00016	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Barium, Total	0.1661		mg/l	0.00050	0.00017	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00028		mg/l	0.00020	0.00005	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Calcium, Total	177.		mg/l	0.100	0.0394	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Chromium, Total	0.00127		mg/l	0.00100	0.00017	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Cobalt, Total	0.00034	J	mg/l	0.00050	0.00016	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Copper, Total	0.00768		mg/l	0.00100	0.00038	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Iron, Total	7.50		mg/l	0.0500	0.0191	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Lead, Total	0.08525		mg/l	0.00100	0.00034	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Magnesium, Total	13.1		mg/l	0.0700	0.0242	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Manganese, Total	1.276		mg/l	0.00100	0.00044	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Mercury, Total	0.00029		mg/l	0.00020	0.00009	1	06/12/21 12:44	06/12/21 18:00	EPA 7470A	1,7470A	NB
Nickel, Total	0.00097	J	mg/l	0.00200	0.00055	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Potassium, Total	8.48		mg/l	0.100	0.0309	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Sodium, Total	144.		mg/l	0.100	0.0293	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Zinc, Total	0.04425		mg/l	0.01000	0.00341	1	06/12/21 10:18	06/15/21 13:06	EPA 3005A	1,6020B	CD
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Antimony, Dissolved	0.00465		mg/l	0.00400	0.00042	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Arsenic, Dissolved	0.00117		mg/l	0.00050	0.00016	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Barium, Dissolved	0.1215		mg/l	0.00050	0.00017	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-04 Date Collected: 06/07/21 12:10

Client ID: MW-4 Date Received: 06/08/21

Sample Location: 140 STEWART AVE, BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Calcium, Dissolved	182.		mg/l	0.100	0.0394	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Cobalt, Dissolved	0.00023	J	mg/l	0.00050	0.00016	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Iron, Dissolved	0.0393	J	mg/l	0.0500	0.0191	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Magnesium, Dissolved	12.7		mg/l	0.0700	0.0242	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Manganese, Dissolved	1.241		mg/l	0.00100	0.00044	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/12/21 17:10	06/15/21 11:13	EPA 7470A	1,7470A	OU
Nickel, Dissolved	0.00064	J	mg/l	0.00200	0.00055	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Potassium, Dissolved	8.28		mg/l	0.100	0.0309	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Sodium, Dissolved	138.		mg/l	0.100	0.0293	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	06/12/21 16:37	06/15/21 10:59	EPA 3005A	1,6020B	CD

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-07
Client ID: FIELD BLANK
Sample Location: 140 STEWART AVE, BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/07/21 11:00
Date Received: 06/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Barium, Total	0.00025	J	mg/l	0.00050	0.00017	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Calcium, Total	0.0569	J	mg/l	0.100	0.0394	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Copper, Total	ND		mg/l	0.00100	0.00038	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Iron, Total	ND		mg/l	0.0500	0.0191	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Manganese, Total	ND		mg/l	0.00100	0.00044	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Mercury, Total	ND		mg/l	0.00020	0.00009	1	06/12/21 12:44	06/12/21 18:03	EPA 7470A	1,7470A	NB
Nickel, Total	ND		mg/l	0.00200	0.00055	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Potassium, Total	ND		mg/l	0.100	0.0309	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Sodium, Total	0.294		mg/l	0.100	0.0293	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Zinc, Total	ND		mg/l	0.01000	0.00341	1	06/12/21 10:18	06/15/21 12:51	EPA 3005A	1,6020B	CD
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Barium, Dissolved	0.00027	J	mg/l	0.00050	0.00017	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-07
Client ID: FIELD BLANK
Sample Location: 140 STEWART AVE, BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/07/21 11:00
Date Received: 06/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Calcium, Dissolved	0.0826	J	mg/l	0.100	0.0394	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/12/21 17:10	06/15/21 11:16	EPA 7470A	1,7470A	OU
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Sodium, Dissolved	0.337		mg/l	0.100	0.0293	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	06/12/21 16:37	06/15/21 11:22	EPA 3005A	1,6020B	CD

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-08
Client ID: DUP
Sample Location: 140 STEWART AVE, BROOKLYN, NY
Sample Depth:
Matrix: Water
Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.470		mg/l	0.0100	0.00327	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Antimony, Total	0.00064	J	mg/l	0.00400	0.00042	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Arsenic, Total	0.02095		mg/l	0.00050	0.00016	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Barium, Total	0.5168		mg/l	0.00050	0.00017	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Cadmium, Total	0.00035		mg/l	0.00020	0.00005	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Calcium, Total	151.		mg/l	0.100	0.0394	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Chromium, Total	0.00760		mg/l	0.00100	0.00017	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Cobalt, Total	0.00096		mg/l	0.00050	0.00016	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Copper, Total	0.04722		mg/l	0.00100	0.00038	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Iron, Total	12.3		mg/l	0.0500	0.0191	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Lead, Total	0.1478		mg/l	0.00100	0.00034	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Magnesium, Total	19.2		mg/l	0.0700	0.0242	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Manganese, Total	0.4252		mg/l	0.00100	0.00044	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Mercury, Total	0.00069		mg/l	0.00020	0.00009	1	06/12/21 12:44	06/12/21 18:06	EPA 7470A	1,7470A	NB
Nickel, Total	0.00364		mg/l	0.00200	0.00055	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Potassium, Total	29.4		mg/l	0.100	0.0309	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Sodium, Total	78.9		mg/l	0.100	0.0293	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Zinc, Total	0.1726		mg/l	0.01000	0.00341	1	06/12/21 10:18	06/15/21 13:11	EPA 3005A	1,6020B	CD
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Antimony, Dissolved	0.00104	J	mg/l	0.00400	0.00042	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Arsenic, Dissolved	0.00586		mg/l	0.00050	0.00016	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Barium, Dissolved	0.3102		mg/l	0.00050	0.00017	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

SAMPLE RESULTS

Lab ID: L2130572-08
Client ID: DUP
Sample Location: 140 STEWART AVE, BROOKLYN, NY
Sample Depth:
Matrix: Water

Date Collected: 06/07/21 11:50
Date Received: 06/08/21
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Calcium, Dissolved	145.		mg/l	0.100	0.0394	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Chromium, Dissolved	0.00057	J	mg/l	0.00100	0.00017	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Cobalt, Dissolved	0.00051		mg/l	0.00050	0.00016	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Iron, Dissolved	0.0964		mg/l	0.0500	0.0191	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Magnesium, Dissolved	18.7		mg/l	0.0700	0.0242	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Manganese, Dissolved	0.4110		mg/l	0.00100	0.00044	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/12/21 17:10	06/15/21 11:20	EPA 7470A	1,7470A	OU
Nickel, Dissolved	0.00251		mg/l	0.00200	0.00055	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Potassium, Dissolved	28.5		mg/l	0.100	0.0309	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Sodium, Dissolved	77.1		mg/l	0.100	0.0293	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	06/12/21 16:37	06/15/21 11:57	EPA 3005A	1,6020B	CD

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04,07-08 Batch: WG1510544-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Antimony, Total	ND		mg/l	0.00400	0.00042	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Barium, Total	ND		mg/l	0.00050	0.00017	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Calcium, Total	ND		mg/l	0.100	0.0394	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Chromium, Total	ND		mg/l	0.00100	0.00017	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Copper, Total	ND		mg/l	0.00100	0.00038	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Iron, Total	ND		mg/l	0.0500	0.0191	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Lead, Total	ND		mg/l	0.00100	0.00034	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Manganese, Total	ND		mg/l	0.00100	0.00044	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Nickel, Total	ND		mg/l	0.00200	0.00055	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Potassium, Total	ND		mg/l	0.100	0.0309	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Sodium, Total	ND		mg/l	0.100	0.0293	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Thallium, Total	ND		mg/l	0.00100	0.00014	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD
Zinc, Total	ND		mg/l	0.01000	0.00341	1	06/12/21 10:18	06/15/21 11:17	1,6020B	CD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-04,07-08 Batch: WG1510885-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Antimony, Dissolved	0.00082	J	mg/l	0.00400	0.00042	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD

Project Name: AVANT GARDNER **Lab Number:** L2130572

Project Number: 17244793 **Report Date:** 06/22/21

Method Blank Analysis
Batch Quality Control

Barium, Dissolved	ND	mg/l	0.00050	0.00017	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Beryllium, Dissolved	ND	mg/l	0.00050	0.00010	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Cadmium, Dissolved	ND	mg/l	0.00020	0.00005	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Calcium, Dissolved	ND	mg/l	0.100	0.0394	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Chromium, Dissolved	ND	mg/l	0.00100	0.00017	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Cobalt, Dissolved	ND	mg/l	0.00050	0.00016	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Copper, Dissolved	ND	mg/l	0.00100	0.00038	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Iron, Dissolved	ND	mg/l	0.0500	0.0191	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Lead, Dissolved	ND	mg/l	0.00100	0.00034	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Magnesium, Dissolved	ND	mg/l	0.0700	0.0242	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Manganese, Dissolved	ND	mg/l	0.00100	0.00044	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Nickel, Dissolved	ND	mg/l	0.00200	0.00055	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Potassium, Dissolved	ND	mg/l	0.100	0.0309	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Selenium, Dissolved	ND	mg/l	0.00500	0.00173	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Silver, Dissolved	ND	mg/l	0.00040	0.00016	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Sodium, Dissolved	ND	mg/l	0.100	0.0293	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Thallium, Dissolved	ND	mg/l	0.00100	0.00014	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Vanadium, Dissolved	ND	mg/l	0.00500	0.00157	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD
Zinc, Dissolved	ND	mg/l	0.01000	0.00341	1	06/12/21 16:37	06/15/21 10:13	1,6020B	CD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-04,07-08 Batch: WG1510886-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	06/12/21 17:10	06/15/21 10:43	1,7470A	OU

Prep Information

Digestion Method: EPA 7470A

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04,07-08 Batch: WG1511254-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	06/12/21 12:44	06/12/21 17:30	1,7470A	NB

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2130572

Report Date: 06/22/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,07-08 Batch: WG1510544-2								
Aluminum, Total	102		-		80-120	-		
Antimony, Total	84		-		80-120	-		
Arsenic, Total	104		-		80-120	-		
Barium, Total	102		-		80-120	-		
Beryllium, Total	115		-		80-120	-		
Cadmium, Total	106		-		80-120	-		
Calcium, Total	99		-		80-120	-		
Chromium, Total	96		-		80-120	-		
Cobalt, Total	99		-		80-120	-		
Copper, Total	101		-		80-120	-		
Iron, Total	110		-		80-120	-		
Lead, Total	105		-		80-120	-		
Magnesium, Total	108		-		80-120	-		
Manganese, Total	97		-		80-120	-		
Nickel, Total	94		-		80-120	-		
Potassium, Total	103		-		80-120	-		
Selenium, Total	105		-		80-120	-		
Silver, Total	101		-		80-120	-		
Sodium, Total	100		-		80-120	-		
Thallium, Total	104		-		80-120	-		
Vanadium, Total	95		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2130572

Report Date: 06/22/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,07-08 Batch: WG1510544-2					
Zinc, Total	108	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2130572

Report Date: 06/22/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,07-08 Batch: WG1510885-2					
Aluminum, Dissolved	98	-	80-120	-	
Antimony, Dissolved	81	-	80-120	-	
Arsenic, Dissolved	104	-	80-120	-	
Barium, Dissolved	99	-	80-120	-	
Beryllium, Dissolved	105	-	80-120	-	
Cadmium, Dissolved	103	-	80-120	-	
Calcium, Dissolved	101	-	80-120	-	
Chromium, Dissolved	97	-	80-120	-	
Cobalt, Dissolved	99	-	80-120	-	
Copper, Dissolved	99	-	80-120	-	
Iron, Dissolved	107	-	80-120	-	
Lead, Dissolved	104	-	80-120	-	
Magnesium, Dissolved	108	-	80-120	-	
Manganese, Dissolved	97	-	80-120	-	
Nickel, Dissolved	94	-	80-120	-	
Potassium, Dissolved	104	-	80-120	-	
Selenium, Dissolved	107	-	80-120	-	
Silver, Dissolved	100	-	80-120	-	
Sodium, Dissolved	100	-	80-120	-	
Thallium, Dissolved	103	-	80-120	-	
Vanadium, Dissolved	98	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: AVANT GARDNER

Project Number: 17244793

Lab Number: L2130572

Report Date: 06/22/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,07-08 Batch: WG1510885-2					
Zinc, Dissolved	105	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,07-08 Batch: WG1510886-2					
Mercury, Dissolved	95	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-04,07-08 Batch: WG1511254-2					
Mercury, Total	99	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,07-08 QC Batch ID: WG1510544-7 WG1510544-8 QC Sample: L2130572-01 Client ID: MW-1												
Aluminum, Total	1.60	2	3.71	106		3.82	111		75-125	3		20
Antimony, Total	0.00321J	0.5	0.4690	94		0.4854	97		75-125	3		20
Arsenic, Total	0.03818	0.12	0.1616	103		0.1681	108		75-125	4		20
Barium, Total	0.6114	2	2.597	99		2.701	104		75-125	4		20
Beryllium, Total	0.00012J	0.05	0.05500	110		0.05248	105		75-125	5		20
Cadmium, Total	0.00104	0.051	0.05484	105		0.05638	108		75-125	3		20
Calcium, Total	162.	10	168	**60**	Q	171	90		75-125	2		20
Chromium, Total	0.02676	0.2	0.2170	95		0.2218	98		75-125	2		20
Cobalt, Total	0.00243	0.5	0.4909	98		0.5093	101		75-125	4		20
Copper, Total	0.1500	0.25	0.4007	100		0.4194	108		75-125	5		20
Iron, Total	18.2	1	21.0	**280**	Q	21.5	**330**	Q	75-125	2		20
Lead, Total	0.4301	0.51	0.9506	102		0.9752	107		75-125	3		20
Magnesium, Total	20.1	10	32.2	121		33.0	**129**	Q	75-125	2		20
Manganese, Total	0.4989	0.5	1.040	108		1.067	114		75-125	3		20
Nickel, Total	0.00814	0.5	0.4746	93		0.4937	97		75-125	4		20
Potassium, Total	29.5	10	40.0	105		40.4	109		75-125	1		20
Selenium, Total	ND	0.12	0.0555	**46**	Q	0.0590	**49**	Q	75-125	6		20
Silver, Total	0.00042	0.05	0.05070	100		0.05278	105		75-125	4		20
Sodium, Total	78.5	10	87.4	89		88.8	103		75-125	2		20
Thallium, Total	0.00028J	0.12	0.1218	102		0.1268	106		75-125	4		20
Vanadium, Total	0.00568	0.5	0.4705	93		0.4873	96		75-125	4		20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,07-08 QC Batch ID: WG1510544-7 WG1510544-8 QC Sample: L2130572-01 Client ID: MW-1									
Zinc, Total	0.5486	0.5	1.133	117	1.173	125	75-125	3	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,07-08 QC Batch ID: WG1510885-3 WG1510885-4 QC Sample: L2130572-01 Client ID: MW-1										
Aluminum, Dissolved	0.00347J	2	2.00	100		1.94	97	75-125	3	20
Antimony, Dissolved	0.00259J	0.5	0.4337	87		0.4146	83	75-125	5	20
Arsenic, Dissolved	0.00716	0.12	0.1327	105		0.1326	104	75-125	0	20
Barium, Dissolved	0.3230	2	2.330	100		2.316	100	75-125	1	20
Beryllium, Dissolved	ND	0.05	0.05464	109		0.05158	103	75-125	6	20
Cadmium, Dissolved	ND	0.051	0.05379	105		0.05280	104	75-125	2	20
Calcium, Dissolved	153.	10	160	**70**	Q	163	100	75-125	2	20
Chromium, Dissolved	0.00065J	0.2	0.1972	99		0.1924	96	75-125	2	20
Cobalt, Dissolved	0.00078	0.5	0.4915	98		0.4843	97	75-125	1	20
Copper, Dissolved	ND	0.25	0.2456	98		0.2426	97	75-125	1	20
Iron, Dissolved	0.207	1	1.19	98		1.21	100	75-125	2	20
Lead, Dissolved	ND	0.51	0.5360	105		0.5262	103	75-125	2	20
Magnesium, Dissolved	19.9	10	32.3	124		32.1	122	75-125	1	20
Manganese, Dissolved	0.4327	0.5	0.9485	103		0.9395	101	75-125	1	20
Nickel, Dissolved	0.00329	0.5	0.4768	95		0.4709	94	75-125	1	20
Potassium, Dissolved	29.2	10	39.6	104		40.2	110	75-125	2	20
Selenium, Dissolved	ND	0.12	0.128	107		0.126	105	75-125	2	20
Silver, Dissolved	ND	0.05	0.05065	101		0.04949	99	75-125	2	20
Sodium, Dissolved	81.0	10	91.7	107		91.2	102	75-125	1	20
Thallium, Dissolved	ND	0.12	0.1235	103		0.1221	102	75-125	1	20
Vanadium, Dissolved	ND	0.5	0.4977	100		0.4835	97	75-125	3	20

Matrix Spike Analysis
Batch Quality Control

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,07-08 QC Batch ID: WG1510885-3 WG1510885-4 QC Sample: L2130572-01 Client ID: MW-1									
Zinc, Dissolved	ND	0.5	0.5235	105	0.5153	103	75-125	2	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-04,07-08 QC Batch ID: WG1510886-3 WG1510886-4 QC Sample: L2130572-01 Client ID: MW-1									
Mercury, Dissolved	ND	0.005	0.00499	100	0.00490	98	75-125	2	20
Total Metals - Mansfield Lab Associated sample(s): 01-04,07-08 QC Batch ID: WG1511254-3 WG1511254-4 QC Sample: L2130572-01 Client ID: MW-1									
Mercury, Total	0.00237	0.005	0.00688	90	0.00626	78	75-125	9	20

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2130572-01A	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-01A1	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-01A2	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-01B	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-01B1	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-01B2	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-01C	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-01C1	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-01C2	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-01D	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8082-LVI(365)
L2130572-01D1	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2130572-01D2	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2130572-01E	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8082-LVI(365)
L2130572-01E1	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2130572-01E2	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8081(7),NYTCL-8082-LVI(365)
L2130572-01F	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8081(7)
L2130572-01F1	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8081(7)
L2130572-01F2	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8081(7)
L2130572-01G	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8081(7)
L2130572-01G1	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8081(7)
L2130572-01G2	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8081(7)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2130572-01H	Plastic 250ml unpreserved	A	7	7	3.5	Y	Absent		-
L2130572-01H1	Plastic 250ml unpreserved	A	7	7	3.5	Y	Absent		-
L2130572-01H2	Plastic 250ml unpreserved	A	7	7	3.5	Y	Absent		-
L2130572-01I	Plastic 250ml unpreserved	A	7	7	3.5	Y	Absent		-
L2130572-01J	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-01J1	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7),NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-01J2	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7),NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-01K	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-01K1	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7),NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-01K2	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7),NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-01L	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2130572-01L1	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7),NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-01L2	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7),NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-01M	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2130572-01M1	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7),NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-01M2	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7),NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-01N	Plastic 250ml unpreserved	B	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2130572-01N1	Plastic 250ml unpreserved	B	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2130572-01N2	Plastic 250ml unpreserved	B	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2130572-01O	Plastic 250ml unpreserved	B	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2130572-01O1	Plastic 250ml unpreserved	B	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2130572-01O2	Plastic 250ml unpreserved	B	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2130572-01P	Plastic 250ml HNO3 preserved	A	<2	<2	3.5	Y	Absent		TL-6020T(180),BA-6020T(180),SE-6020T(180),FE-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),MG-6020T(180),CD-6020T(180),HG-T(28),AG-6020T(180),AL-6020T(180),CO-6020T(180)
L2130572-01P1	Plastic 250ml HNO3 preserved	A	<2	<2	3.5	Y	Absent		TL-6020T(180),BA-6020T(180),SE-6020T(180),FE-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),MG-6020T(180),CD-6020T(180),HG-T(28),AG-6020T(180),AL-6020T(180),CO-6020T(180)
L2130572-01P2	Plastic 250ml HNO3 preserved	A	<2	<2	3.5	Y	Absent		TL-6020T(180),BA-6020T(180),SE-6020T(180),FE-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),MG-6020T(180),CD-6020T(180),HG-T(28),AG-6020T(180),AL-6020T(180),CO-6020T(180)
L2130572-01X	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.5	Y	Absent		CU-6020S(180),K-6020S(180),V-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),NI-6020S(180),TL-6020S(180),NA-6020S(180),PB-6020S(180),BA-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2130572-01X1	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.5	Y	Absent		CU-6020S(180),K-6020S(180),V-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),NI-6020S(180),TL-6020S(180),NA-6020S(180),PB-6020S(180),BA-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2130572-01X2	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.5	Y	Absent		CU-6020S(180),K-6020S(180),V-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),NI-6020S(180),TL-6020S(180),NA-6020S(180),PB-6020S(180),BA-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2130572-01X3	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.5	Y	Absent		CU-6020S(180),K-6020S(180),V-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),NI-6020S(180),TL-6020S(180),NA-6020S(180),PB-6020S(180),BA-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2130572-02A	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-02B	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-02C	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-02D	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8082-LVI(365)
L2130572-02E	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8082-LVI(365)
L2130572-02F	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8081(7)
L2130572-02G	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8081(7)
L2130572-02H	Plastic 250ml unpreserved	A	7	7	3.5	Y	Absent		-
L2130572-02I	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2130572-02J	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2130572-02K	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-02L	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-02M	Plastic 250ml unpreserved	B	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2130572-02N	Plastic 250ml unpreserved	B	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2130572-02O	Plastic 250ml HNO3 preserved	A	<2	<2	3.5	Y	Absent		SE-6020T(180),BA-6020T(180),TL-6020T(180),FE-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),CD-6020T(180),CO-6020T(180)
L2130572-02X	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.5	Y	Absent		K-6020S(180),SE-6020S(180),CU-6020S(180),V-6020S(180),MN-6020S(180),ZN-6020S(180),BE-6020S(180),MG-6020S(180),CO-6020S(180),CA-6020S(180),FE-6020S(180),CR-6020S(180),PB-6020S(180),NI-6020S(180),BA-6020S(180),NA-6020S(180),TL-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),HG-S(28),AL-6020S(180),CD-6020S(180)
L2130572-03A	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-03B	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-03C	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-03D	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8082-LVI(365)
L2130572-03E	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8082-LVI(365)
L2130572-03F	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8081(7)
L2130572-03G	Amber 120ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8081(7)
L2130572-03H	Plastic 250ml unpreserved	A	7	7	3.5	Y	Absent		-
L2130572-03I	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2130572-03J	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2130572-03K	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-03L	Amber 250ml unpreserved	A	7	7	3.5	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-03M	Plastic 250ml unpreserved	B	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2130572-03N	Plastic 250ml unpreserved	B	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2130572-03O	Plastic 250ml HNO3 preserved	A	<2	<2	3.5	Y	Absent		FE-6020T(180),TL-6020T(180),BA-6020T(180),SE-6020T(180),NI-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),AL-6020T(180),MG-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180),CO-6020T(180)
L2130572-03X	Plastic 120ml HNO3 preserved Filtrates	A	NA		3.5	Y	Absent		K-6020S(180),SE-6020S(180),CU-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),ZN-6020S(180),CO-6020S(180),MG-6020S(180),CA-6020S(180),FE-6020S(180),CR-6020S(180),NA-6020S(180),PB-6020S(180),BA-6020S(180),NI-6020S(180),TL-6020S(180),SB-6020S(180),AG-6020S(180),AS-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2130572-04A	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L2130572-04B	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L2130572-04C	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L2130572-04D	Amber 120ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8082-LVI(365)
L2130572-04E	Amber 120ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8082-LVI(365)
L2130572-04F	Amber 120ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8081(7)
L2130572-04G	Amber 120ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8081(7)
L2130572-04H	Plastic 250ml unpreserved	C	7	7	4.0	Y	Absent		-
L2130572-04I	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2130572-04J	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2130572-04K	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-04L	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-04M	Plastic 250ml unpreserved	B	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2130572-04N	Plastic 250ml unpreserved	B	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2130572-04O	Plastic 250ml HNO3 preserved	C	<2	<2	4.0	Y	Absent		FE-6020T(180),BA-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),MG-6020T(180),AL-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),CO-6020T(180)
L2130572-04X	Plastic 120ml HNO3 preserved Filtrates	C	NA		4.0	Y	Absent		CU-6020S(180),K-6020S(180),V-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),ZN-6020S(180),MG-6020S(180),CO-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),NA-6020S(180),BA-6020S(180),TL-6020S(180),NI-6020S(180),PB-6020S(180),AS-6020S(180),SB-6020S(180),AG-6020S(180),CD-6020S(180),AL-6020S(180),HG-S(28)
L2130572-05A	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L2130572-05B	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L2130572-05C	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L2130572-05D	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-05E	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-06A	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L2130572-06B	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L2130572-06C	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L2130572-06D	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-06E	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-07A	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L2130572-07B	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L2130572-07C	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L2130572-07D	Amber 120ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8082-LVI(365)
L2130572-07E	Amber 120ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8082-LVI(365)
L2130572-07F	Amber 120ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8081(7)
L2130572-07G	Amber 120ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8081(7)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2130572-07H	Plastic 250ml unpreserved	C	7	7	4.0	Y	Absent		-
L2130572-07I	Plastic 250ml unpreserved	C	7	7	4.0	Y	Absent		-
L2130572-07J	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2130572-07K	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2130572-07L	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-07M	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-07N	Plastic 250ml unpreserved	B	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2130572-07P	Plastic 250ml HNO3 preserved	C	<2	<2	4.0	Y	Absent		FE-6020T(180),SE-6020T(180),BA-6020T(180),TL-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),MG-6020T(180),CD-6020T(180),HG-T(28),AL-6020T(180),CO-6020T(180)
L2130572-07X	Plastic 120ml HNO3 preserved Filtrates	C	NA		4.0	Y	Absent		V-6020S(180),CU-6020S(180),K-6020S(180),SE-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CR-6020S(180),FE-6020S(180),CA-6020S(180),PB-6020S(180),BA-6020S(180),NI-6020S(180),NA-6020S(180),TL-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),CD-6020S(180),AL-6020S(180),HG-S(28)
L2130572-08A	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L2130572-08B	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L2130572-08C	Vial HCl preserved	C	NA		4.0	Y	Absent		NYTCL-8260(14)
L2130572-08D	Amber 120ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8082-LVI(365)
L2130572-08E	Amber 120ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8082-LVI(365)
L2130572-08F	Amber 120ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8081(7)
L2130572-08G	Amber 120ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8081(7)
L2130572-08H	Plastic 250ml unpreserved	C	7	7	4.0	Y	Absent		-
L2130572-08I	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2130572-08J	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2130572-08K	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793

Lab Number: L2130572
Report Date: 06/22/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2130572-08L	Amber 250ml unpreserved	C	7	7	4.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2130572-08M	Plastic 250ml unpreserved	B	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2130572-08N	Plastic 250ml unpreserved	B	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L2130572-08O	Plastic 250ml HNO3 preserved	C	<2	<2	4.0	Y	Absent		TL-6020T(180),BA-6020T(180),SE-6020T(180),FE-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),CD-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2130572-08X	Plastic 120ml HNO3 preserved Filtrates	C	NA		4.0	Y	Absent		SE-6020S(180),K-6020S(180),CU-6020S(180),V-6020S(180),MN-6020S(180),ZN-6020S(180),CO-6020S(180),BE-6020S(180),MG-6020S(180),CA-6020S(180),FE-6020S(180),CR-6020S(180),TL-6020S(180),NA-6020S(180),PB-6020S(180),NI-6020S(180),BA-6020S(180),AS-6020S(180),SB-6020S(180),AG-6020S(180),CD-6020S(180),AL-6020S(180),HG-S(28)
L2130572-09A	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2130572-09B	Vial HCl preserved	A	NA		3.5	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: AVANT GARDNER
Project Number: 17244793
Lab Number: L2130572
Report Date: 06/22/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	AVANT GARDNER	**Lab Number:**	L2130572
Project Number:	17244793	**Report Date:**	06/22/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2130572
Project Number:	17244793	**Report Date:**	06/22/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	AVANT GARDNER	**Lab Number:**	L2130572
Project Number:	17244793	**Report Date:**	06/22/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Project Name:	AVANT GARDNER	**Lab Number:**	L2130572
Project Number:	17244793	**Report Date:**	06/22/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 6/8/21

ALPHA Job #: L2130572

Client Information
Client: PSG (Partner)
Address: 611 Industrial Way West
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLENT@partnereng.com

Project Information
Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn, NY
Project # 17243313
(Use Project name as Project #) [X]
Project Manager: David Lent
ALPHAQuote #: ——

Turn-Around Time
Standard [X]
Rush (only if pre approved) [ ]
Due Date:
# of Days:

Deliverables
[ ] ASP-A [ ] ASP-B
[X] EQuIS (1 File) [X] EQuIS (4 File)
[ ] Other

Regulatory Requirement
[X] NY TOGS [ ] NY Part 375
[X] AWQ Standards [X] NY CP-51
[X] NY Restricted Use [ ] Other
[X] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information
[X] Same as Client Info
PO # 17243313

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

~~TAT~~

Please specify Metals or TAL. TAL Filtered & non-Filtered Metals

ANALYSIS

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260	Low Level SVOCs 8270	PCBs	Pesticides	Filtered TAL Metals	Non-Filtered TAL Metals	1,4 Dioxane	PFAs	Sample Specific Comments	Total Bottle
30572-01	MW-1	6-7	1150	GW	AH	X	X	X	X	X	X	X	X		
-02	MW-2	6-7	1000	GW	AH	X	X	X	X	X	X	X	X		
-03	MW-3	6-7	1000	GW	LK	X	X	X	X	X	X	X	X		
-04	MW-4	6-7	1210	GW	LK	X	X	X	X	X	X	X	X		
-05	MW-5	6-7	815	GW	AH	X	X								
-06	MW-6	6-7	820	GW	LK	X	X								
-07	Field Blank	6-7	1100	GW	AH	X	X	X	X	X	X	X	X		
-08	DUP	6-7	1150	GW	AH	X	X	X	X	X	X	X	X		
-01	MS	6-7	1150	GW	AH	X	X	X	X	X	X	X	X		
-01	MSD	6-7	1150	GW	AH	X	X	X	X	X	X	X	X		

Container Type	B	A	A	A	A	A	A	P
Preservative	B	A	A	A	A	C	A	A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6-7-21 1200		
	6/8/21 14:05		6/8/21 08:50
	6/8/21 2250		6/8/21 2250

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 6/8/21

ALPHA Job #: L2130572

Client Information

Client: PSG (partner)
Address: 611 Industrial Way West
Eatontown, NJ 07724
Phone: 732-380-1700
Fax: 732-380-1701
Email: DLente@partnereng.com

Project Information

Project Name: Avant Gardner
Project Location: 140 Stewart Ave, Brooklyn, NY
Project #: 17243313
(Use Project name as Project #) [X]
Project Manager: David Lent
ALPHAQuote #: —

Turn-Around Time

Standard [X]
Rush (only if pre approved) [ ]
Due Date:
# of Days:

Deliverables

[ ] ASP-A [ ] ASP-B
[X] EQuIS (1 File) [X] EQuIS (4 File)
[ ] Other

Regulatory Requirement

[X] NY TOGS [ ] NY Part 375
[X] AWQ Standards [X] NY CP-51
[X] NY Restricted Use [ ] Other
[X] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information

[X] Same as Client Info
PO # 17243313

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

VOCs (8260)

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs (8260)	Sample Specific Comments
30572-04	Trip Blank	6-2	—	GW	—	X	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	V												
Preservative	B												

Relinquished By:	Date/Time	Received By:	Date/Time
	6-7-21 1500		6/8/21 08:50
	6/8/21 14:05		6/8/21 1405
	6/8/21 2250		6/8/21 2250

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Aquifer Drilling & Testing, Inc.
75 E 2nd Street, Mineola, NY 11501
Tel: (800) 238-3745

ADT JOB NO.: 601-21-1101

DAILY JOB & SITE INVESTIGATION REPORT

DAY: Tues
DATE: 5/25/21
JOB LOCATION:
DESCRIPTION OF WORK:

CLIENT: Partner
NYSDEC Steward Ave

DRILLER: Chris Iodice
HELPER(S): Evan
RIG NO.: 6610.211
SUPPORT TRK: UV57/Trailer

Probed 2 ground water samples with SP16
110' and 70'
purged sampled filled + patched
Set 3 temp wells to 30' 20' and 15'

TEST BORING DATA & SITE GEOLOGY

BORING NO.	TOTAL DEPTH	SAMPLES SOIL	SAMPLES H2O	BL CT	DTW	GRAVL/CBLE/BLDER SAND/SILT/CLAY

DRILLING METHOD

HSA / AIR / MUD / SONIC
6610

Footage: 245'
Size: 2¼" / 1½

CORING
Footage
Size

MISCELLANEOUS

Steam Clean (hr)	—
Standby (hr)	—
Stage Soils (hr)	—
Well Develop (hr)	2hr
Borehole Grout (ft)	—
Poly Tubing (ft)	75'
Concrete Cores (no.)	—
Expend. Points (no.)	5
Drums (no.)	0
Sidewalk Permits (no.)	—

TEMPORARY TEST POINTS

WELL NO.	SIZE	SCRN	RISER	DEPTH	SAND	CHIPS	CMT	BENT	SURF(M/S
1	1"	10'	20'	30'	—	—	1	—	—
2	1"	10'	10'	20'					
3	1"	10'	5'	15'					

Arrive Shop@ | Leave Shop@ | Arrive Site @ | Leave Site @ | Arrive Shop @ | Leave Shop @

PERSONNEL	SIGNATURE	AM SHOP	MOBE*	ON SITE	DEMOBE**	PM SHOP	TOTAL
Chris Iodice				8			
Evan				8			

APPROVED: [signature]
CLIENT REPRESENTATIVE

DATE: 5/25/21

PRINT NAME: PETER CERNY

Client's signature approves crews ON SITE hours.

* Indicate if Initial Mobilization

** Indicate if Final Demobilization

White (Client) Yellow (Accounting) Pink (Admin)

Serial_No:06222110:49

APPENDIX G: PROVECTUS PRODUCT SPECIFICATIONS

PSG

Provect-IR® ISCR Reagent

Provect-IR® is a unique mixture of reagents combined into a single product that optimizes the *in situ* reductive dechlorination of chemicals present in soil, sediment, and groundwater. It acts by promoting synergistic interactions between:

- Natural antimethanogenic compounds
- Hydrophilic, nutrient rich organic carbon sources
- Zero-Valent Iron (ZVI)
- Chemical oxygen scavengers
- Vitamin and mineral sources

This distinctive, patented combination of natural and food-grade chemicals promotes *in situ* chemical reduction (ISCR) conditions for fast and effective destruction of targeted constituents of interest (COIs) such as chlorinated solvents, organochlorine pesticides, and other halogenated compounds (Brown *et al.*, 2009; Dolfing *et al.*, 2008; US Patent Office Scalzi *et al* 2012). Notably, Provect-IR® is the only ISCR reagent to simultaneously inhibit the production of methane during the requisite carbon fermentation processes (US Patent Office Scalzi *et al*, 2013, 2014). This promotes more efficient use of the hydrogen donor while avoiding negative issues associated with elevated methane (CH4) in groundwater, soil gas, and indoor air.

Current regulations for methane in groundwater vary from ca. 10 to 28 mg CH4/L (Indiana Department of Environmental Management, 2014). More State regulations are pending, with several enhanced reductive dechlorination (ERD) projects which intended to use liquid carbon (emulsified oils) sources failing to receive regulatory approval due to issues associated with excessive production of methane during previous technology applications (Personal Communication - State of California; State of Minnesota). Many remedial practitioners have subsequently been required to establish contingencies for conventional ERD/ISCR implementation if methane exceeds a threshold level ranging from 1 ppm to 10 ppm groundwater. These contingencies often entail expensive and extensive systems for capturing and treating methane in soil gas/vapor captured via SVE systems.

MODE OF ACTION – HOW DOES IT WORK?

What is a Methanogen? In the 1970s, Dr. Carl Woese (1928 to 2012) and his colleagues at the University of Illinois - Urbana studied prokaryotic relationships using DNA sequences and they found that microbes that produce methane – or methanogens - are Archaea (Woese and Fox, 1977). The identification of this new Domain of microorganism was very important for many reasons, but from our limited perspective herein this vast difference in genetic composition means that methanogens are significantly different from typical heterotrophic bacteria and eukaryotes. In other words, *Dehalococcoides* ethenogenes are as different from methanogens as you are.

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What is a Statin? A statin can be defined as "a class of lipid-lowering drugs that reduce serum cholesterol levels by inhibiting a key enzyme involved in the biosynthesis of cholesterol". Lovastatin is a widely known, potent statin used for decades to lower cholesterol in human blood by inhibiting 3-hydro-3-methylglutaryl-coenzyme A (HMG-CoA) reductase, which is a key enzyme in the cholesterol biosynthesis pathway (Alberts et al., 1980). It was the first statin approved by the United States Food and Drug Administration in 1987 as a hypercholesterolemic drug.

What is Red Yeast (Rice) Extract? The red yeast rice (RYR) extract that is component of Provect-IR® is a substance extracted from rice that has been fermented with a type of yeast called Monascus purpureus. Red yeast extract is used as a food coloring, food additive/preservative, and is widely consumed by humans. The RYR extract contains a number of monacolins - most importantly, Monacolin K, otherwise known as Lovastatin or Mevinolin. Monacolin K is the only naturally occurring statin compound. In addition to Monacolin K, RYR extract also contains mono-unsaturated fatty acids and other vitamins that will effectively stimulate anaerobic bacteria in the subsurface.

So - How Does a Statin Inhibit a Methanogen? Interestingly, Monacolin K is a potent inhibitor of methanogenic archaea because cell membrane production in archaea shares a similar pathway with cholesterol biosynthesis (Miller and Wolin, 2001). And since methanogens are so uniquely different than bacteria, the inhibitory effect is not observed in microbes that are typically associated with: i) catabolism of organic contaminants (such as pseudomonas species) and/or, ii) halo-respiration/biodegradation of chlorinated solvents (such as *Dehalococcoides* species). RYR has been used in the cattle industry for decades in efforts to manage rumen microbiology and control methane production in cows.

ATTENUATION PROCESSES – SAFER, MORE EFFICIENT ISCR TREATMENT

In situ chemical reduction as defined by Dolfing et al (2008) describes the combined effect of stimulated biological oxygen consumption (via fermentation of an organic carbon source), direct chemical reduction with ZVI or other reduced metals. The corresponding enhanced thermodynamic decomposition reactions that are realized at the lowered redox (Eh) conditions allow for more effective mineralization of many COIs.

Several ERD substrates and other accelerated anaerobic bioremediation technologies exist (e.g., emulsified oils, non-emulsified oils, carbon-based hydrogen release compounds, vegetable matter + ZVI amendments) that purportedly offer similar responses. However, the Provect-IR® antimethanogenic ISCR substrate is unique in its ability to yield Eh values most conducive to reductive dechlorination while simultaneously preventing methane production - which is a waste of the H being generated and potentially a safety issue under field conditions.

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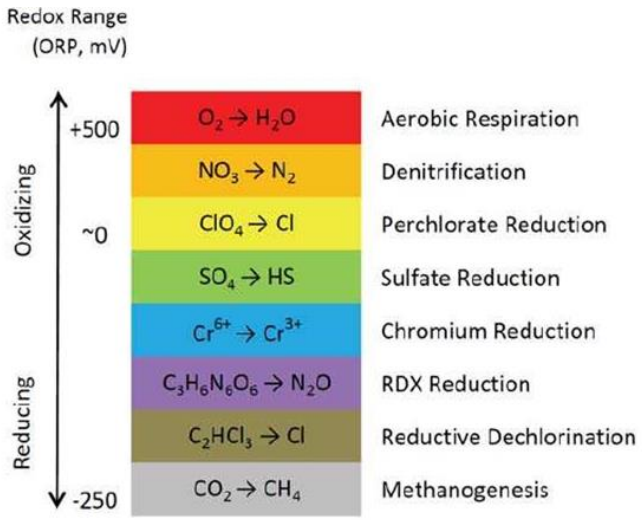

Provect-IR® uniquely combines RYR extract with of a variety of specially selected reagents in order to induce genuine ISCR conditions and facilitate the destruction of targeted COIs in a safer, more efficacious manner. As outlined below, it can be used to manage environments impacted by chlorinated solvents, pesticides, heavy metals and other COIs.

Specially Selected Organic Hydrogen Donors: A variety of hydrophilic, nutrient rich organic carbon sources are incorporated in Provect-IR® that assist in promoting the ISCR process. The Provect-IR bioremediation amendments consist of slow, medium and long-term release carbon sources. Such a formulation is desirable because it provides both a rapidly utilized electron donor (calcium propionate), slow-release long-term electron donors (kelp meal and yeast extract) and long-term release carbon sources (other cellulose and hemi-cellulose carbon such as soy meal). More specifically,

- Calcium propionate and other readily biodegradable carbon sources: Following the addition of simple carbon sources such as lactate, formate, ethanol or glucose to an aquifer setting these compounds are often converted rapidly to hydrogen and acetate. Although this is the desired response, the process is sometimes too rapid, and this can result in aquifer acidification (due to rapid VFA production) and the liberation of too much hydrogen (which allows methanogens and sulfate reducers to compete effectively with dehalogenators, which tend to grow more slowly). Hence, calcium propionate is used as a readily biodegradable carbon source.
- Yeast extract: This supplement provides a variety of organic hydrogen donors that have slower release profiles (i.e., they are not fermented as rapidly as proprionate). Yeast extract also contains biological components that are very useful to anaerobes, but are not available through other carbon-only media. In particular, yeast extract provides an abundant source of priming ATPase along with trace nutrients and vitamin B complexes.

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- Kelp meal/Cellulose based carbon: These hydrogen sources are composed of a hydrophilic, solid and complex carbon that ferment more slowly and inherently generate less methane. The hydrophilic organic component of the kelp meal, for example, is composed of cellulose and hemicellulose and it may be treated during the manufacturing process so that some of the components more easily undergo hydrolysis to glucose while maintaining an overall longevity of 3 to 5+ years.

Chemical Oxygen Scavengers: The presence of chemical oxygen scavengers such as sodium sulfite helps minimize performance lag phases that are often observed following the injection of remedial amendments. This is due, in part, to the presence of oxygen that is introduced as a result of the field mixing and blending operations. It takes a certain amount of time and reagent consumption to remove that introduced oxygen and allow the ISCR reactions to proceed. Provect-IR is unique it that manages this impact chemically, which is a more effective, reliable manner thus allowing the ISCR process to be more effective.

Zero-Valent Iron: The presence of ZVI in Provect-IR® is critical to ISCR reactions. The ZVI is added as a reduced material that is oxidized during the reductive dechlorination reactions which use ZVI as the reducing agent. The beta-elimination reaction mainly produces (chloro)acetylene, ethane/ethane and chloride ions, without the accumulation of potentially problematic catabolites typical of microbiologically mediated sequential reductive dehalogenation processes (e.g., DCE "stall"). As the ZVI reacts, hydroxyl ions are released and pH increases which is useful in neutralizing the acidity generated during the fermentation of carbon, where acids are generated. Oxidized iron species are also produced, where are useful in alpha-elimination reactions and iron cycling. One limitation to ZVI reactions is that they are surface mediated which means that direct contact is required for direct COI destruction.

RYR Extract: Provect-IR® is the only ISCR amendment that will rapidly induce ISCR conditions while simultaneously preventing or significantly minimizing the production of methane. The benefits are notable:

- Safer: Methane is explosive with an LEL of 5% and an UEL of 15%. Production of methane will result from the addition of any conventional ERD or ISCR amendment: excessive and extended production of methane can result in elevated in groundwater concentrations (as high as 1,000 ppm have been reported) which can lead to accumulation in soil gas subsequently impacting indoor air. State specific regulations for methane in groundwater have been promulgated, with others pending for soil gas and indoor air.
- More Efficient = More Cost Effective: Production of methane is a direct indication that the hydrogen generated from the organic carbon amendments was used by methanogens and the amendment has been wasted because it was not utilized by acetogens or

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dehalorespiration. By inhibiting the growth and proliferation of methane producing Archaea, chlororespiring bacteria can become the more dominant bacterial populations.

PRIMARY FEATURES

- Effective: No accumulation of dead-end catabolic intermediates as a function of substrate addition (as is common with [emulsified] oils and sources of carbon only).
  - Does not rely on physical sorption/sequestration as a major "removal" mechanism (as is common with oils).
  - Inherently buffered for pH control – will not acidify an aquifer and liberate heavy metals as potential secondary COIs.
- Efficient: Significantly lower costs as a result more efficient amendment utilization and avoidance of contingencies for methane management. No need for additional buffers.
- Safe: Fewer health and safety concerns as compared with use of traditional ERD or ISCR reagents; Avoid issues associated with new and emerging methane regulations.
- Ease of Use: Green and sustainable. All components integrated in a single package. Logistics with no surprises.
- Longevity: Engineered profile of carbon sources for multi-year longevity estimated at 3 to 7 years based on site-specific hydrogeology. Reagent will stay in place and remain active which prevents rebound.
- Improved Performance: More efficient use of hydrogen donors (does not get wasted as methane).
- Adaptable Formulations for Heavy Metals: Will not mobilize arsenic or other heavy metals yielding secondary contaminants (as is common with [emulsified] oils and sources of carbon only). Can be formulated to manage environments that are co-impacted by various inorganic contaminants while simultaneously mineralizing the organic compounds.
- Patented Technologies: Technology end users and their clients are fully protected from all Patent and other legal issues

PHYSICAL PROPERTIES

Particle Size: ranges from ca. <5 to >100 micron (can be manufactured to specifications).

Dry Density: ranges from 0.4 to 0.5 g/cm3

29% Aqueous Slurry Density: ranges from 0.9 to 1.0 g/cm3

29% Aqueous Slurry Viscosity: ranges from 500 to 1,500 cP

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VIA EMAIL: dlent@partneresi.com

June 18, 2024

Mr. David R. Lent, PG, LEP
Partner Engineering and Science, Inc.
222 Bloomingdale Road, Suite 303
White Plains, NY 10605
Phone: (914) 222-8011

Subject: **Privileged and Confidential**
Treatment of CVOCs using Provect-IR®
Avant Gardner Site – Brooklyn, New York
Provectus Proposal No. PEP22-0120_REV2

Dear Dave:

Please find herewith a remedial design and material cost estimate for employing Provect-IR® for managing source and dissolved constituents of interest (COIs) at the Avant Gardner Site in Brooklyn, New York. The Provect-IR® amendment is a solid, long-term remedial option that is a combination of biotic and abiotic technologies designed to reduce dissolved phase chlorinated volatile organic compound (CVOC) concentrations. The Provect-IR® amendment uniquely contains antimethanogenic reagents (AMR; methane inhibition) to ensure an effective and safe remedial program.

In developing this proposal, Provectus Environmental Products, Inc. (Provectus) recognizes that we may have received sensitive data and confidential information. We maintained all information in confidence and have not shared site data with any unapproved party. We understand that Partner Engineering and Science, Inc. (Partner) will provide general contractor oversight and consulting services including groundwater verification sampling and required New York State Department of Environmental Conservation (NYSDEC) reporting, permitting, and application submittals. Provectus will provide project-specific technology and design information to develop a Remedial Action Work Plan and obtain any required permits.

We recognize the remedial program goals are to significantly reduce overall saturated zone contaminant mass. Based on this goal and recent correspondence with Partner, we developed a remedial approach for consideration that includes the application of Provect-IR® via excavation placement/soil blending and direct push injection. Our technology background, chemistry, conceptual design, and amendment costs are outlined below.

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PROVECT-IR® TECHNOLOGY BACKGROUND

Provect-IR® is a unique mixture of reagents combined into a single product that optimizes the *in situ* reductive dechlorination of chemicals present in soil, sediment, and groundwater. It acts by promoting synergistic interactions between:

- Natural antimethanogenic compounds (where appropriate)
- Multiple, hydrophilic, nutrient-rich organic carbon sources
- Zero-valent iron (ZVI)
- Chemical oxygen scavengers
- Vitamin and mineral sources

This distinctive, patented combination of natural and food-grade chemicals promotes ISCR conditions for fast and effective destruction of targeted COIs such as chlorinated solvents, organochlorine pesticides, and other halogenated compounds. Notably, Provect-IR® is the only ISCR reagent to simultaneously inhibit the production of methane during the requisite carbon fermentation processes. This promotes more efficient use of the hydrogen donor while avoiding negative issues associated with elevated methane (CH_4) in groundwater, soil gas and indoor air.

PROVECT-IR® MODE OF ACTION

Provect-IR® is a solid material that can be injected into the subsurface environment in a variety of ways, based on site-specific designs. Application methods include direct mixing, hydraulic fracturing, pneumatic fracturing, and injection of slurries or liquids. Direct placement in trenches and excavations are also reliable application methods. Following placement of Provect-IR® into the subsurface environment, a number of physical, chemical and microbiological processes combine to create very strong reducing conditions that stimulate rapid and complete dechlorination of organic solvents and other recalcitrant compounds. First, the organic components (fibrous land-based plants and marine plants) are nutrient rich, hydrophilic compounds with high surface area that provide ideal support for growth of bacteria in the groundwater environment. As they grow on Provect-IR® particle surfaces, indigenous bacteria consume dissolved oxygen thereby reducing the redox potential in groundwater. In addition, as the bacteria grow on the organic particles, they ferment carbon and release a variety of volatile fatty acids (acetic, propionic, butyric) which diffuse from the site of fermentation into the groundwater plume and serve as electron donors for other bacteria, including dehalogenators and halorespiring species. Finally, the ZVI particles provide substantial reactive surface area that stimulates direct chemical dechlorination and an additional drop in the redox potential of the groundwater via chemical oxygen scavenging.

These physical, chemical and biological processes combine to create an extremely reduced environment that stimulates chemical and microbiological dechlorination of otherwise persistent compounds. Redox potentials as low as –550 mV are commonly observed in groundwater

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under ISCR conditions. At these Eh levels, many organic COIs are thermodynamically unstable, and they will readily degrade via pathways more typical of physical destruction processes (minimum production and no accumulation of typically recognized biodegradation intermediates such as DCE). Hence, the ISCR technology is microbiologically based as it relies on indigenous microbes to biodegrade the Provect-IR® carbon (refined plant, kelp and/or seaweed materials), and does not require the presence or activity of special or otherwise unique bacteria for complete and effective remediation.

MODE OF ACTION – ISCR FOR CVOCs

It is critical to understand that the processes of COI destruction under ISCR conditions are different from the typical pathways. With traditional remedial technologies, the primary COIs will follow reductive dehalogenation reactions that occur under normal anaerobic conditions (**Figure 1**). Under ISCR conditions (Eh <-550 mV), these pathways are avoided, and terminal destruction / mineralization proceeds along recognized *beta*-elimination pathways (**Figure 2**).

Figure 1: PCE /TCE Degradation Schematic – Sequential Reductive Dehalogenation under Typical Anaerobic Conditions.

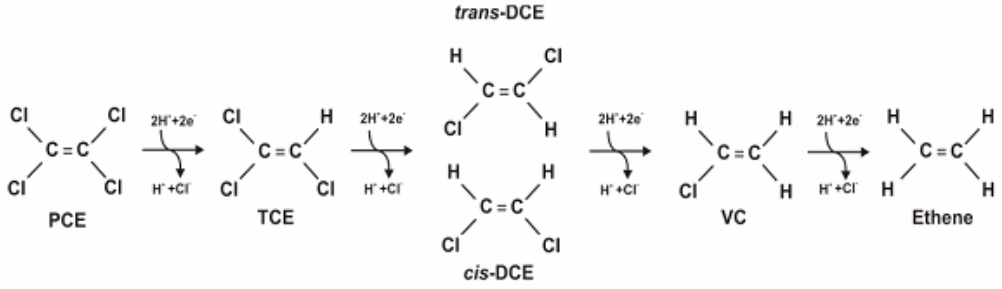
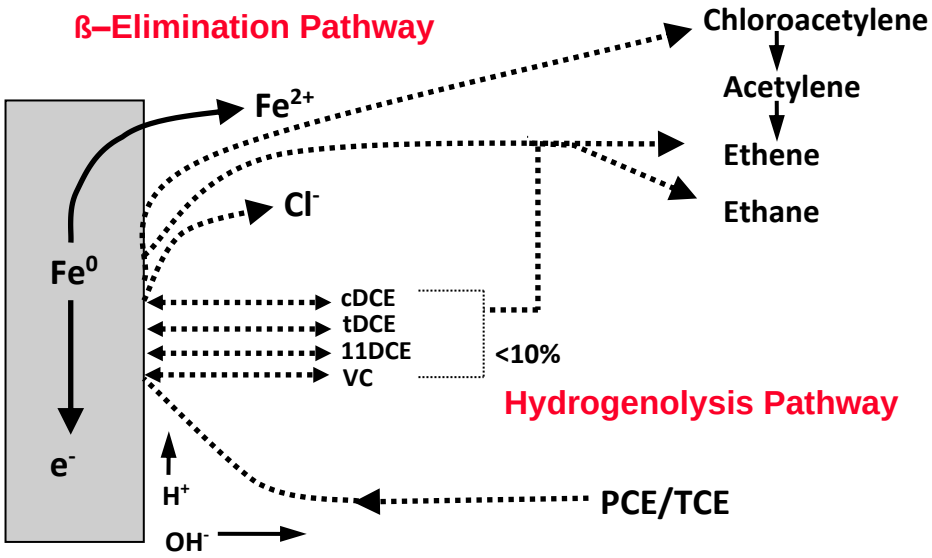


Figure 2: Degradation Reactions for Mineralization under ISCR Conditions.



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ADVANTAGES OF USING PROVECTUS ANTIMETHANOGENIC ISCR TECHNOLOGY

The distinctive combination of reagents in Provect-IR® uniquely yield antimethanogenic conditions, which offer powerful technical advantages over conventional ERD (*e.g.*, [emulsified] oils/lecithin substrates), traditional ISCR reagents, or only ZVI. These include:

- More Efficient: Significantly lower costs as a result of more efficient amendment utilization via controlled methanogenesis = can use at least 30% less organic amendment.
- More Effective: Reactions avoid accumulation of dead-end catabolic intermediates as a function of substrate addition (as is common with [emulsified] oils and sources of carbon only).
    - Does not rely on physical sorption/sequestration as a major "removal" mechanism (as is common with oils).
    - Inherently buffered for pH control – will not acidify an aquifer and liberate heavy metals as potential secondary COIs.
- Safer: Fewer health and safety concerns as compared with use of traditional ERD or ISCR reagents; avoid issues associated with new and emerging methane regulations.
- Ease of Use: Green and sustainable. All components integrated in a single package. Logistics with no surprises. Provect-IR® is easily and quickly injected using conventional construction technologies.
- Longevity: Engineered profile of carbon sources for multi-year longevity estimated at 3 to 7 years based on site-specific hydrogeology.
- Minimizes Rebound: Reagent will stay in place and remain active for an extended period of time which manages and prevents COI rebound.
- Predictable Performance: More efficient use of hydrogen donors (not consumed to create methane).
- Simultaneous Immobilization of Heavy Metals: Will not mobilize or methylate arsenic or other heavy metals yielding secondary plumes (as is common with [emulsified] oils and sources of carbon only).
- Inherent Buffering: Presence of ZVI offers substantial pH buffering capacity.
- Accelerated Site Closure: Provect-IR rapidly removes COI mass via a combination of biogeochemical degradation processes without relying on physical sorption / sequestration as a major "removal" mechanism.
- Range of Applicability: ISCR demonstrated effective on a wide range of COIs, including chlorinated / halogenated solvents, Freon, pesticides, perchlorate and other energetic compounds (explosives).
- Supports Natural Attenuation: For all the reasons summarized above, Provect-IR enhances natural biological processes.
- Patented Technology: Fully covered under numerous patents (7,129,388; 7,531,709; 7,828,974; 8,147,694; 13/785,840; 14/268,629) that indemnify you and your client from patent infringement.

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UNDERSTANDING SITE CONDITIONS AND REMEDIAL GOALS

The project site is located in Brooklyn, New York. Former onsite activities have impacted a portion of the site with chlorinated solvents. Site lithology consists primarily of clayey silt with a peat layer that transitions to coarse sand. Depth to groundwater varies from 8 to 14 feet below ground surface (ft bgs). The aquifer exhibits reducing biogeochemical conditions (i.e., DO <1 ppm; negative ORPs) and is pH neutral. The primary remedial goal is to significantly reduce CVOCs, primarily tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene, (cis-1,2,-DCE), and vinyl chloride (VC) in groundwater and potential sorbed soil concentrations.

REMEDIAL DESIGN AND REAGENT REQUIREMENTS

Based on the site conditions and remedial goals, Provectus recommends that Provect-IR® is utilized to address the chlorinated solvent target areas. The proposed Provect-IR® formula contains 60% zero valent iron and AMRs. The field scope of work includes reagent placement during excavation activities and reagent injection via direct push points to address the plume. There are two areas that will be excavated to an approximate depth of 8 ft bgs. Excavation Area 1 includes the 7-B1 borings (**Figure 3**) with a 37’ x 14’ estimated excavation. Provect-IR® will be applied to the excavation base at 2.0% of soil mass using a 7-ft vertical target interval (e.g., mixing from approx. 8 to 15 ft bgs). A total of 9,100 lbs of Provect-IR® is recommended for Excavation Area 1. Excavation Area 2 includes the 10-B6 borings (**Figure 4**) with a 22’ x 15’ estimated excavation. Using a 2.0% of soil mass reagent demand and a 7-ft vertical target interval (e.g., mixing from approx. 8 to 15 ft bgs) yields a total of 5,800 lbs of Provect-IR® to address Excavation Area 2.

The plume injection program will include a 3,000 sq ft target area (**Figure 5**) with a maximum 110 ft vertical target zone. Specifically, a 500 sq ft area will be addressed from 15 to 110 ft bgs, with the residual plume target zone from 15 to 40 ft bgs. Provect-IR® will be applied at an average of 0.3% of soil mass, which ensures effective reagent distribution while overcoming the reagent demand for contaminant destruction. A total of 38,400 lbs of Provect-IR® is recommended for the plume injection program. Twenty-three direct push injection points are recommended for reagent application with six targeting the 15 to 110 ft bgs zone and 17 targeting the 15 to 40 ft bgs zone. The recommended number of vertical injection intervals and Provect-IR® mass per interval are outlined in **Table 1**. We also recommend that bioaugmentation with *Dehalococcoides* (DHC; 29 liters) is utilized to ensure efficient CVOC destruction.

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Figure 3: Excavation Area 1 with Provect-IR Reagent Placement

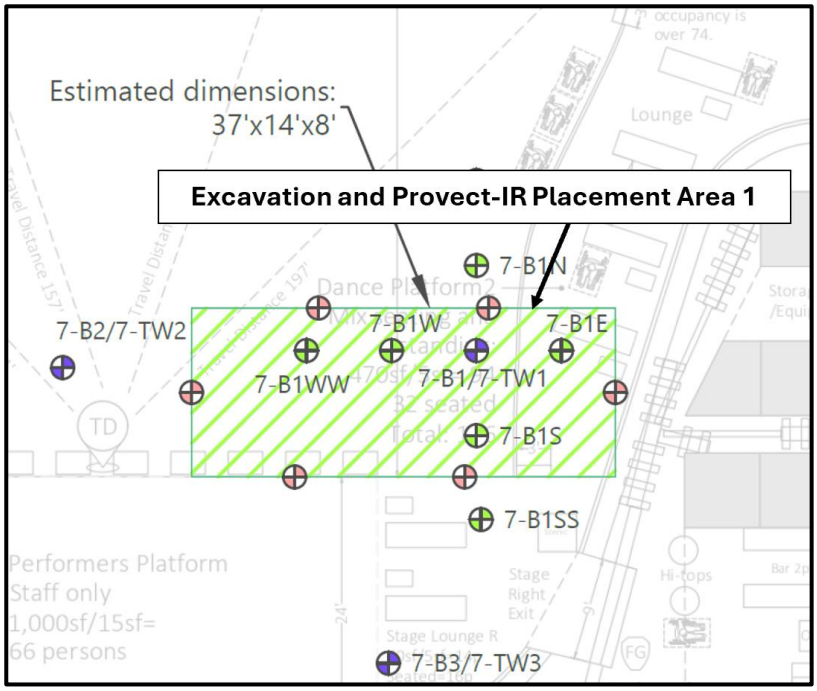

Figure 4: Excavation Area 2 with Provect-IR Reagent Placement

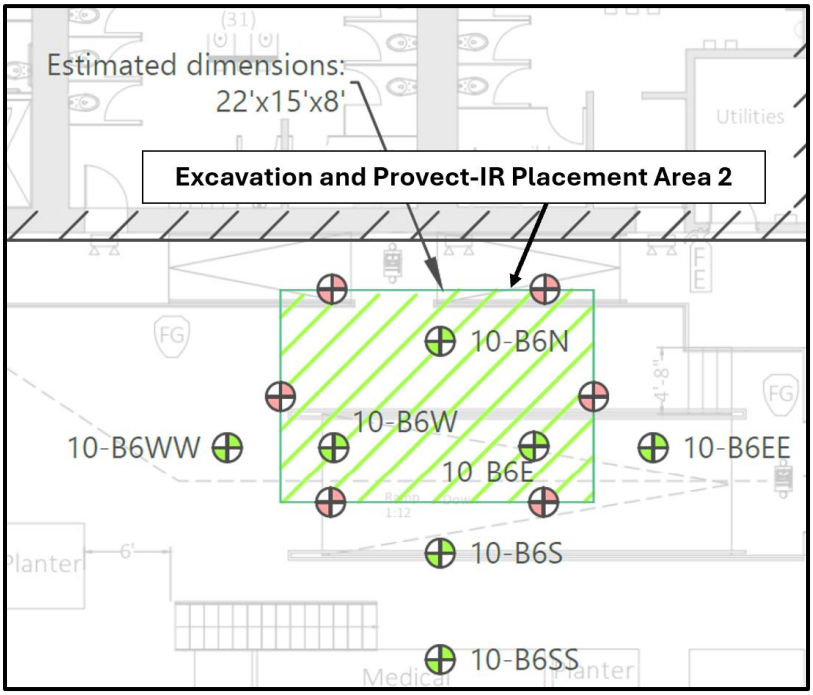

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Figure 5: Conceptual Provect-IR Injection Area and Direct Push Points

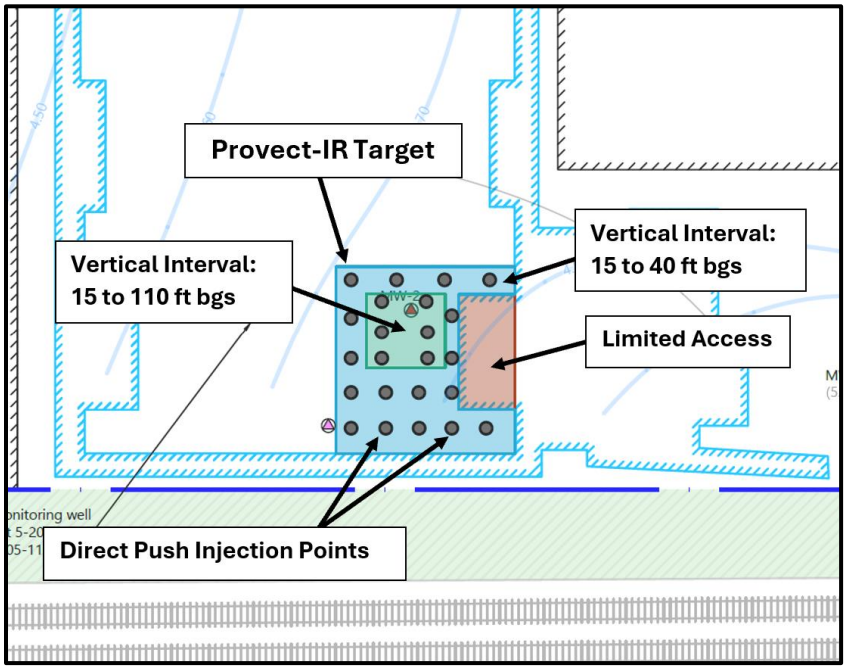

Table 1: Recommended Injection Intervals and Provect-IR Mass

MW-2 Shallow, Intermediate, & Deep Zones (6 DPT Injection Points)		Residual Shallow Zone (17 DPT Injection Points)	
Vertical Interval (24)	Mass of IR & Water Volume	Vertical Interval (6)	Mass of IR & Water Volume
15 – 17 ft bgs	125 lbs & 60 USG	15 – 17 ft bgs	200 lbs & 96 USG
19 – 21 ft bgs	125 lbs & 60 USG	19 – 21 ft bgs	200 lbs & 96 USG
23 - 25 ft bgs	125 lbs & 60 USG	23 – 25 ft bgs	200 lbs & 96 USG
27 – 29 ft bgs	125 lbs & 60 USG	28 – 31 ft bgs	200 lbs & 96 USG
31 – 33 ft bgs	125 lbs & 60 USG	33 – 35 ft bgs	200 lbs & 96 USG
35 – 37 ft bgs	125 lbs & 60 USG	38 – 40 ft bgs	200 lbs & 96 USG
39 – 41 ft bgs	125 lbs & 60 USG	-	-
43 – 45 ft bgs	125 lbs & 60 USG	-	-
47 – 49 ft bgs	125 lbs & 60 USG	-	-
51 – 53 ft bgs	125 lbs & 60USG	-	-
55 – 57 ft bgs	125 lbs & 60 USG	-	-
59 – 61 ft bgs	125 lbs & 60 USG	-	-
63 – 65 ft bgs	125 lbs & 60 USG	-	-
67 – 69 ft bgs	125 lbs & 60 USG	-	-
71 – 73 ft bgs	125 lbs & 60 USG	-	-
75 – 77 ft bgs	125 lbs & 60 USG	-	-

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79 – 81 ft bgs	125 lbs & 60 USG	-	-
83 – 85 ft bgs	125 lbs & 60 USG	-	-
87 – 89 ft bgs	125 lbs & 60 USG	-	-
91 – 93 ft bgs	125 lbs & 60 USG	-	-
95 – 97 ft bgs	125 lbs & 60 USG	-	-
99 – 101 ft bgs	125 lbs & 60 USG	-	-
103 – 105 ft bgs	125 lbs & 60 USG	-	-
108 – 110 ft bgs	125 lbs & 60 USG	-	-
Total Mass & Volume	**18,000 lbs and 8,640 USG**	**-**	**20,400 lbs and 9,792 USG**
Total DHC	**12 liters or 2 liters/point**	-	**17 liters or 1 liter/point**

DISTRIBUTION OF RESPONSIBILITIES

For field scale work at the Site, Provectus will provide environmental biotechnology and design support. Partner (Client) will be responsible for remedial construction (e.g., drilling, injection, crew, etc.), permitting, performance monitoring, water, and reporting. The distribution of responsibilities envisioned is as follows:

1. Provectus will provide and arrange delivery of reagents to the site or other nearby location.
2. Provectus will provide data interpretation to Client, upon request.
3. Provectus will provide technical writing support to Client, upon request.
4. Client will be responsible for remedial construction contracting.
5. Client will be responsible for monitoring treatment performance and sample collection.
6. Client will maintain overall project responsibility and will maintain all client contact and control of the site.
7. Client will be responsible for all health and safety, permitting and approvals, sampling and analytical costs along with all data management and reporting costs.

MATERIAL COST ESTIMATE

Provectus material and delivery costs for the proposed remedial programs are presented below:

Table 2: Excavation Program Provect-IR Reagent Costs

COST ITEM	**CVOC Excavation Program**
Provect-IR60 (provided in supersacks)	14,900 lbs
Provect-IR60 Unit Price ($ / lb)	[redacted]
Provect-IR60 Cost	
Reagent Shipping **Estimate**[2]	
TOTAL COST[3]	

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Table 3: Injection Program Provect-IR Reagent and DHC Costs

COST ITEM	CVOC Injection Program
Provect-IR60 (provided in 50 lb bags)	38,400 lbs
Provect-IR60 Unit Price ($ / lb)	[redacted]
Provect-IR60 Cost	
Reagent Shipping **Estimate**[2]	
DHC	29 liters
DHC Unit Price ($ / liter, includes shipping)	[redacted]
DHC Cost	
TOTAL COST[3]	

1) Volume discount applied and assumes payment within 30 days. Any Provect-IR applicable taxes not included. Please provide a copy of your tax-exempt certificate or resale tax number when placing your order.
2) Shipping rate provided is an estimate. Standard delivery time can vary from 3-4 weeks from time of order, depending upon volume. Expedited transport can be arranged at extra cost. Costs assume standard ground transport via truck, with no need for a lift gate or pallet jack.
3) Provectus terms and conditions **Appendix A** apply.

DISCLAIMER

The estimated dosage and recommended application methodology described in this document are based on the site information provided to us but are not meant to constitute a guaranty of performance or a predictor of the speed at which a given site is remediated. The calculations in the cost estimate regarding the amount of product to be used in your project are based on stoichiometry, and do not account for the kinetics, or speed of the reaction, and represent the minimum anticipated amount needed to address site COIs. As a result, these calculations should be used as a general approximation for purposes of an initial economic assessment. Provectus recommends that you or your consultants complete a comprehensive remedial design that takes into consideration the precise nature of the COI impact and actual site conditions.

As part of this proposal and cost estimate, Provectus provides no warranty or representation, expressed or implied, and nothing herein should be construed as to guaranteeing results from use of the products in the field. Our obligation in the event that remedial goals are not met is explicitly limited to the reduced product cost offer outlined above. Furthermore, by providing this cost estimate, Provectus is not giving any permission or making any recommendation to infringe any third-party patent. No agent, representative or employee of Provectus is authorized to vary any terms of this notice. Provectus is the owner or licensee under various patents, trade secret expertise, and patent applications relating to the use of the products and/or technologies described in this document. All material must be handled in strict accordance with their SDS.

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APPENDIX H: CONSTRUCTION HEALTH & SAFETY PLAN

PSG

SITE-SPECIFIC
HEALTH AND SAFETY PLAN

140 Stewart Avenue
111 Gardner Avenue
Brooklyn, New York

June 29, 2021

TABLE OF CONTENTS

1.0 Introduction 3
1.1 Scope of Work 3
1.2 Emergency and Project Management Contact Information 3
1.3 Address of Hospital 4
1.4 Emergency Equipment 4
1.5 Spills 4
2.0 Health and Safety Staff 6
2.1 General/Site Superintendent 6
2.2 Site Health and Safety Officer (SHSO) 6
2.3 Site Workers 6
3.0 Site Description and Background 7
3.1 Summary of Environmental Conditions 7
4.0 Potential Hazards Related To Fill/Soil 8
4.1 General 8
4.2 Compounds of Concern 8
4.3 Hazard Assessment 8
4.4 Exposure Pathways and Assessment 8
4.5 Additional Precautions 8
4.6 Hazard Assessment and Mitigation 9
5.0 Training 10
5.1 Site-Specific Training 10
5.2 Onsite Safety Meetings 10
5.3 First Aid and CPR 10
6.0 Site control and personal protective equipment 11
6.1 Site Control 11
6.2 Personal Protective Equipment 11
6.3 Site Control for Unexpected Conditions 11
6.3.1 Exclusion Zone 12
6.3.2 Contamination Reduction Zone 12
6.3.3 Remediated Zone 12
6.3.4 Support Zone 13
7.0 Community Air Monitoring Plan 14
7.1 Instrumentation 14
7.2 Action Levels 14
8.0 Vehicle/Site Worker Cleaning Areas and Disposal Procedures 15
8.1 Contamination Prevention 15
8.2 Site Worker Cleaning Procedures 15
8.3 Vehicle Cleaning Area/Stabilized Construction Entrances 15
8.4 Disposal Procedures 15

9.0 Handling of Potential Hazardous Materials 16
10.0 Emergency Plan 17
10.1 Emergency Response Numbers 17
10.2 Emergency Evacuation 17
10.3 Injury to Site Workers 17
10.4 Site Worker Exposure 17
11.0 Field Team Review 18

FIGURE

1. HOSPITAL ROUTE MAP

APPENDIX

A. MATERIAL SAFETY DATA SHEETS (MSDS)

1.0 INTRODUCTION

This Site-specific Health and Safety Plan ("HASP") has been prepared to address activities to be performed during the implementation of a sampling scope of work ("Scope of Work") at 140 Stewart Avenue & 111 Gardener Avenue, Brooklyn, New York (the "Site"). Relevant portions of Occupational Safety and Health Administration ("OSHA") 29 CFR 1910.120 and 1926.62 were used as guidance while preparing this HASP.

The designated Site Health and Safety Officer ("SHSO") will be responsible for implementing the HASP. Compliance with this HASP is required of all workers who may potentially encounter fill at the Site (hereinafter referred to as "Site Workers"), including any Contractor's employees, subcontractors to the Contractor, subcontractors to the Owner's representative, and onsite workers for PSG Engineering, DPC (PSG). In the event that a Site Worker does not follow these procedures, he or she will be required to leave the Site immediately. The content of this HASP may change or undergo revisions based upon changes in the technical scope of work, the results of monitoring, and/or additional information made available to health and safety personnel. Any proposed changes must be reviewed and approved by the Corporate Safety Supervisor, and the SHSO implementing the changes to the HASP. As of the date of this HASP, PSG will be conducting all work at the Site.

Upon entering the Site, all visitors will be required to sign in and read and comply with the provisions of this HASP. In the event that a visitor does not follow these procedures, he or she will be required to leave the Site immediately.

1.1 Scope of Work

The planned Scope of Work includes advancement of six soil borings to a maximum of 150 feet bgs in order to collect soil samples.

1.2 Emergency and Project Management Contact Information

Provided below is a list of telephone numbers for use in the event of an emergency onsite.

Emergency Medical Service 911
Police: New York City Police Department (NYPD) 911
Hospital: Wyckoff Heights Medical Center .....(718) 963-7272
National Response Center .....(800) 424-8802
Poison Control Center .....(800) 222-1222
Chemtrec .....(800) 262-8200
Fire: New York City Fire Department (FDNY) 911
New York City Office of Emergency Management 911
Center for Disease Control .....(800) 311-3435
USEPA (Region II) .....(212) 637-5000
NYSDEC Emergency Spill Response .....(800) 457-7362

The following table includes the contact information for Site management and health and safety personnel:

Title	Contact	Phone
Project Manager	David Lent	732-380-1700
Site Health and Safety Officer	Ally Hassler	732-380-1700

1.3 Address of Hospital

374 Stockholm Street
Brooklyn, New York 11237

(718) 963-7272

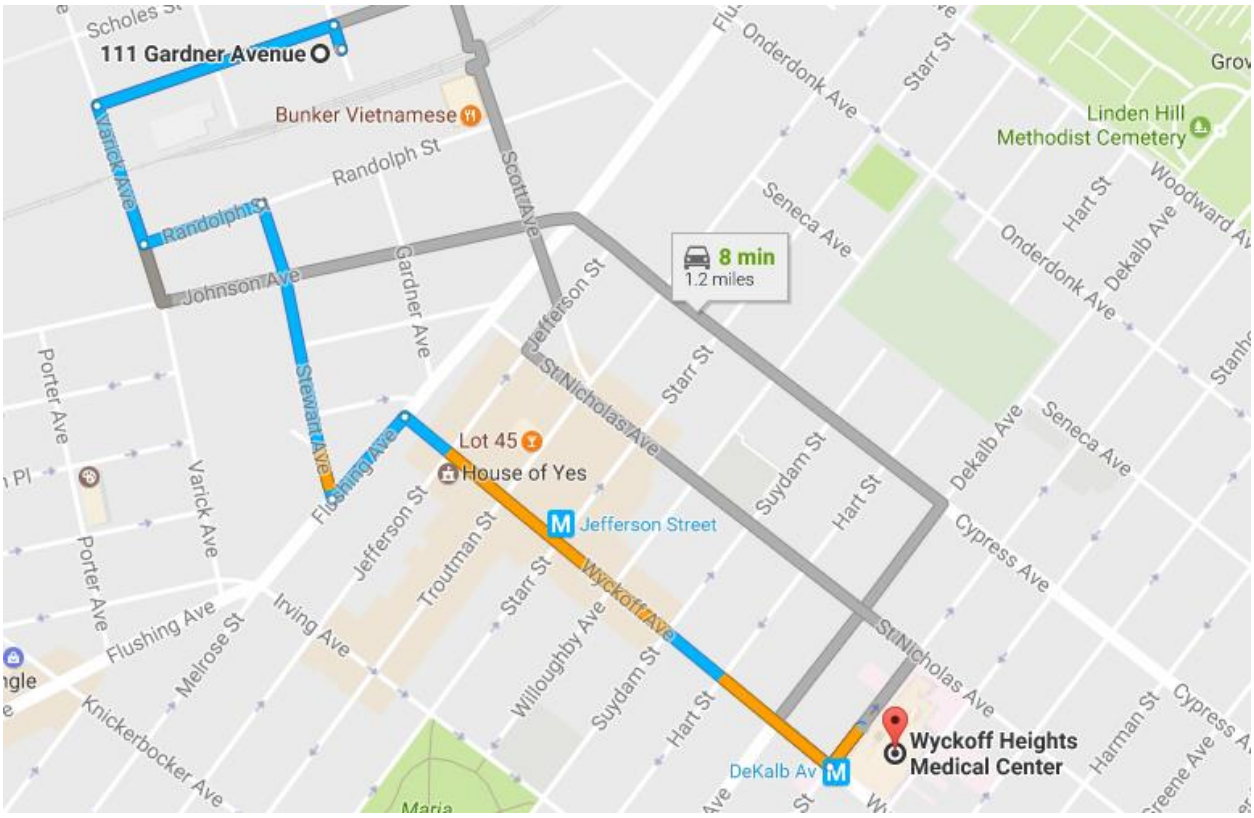
Directions from the Site to the Hospital

Take Meserole Street & Stewart Ave to Flushing Ave

Take Wyckoff Ave to Stockholm Street

Turn left onto Stockholm Street.

Hospital should be on the right.



1.4 Emergency Equipment

The following is a list of emergency equipment to be kept onsite at all times:

- First Aid Kit
- ABC Fire Extinguisher
- Absorbent Pads
- Oil DryEye Wash

1.5 Spills

Spills associated with Site activities may be attributed to project-specific heavy equipment and include gasoline, diesel and hydraulic oil. In the event of a leak or a release, Site personnel will inform their supervisor immediately, locate the source of spillage and stop the flow if it can be done safely. A spill

containment kit including absorbent pads, booms and/or granulated speedy dry absorbent material will be available to Site personnel to facilitate the immediate recovery of the spilled material. Daily inspections of Site equipment components including hydraulic lines, fuel tanks, etc. will be performed by their respective operators as a preventative measure for equipment leaks and to ensure that equipment is functioning properly. In the event of a spill, Site personnel will immediately notify the NYSDEC (1-800-457-7362) and a spill number will be generated.

2.0 HEALTH AND SAFETY STAFF

This section briefly describes the health and safety responsibilities for the excavation work to be implemented at the Site. The following staff is responsible for ensuring compliance with the HASP.

2.1 General/Site Superintendent

- Has the overall responsibility for the health and safety of Site Workers.
- Ensures that adequate resources are provided to the field health and safety staff to carry out their responsibilities as outlined below.

2.2 Site Health and Safety Officer (SHSO)

- Directs and coordinates health and safety monitoring activities.
- Ensures that field teams utilize proper personal protective equipment ("PPE").
- Conducts initial onsite specific training prior to Site Workers commencing work.
- Conducts and documents daily and periodic safety briefings.
- Ensures that field team members comply with this HASP.
- Immediately notifies the GSS and CSS of all accident/incidents.
- At the end of each day, communicates the tasks completed to the designated representatives, the next day's planned activities, any third party issues, changes of work plans, and/or changes in level of PPE.
- Determines upgrading or downgrading of PPE based on Site conditions and/or real time monitoring results. Ensures that monitoring instruments are calibrated daily or as the manufacturer's instructions determine.
- Reports to the Project Manager to provide summaries of field operations and progress.
- Submits and maintains all documentation required in this HASP and any other pertinent health and safety documentation.

2.3 Site Workers

- Reports any unsafe or potentially hazardous conditions to the SHSO.
- Maintains knowledge of the information, instructions, and emergency response actions contained in the HASP.
- Complies with rules, regulations, and procedures as set forth in this HASP, including any revisions that are instituted.
- Prevents admittance to work Site by unauthorized personnel.

3.0 SITE DESCRIPTION AND BACKGROUND

The Site is located in the Forest Park section of the Borough of Brooklyn, City of New York.

3.1 Summary of Environmental Conditions

Previous investigations have determined that the soil, groundwater, and soil gas onsite are impacted by several chemical constituents.

Soil contains several metals, including arsenic, chromium, lead, and mercury in elevated concentrations throughout the site. In addition, the volatile organic compounds (VOCs) tetrachloroethylene (PCE), and several semi-volatile organic compounds (SVOCs) associated with petroleum impacts have been found in elevated concentrations in the soil. The PCE contamination was found under the 111 Gardner building, while the SVOC contamination has been found throughout the site's soil. The SVOCs are mostly poly-aromatic hydrocarbons (PAHs) and an MSDS for PAHs has been included as an attachment to this HASP.

Several VOCs, including benzene, naphthalene, PCE, trichloroethylene (TCE), and vinyl chloride have been detected in the groundwater onsite in elevated concentrations above the state standard. In addition, PAHs and metals have also impacted onsite groundwater.

Chlorinated compounds, such as PCE and TCE have been detected in soil vapor onsite, both, directly below the slab of the 111 Gardner building, and in deeper soil gas points onsite.

4.0 POTENTIAL HAZARDS RELATED TO FILL/SOIL

This section provides a brief summary of the potential Compounds of Concern and related hazards at the Site.

4.1 General

The following information is presented in order to identify the types of materials that may be encountered at the Site.

4.2 Compounds of Concern

No compounds of concern have been identified at the time.

4.3 Hazard Assessment

The potential to encounter hazards related to surficial soil and groundwater is dependent upon the type of work activity performed and the duration and location of the work activity. Soil and groundwater will be during the sample collection process in small quantities; therefore potential environmental hazards at the Site include ingestion and/or skin contact of soil and groundwater.

Prior to the beginning of each new phase of work, an activity hazard analysis will be prepared by the SHSO with the assistance of the Project Manager. The analysis will address the hazards for each activity performed in the phase and will present the procedures and safeguards necessary to eliminate the hazards or reduce the risk.

There is no real potential for Site Workers to be exposed to chemical hazards during the Scope of Work.

4.4 Exposure Pathways and Assessment

Exposure to these compounds during ongoing activities may occur through inhalation of dust particles and by way of dermal absorption and accidental ingestion by either direct or indirect cross-contamination activities. For groundwater, the most common exposure may occur via accidental ingestion or dermal absorption.

Inhalation of dust particles can occur during adverse weather conditions (high or changing wind directions). Due to the sampling quantities involved in this Scope of Work and as all work will be conducted indoors, there is little chance for generation or migration of dust. Should dust become an issue, dust control measures such as applying water to work areas will be implemented if visible dust is generated, in accordance with this HASP.

4.5 Additional Precautions

Dermal absorption or skin contact with Site soils is possible during intrusive activities at the Site. The use of PPE and proper vehicle and Site Worker cleaning procedures should significantly reduce the risk of skin contact. The potential for accidental ingestion of Site soils/groundwater is expected to be remote when good hygiene practices are used.

4.6 Hazard Assessment and Mitigation

Task	Hazards	Risk of Exposure	Action Taken
Mobilization/Demobilization	Inhalation/Skin Contact	Low	Proper PPE will be worn. No eating or drinking will be permitted in active work areas.
Soil, Groundwater, and Soil Vapor Sampling	Inhalation/Skin Contact	Low	Proper PPE will be worn. No eating or drinking will be permitted in active work areas.

5.0 TRAINING

This section details the training requirement for Site Workers.

5.1 Site-Specific Training

Prior to the commencement of field activities, the SHSO will provide Site-specific training to all Site Workers. Site Workers will receive training that will specifically address the activities, procedures, monitoring, and equipment for Site operations. It will include Site layout, hazards, fire prevention and response, first aid equipment locations and emergency services at the Site, and will highlight all provisions contained within this HASP. This training will also allow field workers to clarify anything they do not understand and to reinforce their responsibilities regarding safety and operations for their particular activity. This training may be conducted in conjunction with other Site training or meetings.

5.2 Onsite Safety Meetings

Safety meetings will take place to discuss potential safety concerns for the upcoming activities. At a minimum, the appropriate field supervisors or foremen for all workers will conduct at least one formal daily safety meeting in the morning; however, additional meetings or briefings may be necessary as a result of changing conditions or modifying tasks. Copies of the daily safety meeting sign in sheet and a description of items discussed will be kept at the Site.

The meetings will also provide a forum to facilitate conformance with safety requirements and to identify performance deficiencies related to safety during daily activities or as a result of safety audits by the Contractor or other involved parties. These meetings may be conducted in conjunction with other Site training or meetings.

Visitors onsite must be made aware of the hazards onsite in a Site-specific safety briefing and sign a statement indicating that they will comply with the applicable requirements of this HASP.

5.3 First Aid and CPR

The SHSO will identify those individuals having first aid and CPR training to assist with emergency medical treatment during field activities, if necessary. The training will be consistent with the requirements of the American Red Cross. Certification and appropriate training documentation will be kept with the Site Workers' records by the SHSO.

6.0 SITE CONTROL AND PERSONAL PROTECTIVE EQUIPMENT

This section provides a detailed description of the Site control measures and personal PPE procedures to be implemented at the Site. It is important to note that this HASP has been drafted to apply to work in Level D or modified Level D only. If the monitoring results require Level C protection or higher, all Site work will immediately cease until activities can be completed with workers trained in accordance with 29 CFR 1910.120.

6.1 Site Control

The Site, from land surface down to the native soil, will be considered the work area with respect to this HASP.

6.2 Personal Protective Equipment

The level of protection worn by Site Workers will be enforced by the SHSO. The level of protection may be upgraded at the discretion of the SHSO. All decisions on the level of protection will be based upon a conservative interpretation by the SHSO of the information provided by air monitoring results and/or other appropriate information. Any changes in the level of protection shall be recorded in the health and safety field logbook. If the level of respiratory protection needs to be upgraded, the Contractor will immediately contact the Project Manager and Owner's Representative.

The level of PPE for work on the Site is Level D PPE, which includes the following:

- Work uniform (long pants, sleeved shirt)
- Hard hat (all Geoprobe operations)
- Steel-toed, steel-shanked work boots
- Safety glasses
- Boot covers (as needed)
- Hearing protection (as needed)
- Reflective safety vest

If required by the SHSO, modified Level D PPE may also be used at the Site during specific activities, consisting of the following:

- Regular Tyvek coveralls (Poly-coated Tyvek as required)
- Outer gloves: leather, cotton, neoprene or nitrile (as required)
- Inner gloves: latex or nitrile (doubled) as required
- Chemical resistant boots over work boots (as required)
- Steel-toed, steel-shanked work boots
- Hard hat
- Safety glasses
- Hearing protection, as needed
- Reflective safety vest

6.3 Site Control for Unexpected Conditions

Although unexpected for this Scope of Work, in the event that unexpected conditions or hazardous waste is encountered, thereby requiring workers trained in accordance with 29 CFR 1910.120, the following four-zone approach will be employed in order to prevent the spread of the contamination from the area containing the unexpected condition and to protect Site Workers. The four-zones include the Exclusion Zone, the Contamination Reduction Zone, the Remediated Zone, and the Support Zone. A stepped

remedial approach will be managed and the zones modified as the work progresses. Each of the areas will be defined through the use of control barricades and/or construction/hazard fencing. A clearly marked delineation between the zones will be maintained. Signage will be posted to further identify and delineate these areas.

The following subsections describe the four zones that will be utilized in the event that unexpected conditions or contamination is discovered at the Site.

6.3.1 Exclusion Zone

The area where the unexpected condition is discovered would be considered the Exclusion Zone (EZ). All excavation and handling of contaminated materials generated as a result of the discovery of an unexpected condition would take place within the EZ. This zone will be clearly delineated by hay bales, jersey barriers, and/or similar methods. Safety tape may be used as secondary delineation within the EZ. The zone delineation markings may be opened in areas for varying lengths of time to accommodate equipment operation or specific construction activities. The SHSO may establish more than one EZ where different levels of protection may be employed or where different hazards exist. Site Workers will not be allowed in the EZ without:

- A buddy (co-worker)
- Appropriate PPE
- Medical authorization
- Training certification

6.3.2 Contamination Reduction Zone

A Contamination Reduction Zone (CRZ) will be established between the EZ and the property limits. The CRZ contains the Contamination Reduction Corridor (CRC) and provides an area for decontamination of Site Workers and equipment. The CRZ will be used for general Site entry and egress, in addition to access for heavy equipment and emergency support services. Site Workers will not be allowed in the CRZ without:

- A buddy (co-worker)
- Appropriate PPE
- Medical authorization
- Training certification

6.3.3 Remediated Zone

A Remediated Zone (RZ) will be established in portions of the Site where the remediation has been completed and only general construction work will be performed. Setup of the RZ will consist of implementing several measures designed to reduce the risk of workers' exposure and prevent non-trained workers from entering the non-remediated zone. Non-trained workers will work only in areas where the potential for exposure has been minimized by removal of all hazardous materials. The remediated zone will then be separated from the non-remediated zone by installing and maintaining temporary plywood or other construction fences along the boundary between the two zones. If potentially impacted material is uncovered in the RZ, all non-trained workers will be removed and the SHSO will assess the potential risks. If, at any other time, the risk of exposure increases while non-trained workers are present in the RZ, the non-trained workers will be removed. At all times, when non-trained workers are present in the RZ, air monitoring for the presence of VOCs will be conducted in the RZ, as well as at the fence line of the non-remediated zone.

6.3.4 Support Zone

The Support Zone (SZ) will be an uncontaminated area that will be the field support area for the Site operations. The SZ will contain the temporary project trailers and provides for field team communications and staging for emergency response. Appropriate sanitary facilities and safety equipment will be located in this zone. Potentially contaminated Site Workers or materials are not allowed in this zone. The only exception will be appropriately packaged/decontaminated and labeled samples. Meteorological conditions will be observed and noted from this zone, as well as those factors pertinent to heat and cold stress.

7.0 COMMUNITY AIR MONITORING PLAN

A Community Air Monitoring Plan ("CAMP") will be implemented onsite, in which VOCs will be monitored in the work area during ground intrusive activities. VOCs will be monitored as a precautionary measure. The design of the CAMP is intended to provide a measure of protection for the onsite workers not directly involved with the subject work activities from potential airborne contaminant releases as a direct result of remedial work activities. Monitoring will be performed to verify the adequacy of the Level D respiratory protection, to aid in Site layout, and to document monitoring results. If air monitoring in the work areas indicates the presence of potentially hazardous materials, control measures will be implemented. All monitoring instruments shall be operated by qualified personnel only and will be calibrated prior to use daily or more often, as necessary. The SHSO is responsible for ensuring that appropriate monitoring, levels of protection, and safety procedures are followed.

7.1 Instrumentation

The following monitoring instruments supplied by the Contractor will be available for use during field operations, as necessary:

- Photoionization Detector (PID) with 10.6 EV probe or equivalent.

A PID organic vapor meter shall be used to monitor VOCs in active work areas during the soil intrusive activities. All instruments shall be calibrated daily prior to use in accordance with the manufacturer's procedures. Calibration records shall be documented and recorded daily. The frequency of monitoring should be determined by the SHSO after consultation with the Project Manager. The rationale for any modification must be documented and maintained by the SHSO in the onsite health and safety files.

7.2 Action Levels

Action levels for the upgrading of PPE requirements in the HASP will apply to all Site work. These action levels are for known contaminants measured using direct reading instruments in the Breathing Zone ("BZ") for VOCs. The BZ will be determined by the SHSO, but is typically 4 to 5 feet above the work area surface or elevation. If the level of respiratory protection needs to be upgraded, the Contractor will immediately contact the Construction Manager and Owner's Representative.

8.0 VEHICLE/SITE WORKER CLEANING AREAS AND DISPOSAL PROCEDURES

This section details the specific vehicle/Site Worker cleaning and waste disposal procedures to be implemented at the Site during the Scope of Work activities.

8.1 Contamination Prevention

Contamination prevention should minimize worker exposure and help to avoid spreading Site derived soil onto the public roadways. Procedures for prevention include:

Site Workers

- Do not walk through areas of soil.
- Do not directly handle or touch soil.
- No eating or drinking in the soil areas.
- Particular care should be taken to protect any skin injuries.
- Stay upwind of dust – not expected as all work is indoors.
- Do not use cigarettes, cosmetics, gum, etc., in areas of soil.

Heavy Equipment

- Care should be taken to limit the amount of soil that comes in contact with heavy equipment (tires, Geoprobe tracks).
- If tools used in soil are to be placed on equipment for transport to an area where all soil has been removed or to be cleaned, plastic should be used to keep the equipment clean.

8.2 Site Worker Cleaning Procedures

It is not expected that any Site Worker will need to employ a cleaning procedure when exiting the active work areas due to the limited amount of potential for soil exposure. There will be no designated Site Worker Cleaning Area for this Scope of Work.

8.3 Vehicle Cleaning Area/Stabilized Construction Entrances

It is not expected for any vehicle to require a cleaning area due to the limited amount of potential for soil exposure. No vehicle cleaning area or construction entrance will be constructed. Regardless, no soil will be spread or tracked onto the public roadway. No equipment will be allowed to leave the Site prior to the SHSO or Site Superintendent's inspection and verification that the equipment is clean.

8.4 Disposal Procedures

A system of segregating all waste will be developed by the SHSO. All discarded materials, waste materials, or other objects shall be handled in such a way as to preclude the potential for spreading Fill, creating a sanitary hazard, or causing litter to be left onsite. If any potentially contaminated materials (e.g., clothing, gloves, etc.) are generated, they will be bagged or drummed, as necessary, labeled, and segregated for disposal. All non-contaminated materials shall be collected and bagged for appropriate disposal as domestic waste.

9.0 HANDLING OF POTENTIAL HAZARDOUS MATERIALS

Hazardous materials are not expected to be encountered.

10.0 EMERGENCY PLAN

The emergency plan outlined in this section will be understood by all Site Workers prior to the start of work so that, should an emergency occur, all parties will know how to respond. During an emergency, the SHSO will perform air monitoring as needed and will assist responding emergency personnel with health and safety information related to the Site. Site Workers will endeavor to keep non-essential personnel away from the incident until the appropriate emergency personnel arrive. At that time, the emergency personnel will take control of the Site. Site Workers may be asked to lend assistance to emergency personnel such as during evacuations, help with the injured, etc.

10.1 Emergency Response Numbers

The following sections provide emergency response and project management phone numbers. Emergencies encountered on this Site will be responded to via offsite emergency services personnel and Site Workers.

- Emergency Medical Service 911
- Police: New York City Police Department (NYPD) 911
- Hospital: Wyckoff Heights Medical Center .....(718) 963-7272
- National Response Center .....(800) 424-8802
- Poison Control Center .....(800) 222-1222
- Chemtrec .....(800) 262-8200
- Fire: New York City Fire Department (FDNY) 911
- New York City Office of Emergency Management 911
- Center for Disease Control .....(800) 311-3435
- USEPA (Region II) .....(212) 637-5000
- NYSDEC Emergency Spill Response .....(800) 457-7362

10.2 Emergency Evacuation

Evacuation procedures will be discussed prior to the start of work and periodically during safety meetings. In the event of an emergency situation such as fire or an explosion the area will be evacuated. All Site Workers will assemble outside of the active work areas and away from the area of danger and the fire department and other emergency response personnel will be notified by telephone of the emergency.

10.3 Injury to Site Workers

Emergency first aid shall be applied onsite as appropriate. In the event that additional medical attention is necessary, the injured worker should be brought to the emergency room at the hospital. If the Site worker is unable to be brought to the hospital, 911 should be called and an ambulance sent to the Site.

10.4 Site Worker Exposure

Skin Contact: Use copious amounts of soap and water. Wash/rinse affected area thoroughly, then clean or remove PPE and provide appropriate medical attention, if necessary. Eyes should be rinsed for 15 minutes upon chemical contamination.
Inhalation: Move to fresh air and/or, if necessary, clean or remove PPE and transport to emergency medical facility.
Ingestion: Clean or remove PPE and transport to emergency medical facility, if necessary.
Puncture Wound/Laceration: Clean or remove PPE and transport to emergency medical facility, if necessary.

11.0 FIELD TEAM REVIEW

Each Site Worker shall sign this section after Site-specific training is completed and before being permitted to work at the Site.

Date	Name	Signature	Company

APPENDIX A: MSDS

Material Safety Data Sheet
PAH Contaminated Soil

ACC# 17974

Section 1 - Chemical Product and Company Identification

MSDS Name: PAH Contaminated Soil
Catalog Numbers: SRS103100
Synonyms: API separator sludge
Company Identification:
Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410
For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
Not available	Soil	78-99	unlisted
120-12-7	Anthracene	0-2	204-371-1
129-00-0	Pyrene	0-2	204-927-3
132-64-9	Dibenzofuran	0-2	205-071-3
205-99-2	Benzo(b)fluoranthene	0-2	205-911-9
206-44-0	Fluoranthene	0-2	205-912-4
208-96-8	Acenaphthylene	0-2	205-917-1
218-01-9	1,2-benzphenanthrene	0-2	205-923-4
50-32-8	Benzo(a)pyrene	0-2	200-028-5
56-55-3	1,2-Benzanthracene	0-2	200-280-6
83-32-9	Acenaphthene	0-2	201-469-6
85-01-8	Phenanthrene	0-2	201-581-5
86-73-7	Fluorene	0-2	201-695-5
87-86-5	Pentachlorophenol	0-2	201-778-6
91-20-3	Naphthalene	0-2	202-049-5
91-57-6	2-methylnaphthalene	0-2	202-078-3

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: not available solid.
Warning! May cause allergic skin reaction. Causes eye and skin irritation. May cause cancer based on animal studies.
Target Organs: Eyes, skin.

Potential Health Effects

Eye: May cause eye irritation.
Skin: May cause skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.
Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Naphthalene can cause cataracts, optical neuritis, and cornea injuries. Ingestion of large quantities may cause severe hemolytic anemia and
Inhalation: Causes respiratory tract irritation. May cause effects similar to those described for ingestion.
Chronic: May cause cancer according to animal studies. Prolonged exposure to respirable crystalline quartz may cause delayed lung injury/fibrosis (silicosis).

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.
Flash Point: Not applicable.
Autoignition Temperature: Not applicable.
Explosion Limits, Lower: Not available.
Upper: Not available.
NFPA Rating: Not published.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

Section 7 - Handling and Storage

Handling: Avoid generating dusty conditions. Use with adequate ventilation. Avoid contact with skin and eyes. Keep container tightly closed. Avoid ingestion and inhalation.
Storage: Store in a cool, dry place.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Soil	none listed	none listed	none listed
Anthracene	0.2 mg/m3 TWA (as benzene soluble aerosol) (listed under Coal tar pitches).	0.1 mg/m3 TWA (cyclohexane-extractable fraction) (listed under Coal tar pitches).80 mg/m3 IDLH (listed under Coal tar pitches).	0.2 mg/m3 TWA (benzene soluble fraction) (listed under Coal tar pitches).
Pyrene	0.2 mg/m3 TWA (as benzene soluble aerosol) (listed under Coal tar pitches).	0.1 mg/m3 TWA (cyclohexane-extractable fraction) (listed under Coal tar pitches).80 mg/m3 IDLH (listed under Coal tar pitches).	0.2 mg/m3 TWA (benzene soluble fraction) (listed under Coal tar pitches).
Dibenzofuran	none listed	none listed	none listed
Benzo(b)fluoranthene	none listed	none listed	none listed
Fluoranthene	none listed	none listed	none listed
Acenaphthylene	none listed	none listed	none listed
1,2-benzphenanthrene	0.2 mg/m3 TWA (as benzene soluble aerosol) (listed under Coal tar pitches).	0.1 mg/m3 TWA (cyclohexane-extractable fraction) (listed under Coal tar pitches).80 mg/m3 IDLH (listed under Coal tar pitches).	0.2 mg/m3 TWA (benzene soluble fraction) (listed under Coal tar pitches).
Benzo(a)pyrene	0.2 mg/m3 TWA (as benzene soluble aerosol) (listed under Coal tar pitches).	0.1 mg/m3 TWA (cyclohexane-extractable fraction) (listed under Coal tar pitches).80 mg/m3 IDLH (listed under Coal tar pitches).	0.2 mg/m3 TWA (benzene soluble fraction) (listed under Coal tar pitches).
1,2-Benzanthracene	none listed	none listed	none listed
Acenaphthene	none listed	none listed	none listed
Phenanthrene	0.2 mg/m3 TWA (as benzene soluble aerosol) (listed under Coal tar pitches).	0.1 mg/m3 TWA (cyclohexane-extractable fraction) (listed under Coal tar pitches).80 mg/m3 IDLH (listed under Coal tar pitches).	0.2 mg/m3 TWA (benzene soluble fraction) (listed under Coal tar pitches).
Fluorene	none listed	none listed	none listed
Pentachlorophenol	0.5 mg/m3 TWA; Skin - potential significant contribution to overall exposure by the cutaneous r oute	0.5 mg/m3 TWA 2.5 mg/m3 IDLH	0.5 mg/m3 TWA
Naphthalene	10 ppm TWA; 15 ppm STEL; Skin - potential significant contribution to overall exposure by the cutaneous r oute	10 ppm TWA; 50 mg/m3 TWA 250 ppm IDLH	10 ppm TWA; 50 mg/m3 TWA
2-methylnaphthalene	0.5 ppm TWA; Skin - potential significant contribution to overall exposure by the cutaneous r oute	none listed	none listed

OSHA Vacated PELs: Soil: No OSHA Vacated PELs are listed for this chemical. Anthracene: No OSHA Vacated PELs are listed for this chemical. Pyrene: No OSHA Vacated PELs are listed for this chemical. Dibenzofuran: No OSHA Vacated PELs are listed for this chemical. Benzo(b)fluoranthene: No OSHA Vacated

PELs are listed for this chemical. Fluoranthene: No OSHA Vacated PELs are listed for this chemical. Acenaphthylene: No OSHA Vacated PELs are listed for this chemical. 1,2-benzphenanthrene: No OSHA Vacated PELs are listed for this chemical. Benzo(a)pyrene: No OSHA Vacated PELs are listed for this chemical. 1,2-Benzanthracene: No OSHA Vacated PELs are listed for this chemical. Acenaphthene: No OSHA Vacated PELs are listed for this chemical. Phenanthrene: No OSHA Vacated PELs are listed for this chemical. Fluorene: No OSHA Vacated PELs are listed for this chemical. Pentachlorophenol: 0.5 mg/m3 TWA Naphthalene: 10 ppm TWA; 50 mg/m3 TWA 2-methylnaphthalene: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid
Appearance: not available
Odor: none reported
pH: Not available.
Vapor Pressure: Not applicable.
Vapor Density: Not available.
Evaporation Rate: Not applicable.
Viscosity: Not applicable.
Boiling Point: Not available.
Freezing/Melting Point: Not available.
Decomposition Temperature: Not available.
Solubility: Insoluble in water.
Specific Gravity/Density: Not available.
Molecular Formula: Mixture
Molecular Weight: Not available.

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: High temperatures.
Incompatibilities with Other Materials: None reported.
Hazardous Decomposition Products: No data available.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:
CAS# 120-12-7: CA9350000
CAS# 129-00-0: UR2450000; UR2450100
CAS# 132-64-9: HP4430000
CAS# 205-99-2: CU1400000
CAS# 206-44-0: LL4025000
CAS# 208-96-8: AB1254000; AB1254200
CAS# 218-01-9: GC0700000

CAS# 50-32-8: DJ3675000
CAS# 56-55-3: CV9275000
CAS# 83-32-9: AB1000000
CAS# 85-01-8: SF7175000
CAS# 86-73-7: LL5670000
CAS# 87-86-5: SM6300000; SM6314000; SM6321000
CAS# 91-20-3: QJ0525000
CAS# 91-57-6: QJ9635000
LD50/LC50:
CAS# 120-12-7:
Oral, mouse: LD50 = 4900 mg/kg;
.

CAS# 129-00-0:
Draize test, rabbit, skin: 500 mg/24H Mild;
Inhalation, rat: LC50 = 170 mg/m3;
Inhalation, rat: LC50 = 170 mg/m3;
Oral, mouse: LD50 = 800 mg/kg;
Oral, rat: LD50 = 2700 mg/kg;
.

CAS# 132-64-9:
.

CAS# 205-99-2:
.

CAS# 206-44-0:
Oral, rat: LD50 = 2 gm/kg;
Skin, rabbit: LD50 = 3180 mg/kg;
.

CAS# 208-96-8:
Oral, mouse: LD50 = 1760 mg/kg;
.

CAS# 218-01-9:
.

CAS# 50-32-8:
.

CAS# 56-55-3:
.

CAS# 83-32-9:
.

CAS# 85-01-8:
Oral, mouse: LD50 = 700 mg/kg;
Oral, rat: LD50 = 1.8 gm/kg;
.

CAS# 86-73-7:
.

CAS# 87-86-5:
Draize test, rabbit, eye: 100 uL/24H Mild;
Inhalation, mouse: LC50 = 225 mg/m3;
Inhalation, mouse: LC50 = 225 mg/m3;
Inhalation, rat: LC50 = 355 mg/m3;

Inhalation, rat: LC50 = 200 mg/m3;
Inhalation, rat: LC50 = 335 mg/m3;
Oral, mouse: LD50 = 36 mg/kg;
Oral, mouse: LD50 = 117 mg/kg;
Oral, mouse: LD50 = 30 mg/kg;
Oral, rabbit: LD50 = 200 mg/kg;
Oral, rat: LD50 = 27 mg/kg;
Oral, rat: LD50 = 27 mg/kg;
Oral, rat: LD50 = 50 mg/kg;
Skin, rat: LD50 = 96

CAS# 91-20-3:
Draize test, rabbit, eye: 100 mg Mild;
Inhalation, rat: LC50 = >340 mg/m3/1H;
Oral, mouse: LD50 = 316 mg/kg;
Oral, rat: LD50 = 490 mg/kg;
Skin, rabbit: LD50 = >20 gm/kg;
Skin, rat: LD50 = >2500 mg/kg;

.

CAS# 91-57-6:
Oral, rat: LD50 = 1630 mg/kg;

.

Carcinogenicity:
CAS# 120-12-7:

- **ACGIH:** A1 - Confirmed Human Carcinogen (listed as 'Coal tar pitches').
- **California:** Not listed.
- **NTP:** Known carcinogen (listed as Coal tar pitches).
- **IARC:** Group 1 carcinogen (listed as Coal tar pitches).

CAS# 129-00-0:

- **ACGIH:** A1 - Confirmed Human Carcinogen (listed as 'Coal tar pitches').
- **California:** Not listed.
- **NTP:** Known carcinogen (listed as Coal tar pitches).
- **IARC:** Group 1 carcinogen (listed as Coal tar pitches).

CAS# 132-64-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 205-99-2:

- **ACGIH:** A2 - Suspected Human Carcinogen
- **California:** carcinogen, initial date 7/1/87
- **NTP:** Suspect carcinogen
- **IARC:** Group 2B carcinogen

CAS# 206-44-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 208-96-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 218-01-9:

- **ACGIH:** A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
- **California:** carcinogen, initial date 1/1/90
- **NTP:** Known carcinogen (listed as Coal tar pitches).
- **IARC:** Group 1 carcinogen (listed as Coal tar pitches).

CAS# 50-32-8:

- **ACGIH:** A2 - Suspected Human Carcinogen
- **California:** carcinogen, initial date 7/1/87
- **NTP:** Suspect carcinogen
- **IARC:** Group 1 carcinogen

CAS# 56-55-3:

- **ACGIH:** A2 - Suspected Human Carcinogen
- **California:** carcinogen, initial date 7/1/87
- **NTP:** Suspect carcinogen
- **IARC:** Group 2B carcinogen

CAS# 83-32-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 85-01-8:

- **ACGIH:** A1 - Confirmed Human Carcinogen (listed as 'Coal tar pitches').
- **California:** Not listed.
- **NTP:** Known carcinogen (listed as Coal tar pitches).
- **IARC:** Group 1 carcinogen (listed as Coal tar pitches).

CAS# 86-73-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 87-86-5:

- **ACGIH:** A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
- **California:** carcinogen, initial date 1/1/90
- **NTP:** Not listed.
- **IARC:** Group 2B carcinogen

CAS# 91-20-3:

- **ACGIH:** Not listed.
- **California:** carcinogen, initial date 4/19/02
- **NTP:** Suspect carcinogen
- **IARC:** Group 2B carcinogen

CAS# 91-57-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Mutagenicity: No information available.
Neurotoxicity: No information available.
Other Studies:

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series:
CAS# 206-44-0: waste number U120.
CAS# 218-01-9: waste number U050.
CAS# 50-32-8: waste number U022.
CAS# 56-55-3: waste number U018.
CAS# 91-20-3: waste

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not regulated as a hazardous material	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA

Soil is not listed on the TSCA inventory. It is for research and development use only.
CAS# 120-12-7 is listed on the TSCA inventory.
CAS# 129-00-0 is listed on the TSCA inventory.
CAS# 132-64-9 is listed on the TSCA inventory.
CAS# 205-99-2 is not listed on the TSCA inventory. It is for research and development use only.
CAS# 206-44-0 is listed on the TSCA inventory.
CAS# 208-96-8 is listed on the TSCA inventory.
CAS# 218-01-9 is listed on the TSCA inventory.
CAS# 50-32-8 is listed on the TSCA inventory.
CAS# 56-55-3 is listed on the TSCA inventory.
CAS# 83-32-9 is listed on the TSCA inventory.
CAS# 85-01-8 is listed on the TSCA inventory.
CAS# 86-73-7 is listed on the TSCA inventory.
CAS# 87-86-5 is listed on the TSCA inventory.
CAS# 91-20-3 is listed on the TSCA inventory.
CAS# 91-57-6 is listed on the TSCA inventory.

Health & Safety Reporting List

CAS# 129-00-0: Effective 6/1/87, Sunset 6/1/97 CAS# 91-20-3: Effective 6/1/87, Sunset 6/1/97

Chemical Test Rules

CAS# 91-20-3: 40 CFR 799.5115

Section 12b

CAS# 91-20-3: Section 4, 0.1 % de minimus concentration

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 120-12-7: 5000 lb final RQ; 2270 kg final RQ CAS# 129-00-0: 5000 lb final RQ; 2270 kg final RQ CAS# 132-64-9: 100 lb final RQ; 45.4 kg final RQ CAS# 205-99-2: 1 lb final RQ; 0.454 kg final RQ CAS# 206-44-0: 100 lb final RQ; 45.4 kg final RQ CAS# 208-96-8: 5000 lb final RQ; 2270 kg final RQ CAS# 218-01-9: 100 lb final RQ; 45.4 kg final RQ CAS# 50-32-8: 1 lb final RQ; 0.454 kg final RQ CAS# 56-55-3: 10 lb final RQ; 4.54 kg final RQ CAS# 83-32-9: 100 lb final RQ; 45.4 kg final RQ CAS# 85-01-8: 5000 lb final RQ; 2270 kg final RQ CAS# 86-73-7: 5000 lb final RQ; 2270 kg final RQ CAS# 87-86-5: 10 lb final RQ; 4.54 kg final RQ CAS# 91-20-3: 100 lb final RQ; 45.4 kg final RQ

SARA Section 302 Extremely Hazardous Substances

CAS# 129-00-0: 1000 lb lower threshold TPQ; 10000 lb upper threshold T PQ

SARA Codes

CAS # 120-12-7: immediate.
CAS # 129-00-0: immediate, delayed.
CAS # 206-44-0: immediate.
CAS # 50-32-8: immediate, delayed.
CAS # 56-55-3: delayed.
CAS # 83-32-9: immediate.
CAS # 85-01-8: immediate.
CAS # 91-20-3: immediate, delayed, fire.
CAS # 91-57-6: immediate.

Section 313

This material contains Anthracene (CAS# 120-12-7, 0-2%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

This material contains Dibenzofuran (CAS# 132-64-9, 0-2%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

This material contains Benzo(b)fluoranthene (CAS# 205-99-2, 0-2%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR

This material contains Fluoranthene (CAS# 206-44-0, 0-2%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

This material contains 1,2-benzphenanthrene (CAS# 218-01-9, 0-2%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR

This material contains Benzo(a)pyrene (CAS# 50-32-8, 0-2%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR

This material contains 1,2-Benzanthracene (CAS# 56-55-3, 0-2%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR

This material contains Phenanthrene (CAS# 85-01-8, 0-2%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

This material contains Pentachlorophenol (CAS# 87-86-5, 0-2%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR

This material contains Naphthalene (CAS# 91-20-3, 0-2%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

CAS# 132-64-9 is listed as a hazardous air pollutant (HAP).

CAS# 87-86-5 is listed as a hazardous air pollutant (HAP).

CAS# 91-20-3 is listed as a hazardous air pollutant (HAP).

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

CAS# 87-86-5 is listed as a Hazardous Substance under the CWA. CAS# 91-20-3 is listed as a Hazardous Substance under the CWA. CAS# 120-12-7 is listed as a Priority Pollutant under the Clean Water Act. CAS# 129-00-0 is listed as a Priority Pollutant under the Clean Water Act. CAS# 205-99-2 is listed as a Priority Pollutant under the Clean Water Act. CAS# 206-44-0 is listed as a Priority Pollutant under the Clean Water Act. CAS# 208-96-8 is listed as a Priority Pollutant under the Clean Water Act. CAS# 218-01-9 is listed as a Priority Pollutant under the Clean Water Act.

CAS# 50-32-8 is listed as a Priority Pollutant under the Clean Water Act. CAS# 56-55-3 is listed as a Priority Pollutant under the Clean Water Act. CAS# 83-32-9 is listed as a Priority Pollutant under the Clean Water Act. CAS# 85-01-8 is listed as a Priority Pollutant under the Clean Water Act. CAS# 86-73-7 is listed as a Priority Pollutant under the Clean Water Act. CAS# 87-86-5 is listed as a Priority Pollutant under the Clean Water Act. CAS# 91-20-3 is listed as a Priority Pollutant under the Clean Water Act. CAS# 206-44-0 is listed as a Toxic Pollutant under the Clean Water Act. CAS# 83-32-9 is listed as a Toxic Pollutant under the Clean Water Act. CAS# 87-86-5 is listed as a Toxic Pollutant under the Clean Water Act. CAS# 91-20-3 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 120-12-7 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, (listed as Coal tar pitches), Massachusetts.

CAS# 129-00-0 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, (listed as Coal tar pitches), Massachusetts.

CAS# 132-64-9 can be found on the following state right to know lists: New Jersey, Pennsylvania,

Massachusetts.

CAS# 205-99-2 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 206-44-0 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.

CAS# 208-96-8 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts.

CAS# 218-01-9 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 50-32-8 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 56-55-3 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 83-32-9 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.

CAS# 85-01-8 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, (listed as Coal tar pitches), Massachusetts.

CAS# 86-73-7 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts.

CAS# 87-86-5 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 91-20-3 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 91-57-6 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

WARNING: This product contains Benzo(b)fluoranthene, a chemical known to the state of California to cause cancer. WARNING: This product contains 1,2-benzphenanthrene, a chemical known to the state of California to cause cancer. WARNING: This product contains Benzo(a)pyrene, a chemical known to the state of California to cause cancer. WARNING: This product contains 1,2-Benzanthracene, a chemical known to the state of California to cause cancer. WARNING: This product contains Pentachlorophenol, a chemical known to the state of California to cause cancer. WARNING: This product contains Naphthalene, a chemical known to the state of California to cause cancer.

California No Significant Risk Level: CAS# 205-99-2: 0.096 æg/day NSRL (oral) CAS# 218-01-9: 0.35 æg/day NSRL (oral) CAS# 50-32-8: 0.06 æg/day NSRL CAS# 56-55-3: 0.033 æg/day NSRL (oral) CAS# 87-86-5: 40 æg/day NSRL CAS# 91-20-3: 5.8 æg/day NSRL

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 120-12-7: 2
CAS# 129-00-0: No information available.
CAS# 132-64-9: No information available.
CAS# 205-99-2: No information available.
CAS# 206-44-0: No information available.
CAS# 208-96-8: No information available.
CAS# 218-01-9: No information available.
CAS# 50-32-8: No information available.
CAS# 56-55-3: No information available.
CAS# 83-32-9: No information available.
CAS# 85-01-8: No information available.
CAS# 86-73-7: No information available.
CAS# 87-86-5: 3
CAS# 91-20-3: 2

CAS# 91-57-6: No information available.

Canada - DSL/NDSL

CAS# 120-12-7 is listed on Canada's DSL List.
CAS# 129-00-0 is listed on Canada's DSL List.
CAS# 132-64-9 is listed on Canada's DSL List.
CAS# 218-01-9 is listed on Canada's DSL List.
CAS# 50-32-8 is listed on Canada's DSL List.
CAS# 83-32-9 is listed on Canada's DSL List.
CAS# 85-01-8 is listed on Canada's DSL List.
CAS# 86-73-7 is listed on Canada's DSL List.
CAS# 87-86-5 is listed on Canada's DSL List.
CAS# 91-20-3 is listed on Canada's DSL List.
CAS# 91-57-6 is listed on Canada's DSL List.
CAS# 206-44-0 is listed on Canada's NDSL List.
CAS# 208-96-8 is listed on Canada's NDSL List.
CAS# 56-55-3 is listed on Canada's NDSL List.

Canada - WHMIS

This product has a WHMIS classification of D2A.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

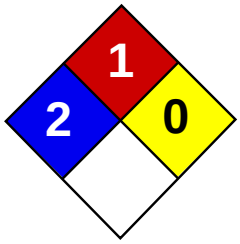
Canadian Ingredient Disclosure List

CAS# 120-12-7 is listed on the Canadian Ingredient Disclosure List.
CAS# 129-00-0 is listed on the Canadian Ingredient Disclosure List.
CAS# 205-99-2 is listed on the Canadian Ingredient Disclosure List.
CAS# 206-44-0 is listed on the Canadian Ingredient Disclosure List.
CAS# 208-96-8 is not listed on the Canadian Ingredient Disclosure List.
CAS# 218-01-9 is listed on the Canadian Ingredient Disclosure List.
CAS# 50-32-8 is listed on the Canadian Ingredient Disclosure List.
CAS# 56-55-3 is listed on the Canadian Ingredient Disclosure List.
CAS# 83-32-9 is listed on the Canadian Ingredient Disclosure List.
CAS# 85-01-8 is listed on the Canadian Ingredient Disclosure List.
CAS# 86-73-7 is not listed on the Canadian Ingredient Disclosure List.
CAS# 87-86-5 is not listed on the Canadian Ingredient Disclosure List.
CAS# 91-20-3 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 9/02/1997
Revision #5 Date: 11/20/2008

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.



Health	2
Fire	1
Reactivity	0
Personal Protection	E

Material Safety Data Sheet
Chromium MSDS

Section 1: Chemical Product and Company Identification

Product Name: Chromium

Catalog Codes: SLC4711, SLC3709

CAS#: 7440-47-3

RTECS: GB4200000

TSCA: TSCA 8(b) inventory: Chromium

CI#: Not applicable.

Synonym: Chromium metal; Chrome; Chromium Metal Chips 2" and finer

Chemical Name: Chromium

Chemical Formula: Cr

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Chromium	7440-47-3	100

Toxicological Data on Ingredients: Chromium LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of ingestion.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, lungs, liver, upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact:
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: 580°C (1076°F)

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Some metallic oxides.

Fire Hazards in Presence of Various Substances:
Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards:
Moderate fire hazard when it is in the form of a dust (powder) and burns rapidly when heated in flame. Chromium is attacked vigorously by fused potassium chlorate producing vivid incandescence. Pyrophoric chromium unites with nitric oxide with incandescence. Incandescent reaction with nitrogen oxide or sulfur dioxide.

Special Remarks on Explosion Hazards:
Powdered Chromium metal +fused ammonium nitrate may react violently or explosively. Powdered Chromium will explode spontaneously in air.

Section 6: Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:
Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 0.5 (mg/m3) from ACGIH (TLV) [United States] TWA: 1 (mg/m3) from OSHA (PEL) [United States] TWA: 0.5 (mg/m3) from NIOSH [United States] TWA: 0.5 (mg/m3) [United Kingdom (UK)] TWA: 0.5 (mg/m3) [Canada]Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Metal solid.)

Odor: Odorless.

Taste: Not available.

Molecular Weight: 52 g/mole

Color: Silver-white to Grey.

pH (1% soln/water): Not applicable.

Boiling Point: 2642°C (4787.6°F)

Melting Point: 1900°C (3452°F) +/- !0 deg. C

Critical Temperature: Not available.

Specific Gravity: 7.14 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility:
Insoluble in cold water, hot water. Soluble in acids (except Nitric), and strong alkalies.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, acids, alkalis.

Corrosivity: Not available.

Special Remarks on Reactivity:
Incompatible with molten Lithium at 180 deg. C, hydrogen peroxide, hydrochloric acid, sulfuric acid, most caustic alkalies and alkali carbonates, potassium chlorate, sulfur dioxide, nitrogen oxide, bromine pentafluoride. It may react violently or ignite with bromine pentafluoride. Chromium is rapidly attacked by fused sodium hydroxide + potassium nitrate. Potentially hazardous incompatibility with strong oxidizers.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals:
LD50: Not available. LC50: Not available.

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC. May cause damage to the following organs: kidneys, lungs, liver, upper respiratory tract.

Other Toxic Effects on Humans:
Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of ingestion.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:
May cause cancer based on animal data. There is no evidence that exposure to trivalent chromium causes cancer in man.

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: May cause skin irritation. Eyes: May cause mechanical eye irritation. Inhalation: May cause irritation of the respiratory tract and mucous membranes of the respiratory tract. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. Chronic Potential Health Effects: Inhalation: The effects of chronic exposure include irritation , sneezing, reddness of the throat, bronchospasm, asthma, cough, polyps, chronic inflammation, emphysema, chronic bronchitis, pharyngitis, bronchopneumonia, pneumoconoisis. Effects on the nose from chronic chromium exposure include irritation, ulceration, and perforation of the nasal septum. Inflammation and ulceration of the larynx may also occur. Ingestion or Inhalation: Chronic exposure may cause liver and kidney damage.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations:
Connecticut hazardous material survey.: Chromium Illinois toxic substances disclosure to employee act: Chromium Illinois chemical safety act: Chromium New York release reporting list: Chromium Rhode Island RTK hazardous substances: Chromium Pennsylvania RTK: Chromium Minnesota: Chromium Michigan critical material: Chromium Massachusetts RTK: Chromium Massachusetts spill list: Chromium New Jersey: Chromium New Jersey spill list: Chromium Louisiana spill reporting: Chromium California Director's List of Hazardous Substances: Chromium TSCA 8(b) inventory: Chromium SARA 313 toxic chemical notification and release reporting: Chromium CERCLA: Hazardous substances.: Chromium: 5000 lbs. (2268 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):
R40- Limited evidence of carcinogenic effect S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

Section 16: Other Information

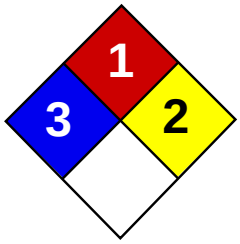
References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 08:16 PM

Last Updated: 05/21/2013 12:00 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.



Material Safety Data Sheet
Arsenic MSDS

Section 1: Chemical Product and Company Identification

Product Name: Arsenic

Catalog Codes: SLA1006

CAS#: 7440-38-2

RTECS: CG0525000

TSCA: TSCA 8(b) inventory: Arsenic

CI#: Not applicable.

Synonym:

Chemical Name: Arsenic

Chemical Formula: As

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Arsenic	7440-38-2	100

Toxicological Data on Ingredients: Arsenic: ORAL (LD50): Acute: 763 mg/kg [Rat]. 145 mg/kg [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant).

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to kidneys, lungs, the nervous system, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Some metallic oxides.

Fire Hazards in Presence of Various Substances: Flammable in presence of open flames and sparks, of heat, of oxidizing materials.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards:
Material in powder form, capable of creating a dust explosion. When heated to decomposition it emits highly toxic fumes.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable

protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, moisture.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 0.01 from ACGIH (TLV) [United States] [1995] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Lustrous solid.)

Odor: Not available.

Taste: Not available.

Molecular Weight: 74.92 g/mole

Color: Silvery.

pH (1% soln/water): Not applicable.

Boiling Point: Not available.

Melting Point: Sublimation temperature: 615°C (1139°F)

Critical Temperature: Not available.

Specific Gravity: 5.72 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water, hot water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Reactive with oxidizing agents, acids, moisture.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 145 mg/kg [Mouse].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH. Causes damage to the following organs: kidneys, lungs, the nervous system, mucous membranes.

Other Toxic Effects on Humans:
Very hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are as toxic as the original product.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: CLASS 6.1: Poisonous material.

Identification: : Arsenic UNNA: UN1558 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Arsenic California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Arsenic Pennsylvania RTK: Arsenic Massachusetts RTK: Arsenic TSCA 8(b) inventory: Arsenic

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada):
CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):
R22- Harmful if swallowed. R45- May cause cancer.

HMIS (U.S.A.):

Health Hazard: 3

Fire Hazard: 1

Reactivity: 2

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 3

Flammability: 1

Reactivity: 2

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Section 16: Other Information

References:
-Hawley, G.G.. The Condensed Chemical Dictionary, 11e ed., New York N.Y., Van Nostrand Reinold, 1987. -Liste des produits purs tératogènes, mutagènes, cancérogènes. Répertoire toxicologique de la Commission de la Santé et de la Sécurité du Travail du Québec. -Material safety data sheet emitted by: la Commission de la Santé et de la Sécurité du Travail du Québec. -SAX, N.I. Dangerous Properties of Indutrial Materials. Toronto, Van Nostrand Reinold, 6e ed. 1984. -The Sigma-Aldrich Library of Chemical Safety Data, Edition II. -Guide de la loi et du règlement sur le transport des marchandises dangeureuses au canada. Centre de conformité internatinal Ltée. 1986.

Other Special Considerations: Not available.

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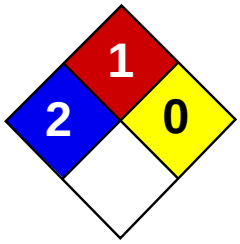

Material Safety Data Sheet
Antimony MSDS

Section 1: Chemical Product and Company Identification

Product Name: Antimony

Catalog Codes: SLA1453, SLA4462

CAS#: 7440-36-0

RTECS: CC4025000

TSCA: TSCA 8(b) inventory: Antimony

CI#: Not available.

Synonym: Stibium

Chemical Name: Not available.

Chemical Formula: Sb

Contact Information:

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Antimony	7440-36-0	100

Toxicological Data on Ingredients: Antimony: ORAL (LD50): Acute: 7000 mg/kg [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to blood, kidneys, lungs, the nervous system, liver, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact:
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Some metallic oxides.

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In

case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:
Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 0.5 Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

Odor: Not available.

Taste: Not available.

Molecular Weight: 121.75 g/mole

Color: Not available.

pH (1% soln/water): Not applicable.

Boiling Point: 1635°C (2975°F)

Melting Point: 630°C (1166°F)

Critical Temperature: Not available.

Specific Gravity: 6.691 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 7000 mg/kg [Rat].

Chronic Effects on Humans: Causes damage to the following organs: blood, kidneys, lungs, the nervous system, liver, mucous membranes.

Other Toxic Effects on Humans:
Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Human: passes through the placenta, excreted in maternal milk.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: CLASS 6.1: Poisonous material.

Identification: : Antimony powder UNNA: UN2871 PG: III

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
Pennsylvania RTK: Antimony Massachusetts RTK: Antimony TSCA 8(b) inventory: Antimony

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada):
CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC): R36/38- Irritating to eyes and skin.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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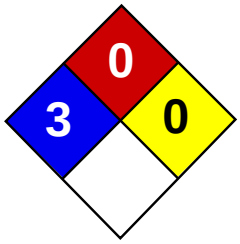

Material Safety Data Sheet
Mercury MSDS

Section 1: Chemical Product and Company Identification

Product Name: Mercury

Catalog Codes: SLM3505, SLM1363

CAS#: 7439-97-6

RTECS: OV4550000

TSCA: TSCA 8(b) inventory: Mercury

CI#: Not applicable.

Synonym: Quick Silver; Colloidal Mercury; Metallic Mercury; Liquid Silver; Hydragyrum

Chemical Name: Mercury

Chemical Formula: Hg

Contact Information:

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Mercury	7439-97-6	100

Toxicological Data on Ingredients: Mercury LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (corrosive, permeator). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:
Hazardous in case of skin contact (permeator). CARCINOGENIC EFFECTS: Classified A5 (Not suspected for human.) by ACGIH. 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to blood, kidneys, liver, brain, peripheral nervous system, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation.

Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention immediately.

Skin Contact:
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards:
When thrown into mercury vapor, boron phosphodiiodide ignites at once. Flame forms with chlorine jet over mercury surface at 200 deg to 300 deg C. Mercury undergoes hazardous reactions in the presence of heat and sparks or ignition.

Special Remarks on Explosion Hazards:
A violent exothermic reaction or possible explosion occurs when mercury comes in contact with lithium and rubidium. CHLORINE DIOXIDE & LIQUID HG, WHEN MIXED, EXPLODE VIOLENTLY. Mercury and Ammonia can produce an

explosive compound. A mixture of the dry carbonyl and oxygen will explode on vigorous shaking with mercury. Methyl azide in the presence of mercury was shown to be potentially explosive.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Corrosive liquid. Poisonous liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up.. Keep container dry. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, metals.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 0.025 from ACGIH (TLV) [United States] SKIN TWA: 0.05 CEIL: 0.1 (mg/m3) from OSHA (PEL) [United States] Inhalation TWA: 0.025 (mg/m3) [United Kingdom (UK)] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid. (Heavy liquid)

Odor: Odorless.

Taste: Not available.

Molecular Weight: 200.59 g/mole

Color: Silver-white

pH (1% soln/water): Not available.

Boiling Point: 356.73°C (674.1°F)

Melting Point: -38.87°C (-38°F)

Critical Temperature: 1462°C (2663.6°F)

Specific Gravity: 13.55 (Water = 1)

Vapor Pressure: Not available.

Vapor Density: 6.93 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Very slightly soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, metals.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:
Ground mixtures of sodium carbide and mercury, aluminum, lead, or iron can react vigorously. A violent exothermic reaction or possible explosion occurs when mercury comes in contact with lithium and rubidium. Incompatible with boron diiodophosphide; ethylene oxide; metal oxides, metals(aluminum, potassium, lithium, sodium, rubidium); methyl azide; methylsilane, oxygen; oxidants(bromine, peroxyformic acid, chlorine dioxide, nitric acid, tetracarbonynickel, nitromethane, silver perchlorate, chlorates, sulfuric acid, nitrates,); tetracarbonylnickel, oxygen, acetylinic compounds, ammonia, ethylene oxide, methylsiliane, calcium,

Special Remarks on Corrosivity:
The high mobility and tendency to dispersion exhibited by mercury, and the ease with which it forms alloys (amalga) with many laboratory and electrical contact metals, can cause severe corrosion problems in laboratories. Special precautions: Mercury can attack copper and copper alloy materials.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
LD50: Not available. LC50: Not available.

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified A5 (Not suspected for human.) by ACGIH. 3 (Not classifiable for human.) by IARC. May cause damage to the following organs: blood, kidneys, liver, brain, peripheral nervous system, central nervous system (CNS).

Other Toxic Effects on Humans:
Very hazardous in case of skin contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (corrosive, permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

May affect genetic material. May cause cancer based on animal data. Passes through the placental barrier in animal. May cause adverse reproductive effects(paternal effects- spermatogenesis; effects on fertility - fetotoxicity, post-implantation mortality), and birth defects.

Special Remarks on other Toxic Effects on Humans:

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Class 8: Corrosive material

Identification: : Mercury UNNA: 2809 PG: III

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Mercury California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Mercury Connecticut hazardous material survey.: Mercury Illinois toxic substances disclosure to employee act: Mercury Illinois chemical safety act: Mercury New York acutely hazardous substances: Mercury Rhode Island RTK hazardous substances: Mercury Pennsylvania RTK: Mercury Minnesota: Mercury Massachusetts RTK: Mercury New Jersey: Mercury New Jersey spill list: Mercury Louisiana spill reporting: Mercury California Director's List of Hazardous Substances.: Mercury TSCA 8(b) inventory: Mercury SARA 313 toxic chemical notification and release reporting: Mercury CERCLA: Hazardous substances.: Mercury: 1 lbs. (0.4536 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive liquid.

DSCL (EEC):
R23- Toxic by inhalation. R33- Danger of cumulative effects. R38- Irritating to skin. R41- Risk of serious damage to eyes. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. S2- Keep out of the

reach of children. S7- Keep container tightly closed. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39- Wear eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S46- If swallowed, seek medical advice immediately and show this container or label. S60- This material and its container must be disposed of as hazardous waste. S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

HMIS (U.S.A.):

Health Hazard: 3

Fire Hazard: 0

Reactivity: 0

Personal Protection:

National Fire Protection Association (U.S.A.):

Health: 3

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Face shield.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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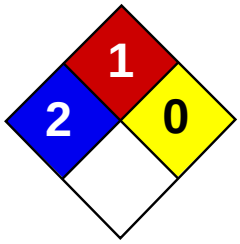

Material Safety Data Sheet
Selenium MSDS

Section 1: Chemical Product and Company Identification

Product Name: Selenium

Catalog Codes: SLS2629

CAS#: 7782-49-2

RTECS: VS7700000

TSCA: TSCA 8(b) inventory: Selenium

CI#: Not available.

Synonym:

Chemical Name: Not available.

Chemical Formula: Se

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Selenium	7782-49-2	100

Toxicological Data on Ingredients: Selenium: ORAL (LD50): Acute: 6700 mg/kg [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact: Not available.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Material in powder form, capable of creating a dust explosion.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Avoid contact with eyes Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label.

Storage:
Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:
Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 0.2 (mg/m3) Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Solid metallic powder.)

Odor: Odorless.

Taste: Not available.

Molecular Weight: 78.96 g/mole

Color: Not available.

pH (1% soln/water): Not applicable.

Boiling Point: 684.9°C (1264.8°F)

Melting Point: 217°C (422.6°F)

Critical Temperature: Not available.

Specific Gravity: 4.81 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 6700 mg/kg [Rat].

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans:
Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Passes through the placental barrier in animal. Excreted in maternal milk in human.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: CLASS 6.1: Poisonous material.

Identification: : Selenium powder : UN2658 PG: III

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
Pennsylvania RTK: Selenium Massachusetts RTK: Selenium TSCA 8(b) inventory: Selenium SARA 313 toxic chemical notification and release reporting: Selenium CERCLA: Hazardous substances.: Selenium

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).

DSCL (EEC): R36- Irritating to eyes.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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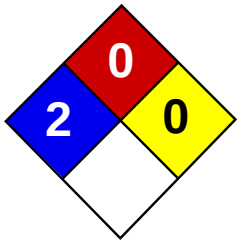

Health	2
Fire	0
Reactivity	0
Personal Protection	G

Material Safety Data Sheet
Tetrachloroethylene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Tetrachloroethylene

Catalog Codes: SLT3220

CAS#: 127-18-4

RTECS: KX3850000

TSCA: TSCA 8(b) inventory: Tetrachloroethylene

CI#: Not available.

Synonym: Perchloroethylene; 1,1,2,2-Tetrachloroethylene; Carbon bichloride; Carbon dichloride; Ankilostin; Didakene; Dilatin PT; Ethene, tetrachloro-; Ethylene tetrachloride; Perawin; Perchlor; Perclene; Perclene D; Percosolvel; Tetrachloroethene; Tetraleno; Tetralex; Tetravec; Tetroguer; Tetropil

Chemical Name: Ethylene, tetrachloro-

Chemical Formula: C2-Cl4

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Tetrachloroethylene	127-18-4	100

Toxicological Data on Ingredients: Tetrachloroethylene: ORAL (LD50): Acute: 2629 mg/kg [Rat]. DERMAL (LD): Acute: >3228 mg/kg [Rabbit]. MIST(LC50): Acute: 34200 mg/m 8 hours [Rat]. VAPOR (LC50): Acute: 5200 ppm 4 hours [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator), of eye contact (irritant), of ingestion.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH. Classified 2A (Probable for human.) by IARC, 2 (anticipated carcinogen) by NTP. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, liver, peripheral nervous system, respiratory tract, skin, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact:
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Absorb with an inert material and put the spilled material in an appropriate waste disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with skin. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, metals, acids, alkalis.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal Protection:
Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 25 (ppm) from OSHA (PEL) [United States] TWA: 25 STEL: 100 (ppm) from ACGIH (TLV) [United States] TWA: 170 (mg/m3) from OSHA (PEL) [United States] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Ethereal.

Taste: Not available.

Molecular Weight: 165.83 g/mole

Color: Clear Colorless.

pH (1% soln/water): Not available.

Boiling Point: 121.3°C (250.3°F)

Melting Point: -22.3°C (-8.1°F)

Critical Temperature: 347.1°C (656.8°F)

Specific Gravity: 1.6227 (Water = 1)

Vapor Pressure: 1.7 kPa (@ 20°C)

Vapor Density: 5.7 (Air = 1)

Volatility: Not available.

Odor Threshold: 5 - 50 ppm

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 3.4

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility:
Miscible with alcohol, ether, chloroform, benzene, hexane. It dissolves in most of the fixed and volatile oils. Solubility in water: 0.015 g/100 ml @ 25 deg. C It slowly decomposes in water to yield Trichloroacetic and Hydrochloric acids.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, metals, acids, alkalis.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:
Oxidized by strong oxidizing agents. Incompatible with sodium hydroxide, finely divided or powdered metals such as zinc, aluminum, magnesium, potassium, chemically active metals such as lithium, beryllium , barium. Protect from light.

Special Remarks on Corrosivity: Slowly corrodes aluminum, iron, and zinc.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 2629 mg/kg [Rat]. Acute dermal toxicity (LD50): >3228 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 5200 4 hours [Mouse].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH. Classified 2A (Probable for human.) by IARC, 2 (Some evidence.) by NTP. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: kidneys, liver, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS).

Other Toxic Effects on Humans:
Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator), of ingestion.

Special Remarks on Toxicity to Animals:
Lowest Publishe Lethal Dose/Conc: LDL [Rabbit] - Route: Oral; Dose: 5000 mg/kg LDL [Dog] - Route: Oral; Dose: 4000 mg/kg LDL [Cat] - Route: Oral; Dose: 4000 mg/kg

Special Remarks on Chronic Effects on Humans:
May cause adverse reproductive effects and birth defects(teratogenic). May affect genetic material (mutagenic). May cause cancer.

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: Causes skin irritation with possible dermal blistering or burns. Symtoms may include redness, itching, pain, and possible dermal blistering or burns. It may be absorbed through the skin with possible systemic effects. A single prolonged skin exposure is not likely to result in the material being absorbed in harmful amounts. Eyes: Contact causes transient eye irritation, lacrimation. Vapors cause eye/conjunctival irritation. Symptoms may include redness and pain. Inhalation: The main route to occupational exposure is by inhalation since it is readily absorbed through the lungs. It causes respiratory tract irritation, . It can affect behavior/central nervous system (CNS depressant and anesthesia ranging from slight inebriation to death, vertigo, somnolence, anxiety, headache, excitement, hallucinations, muscle incoordination, dizziness, lightheadness, disorentiation, seizures, enotional instability, stupor, coma). It may cause pulmonary edema Ingestion: It can cause nausea, vomiting, anorexia, diarrhea, bloody stool. It may affect the liver, urinary system (proteinuria, hematuria, renal failure, renal tubular disorder), heart (arrhythmias). It may affect behavior/central nervous system with symptoms similar to that of inhalation. Chronic Potential Health Effects: Skin: Prolonged or repeated skin contact may result in excessive drying of the skin, and irritation. Ingestion/Inhalation: Chronic exposure can affect the liver(hepatitis,fatty liver degeneration), kidneys, spleen, and heart (irregular heartbeat/arrhythmias, cardiomyopathy, abnormal EEG), brain, behavior/ central nervous system/peripheral nervous system (impaired memory, numbness of extremeties, peripheral neuropathy and other

Section 12: Ecological Information

Ecotoxicity:
Ecotoxicity in water (LC50): 18.4 mg/l 96 hours [Fish (Fatthead Minnow)]. 18 mg/l 48 hours [Daphnia (daphnia)]. 5 mg/l 96 hours [Fish (Rainbow Trout)]. 13 mg/l 96 hours [Fish (Bluegill sunfish)].

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 6.1: Poisonous material.

Identification: : Tetrachloroethylene UNNA: 1897 PG: III

Special Provisions for Transport: Marine Pollutant

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Tetrachloroethylene California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Tetrachloroethylene Connecticut hazardous material survey.: Tetrachloroethylene Illinois toxic substances disclosure to employee act: Tetrachloroethylene Illinois chemical safety act: Tetrachloroethylene New York release reporting list: Tetrachloroethylene Rhode Island RTK hazardous substances: Tetrachloroethylene Pennsylvania RTK: Tetrachloroethylene Minnesota: Tetrachloroethylene Michigan critical material: Tetrachloroethylene Massachusetts RTK: Tetrachloroethylene Massachusetts spill list: Tetrachloroethylene New Jersey: Tetrachloroethylene New Jersey spill list: Tetrachloroethylene Louisiana spill reporting: Tetrachloroethylene California Director's List of Hazardous Substances: Tetrachloroethylene TSCA 8(b) inventory: Tetrachloroethylene TSCA 8(d) H and S data reporting: Tetrachloroethylene: Effective date: 6/1/87; Sunset date: 6/1/97 SARA 313 toxic chemical notification and release reporting: Tetrachloroethylene CERCLA: Hazardous substances.: Tetrachloroethylene: 100 lbs. (45.36 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):
R40- Possible risks of irreversible effects. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. S23- Do not breathe gas/fumes/vapour/spray S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37- Wear suitable gloves. S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Personal Protection: g

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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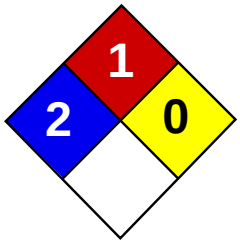

Material Safety Data Sheet
Trichloroethylene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Trichloroethylene

Catalog Codes: SLT3310, SLT2590

CAS#: 79-01-6

RTECS: KX4560000

TSCA: TSCA 8(b) inventory: Trichloroethylene

CI#: Not available.

Synonym:

Chemical Formula: C2HCl3

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Trichloroethylene	79-01-6	100

Toxicological Data on Ingredients: Trichloroethylene: ORAL (LD50): Acute: 5650 mg/kg [Rat]. 2402 mg/kg [Mouse]. DERMAL (LD50): Acute: 20001 mg/kg [Rabbit].

Section 3: Hazards Identification

Potential Acute Health Effects: Hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Classified + (PROVEN) by OSHA. Classified A5 (Not suspected for human.) by ACGIH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to kidneys, the nervous system, liver, heart, upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: 420°C (788°F)

Flash Points: Not available.

Flammable Limits: LOWER: 8% UPPER: 10.5%

Products of Combustion: These products are carbon oxides (CO, CO2), halogenated compounds.

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Absorb with an inert material and put the spilled material in an appropriate waste disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/

spray. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage:
Keep container dry. Keep in a cool place. Ground all equipment containing material. Carcinogenic, teratogenic or mutagenic materials should be stored in a separate locked safety storage cabinet or room.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 50 STEL: 200 (ppm) from ACGIH (TLV) TWA: 269 STEL: 1070 (mg/m3) from ACGIH Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Not available.

Taste: Not available.

Molecular Weight: 131.39 g/mole

Color: Clear Colorless.

pH (1% soln/water): Not available.

Boiling Point: 86.7°C (188.1°F)

Melting Point: -87.1°C (-124.8°F)

Critical Temperature: Not available.

Specific Gravity: 1.4649 (Water = 1)

Vapor Pressure: 58 mm of Hg (@ 20°C)

Vapor Density: 4.53 (Air = 1)

Volatility: Not available.

Odor Threshold: 20 ppm

Water/Oil Dist. Coeff.: The product is equally soluble in oil and water; log(oil/water) = 0

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, methanol, diethyl ether, acetone.

Solubility:
Easily soluble in methanol, diethyl ether, acetone. Very slightly soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity:
Extremely corrosive in presence of aluminum. Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
Acute oral toxicity (LD50): 2402 mg/kg [Mouse]. Acute dermal toxicity (LD50): 20001 mg/kg [Rabbit].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified + (PROVEN) by OSHA. Classified A5 (Not suspected for human.) by ACGIH. The substance is toxic to kidneys, the nervous system, liver, heart, upper respiratory tract.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Passes through the placental barrier in human. Detected in maternal milk in human.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: CLASS 6.1: Poisonous material.

Identification: : Trichloroethylene : UN1710 PG: III

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Trichloroethylene California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Trichloroethylene Pennsylvania RTK: Trichloroethylene Florida: Trichloroethylene Minnesota: Trichloroethylene Massachusetts RTK: Trichloroethylene New Jersey: Trichloroethylene TSCA 8(b) inventory: Trichloroethylene CERCLA: Hazardous substances.: Trichloroethylene

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada):
CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC):
R36/38- Irritating to eyes and skin. R45- May cause cancer.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 08:54 PM

Last Updated: 05/21/2013 12:00 PM

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Appendix I
Quality Assurance Project Plan

Site Identification:
AVANT GARDNER
140 Stewart Avenue & 111 Gardner Avenue
Brooklyn, Kings County, New York
NYSDEC Site No. C224258

The scope and objective of this project has been delineation and remediation of soil and groundwater above the applicable standards and/or criteria previously identified onsite.

The people responsible for the coordination and oversight of this project are as follows:

Role	Personnel	Phone Number
Overall Project Coordination	David Lent	732-380-1700
Sampling Activities	Partner Field Representatives	732-380-1700
Laboratory Activities	Alpha Analytical	732-549-3900
Data Validation Activities	Alpha Geoscience – Donald Anné	518-348-6995

Applicable resumes for the Partner staff are included as **Attachment A**. The resume for Donald Anné, third party data validator, is included as **Attachment B**.

Alpha Analytical has analyzed the soil, groundwater, and soil vapor samples collected from the site. The analytical laboratory is responsible for providing analytical services, including laboratory quality assurance and quality control activities. The laboratory is capable of analyzing the samples and producing a data report in a manner consistent with the guidelines and requirements of the NYSDEC DER-10/Technical Guidance. The samples have been analyzed for the parameters listed in **Table 1** of this report, as required. **Table 1** also includes the method name, number, and source for each analysis to be performed. **Table 2** includes the quality assurance/quality controls samples to be collected. A site map showing sample locations is included as **Figure 1**.

Alpha Analytical (Alpha), a state-certified laboratory [NY NELAP certificate number 11148] in the City of Westborough, Massachusetts.

<u>Soil Sampling Methodology</u>

All sample collection activities will be conducted so as to obtain reliable information regarding subsurface conditions and representative soil samples for analysis. A qualified field representative will implement all sampling at the site.

Prior to sampling, the field representative will collect site plans, directions to the site, and keys for wells/site; meet with the project manager and discuss the work required: number of soil borings to be sampled, soil sampling sequence/order, sampling parameters, equipment, QA/QC samples, safety

guidelines; and contact the lab to order the jars, prepare and send the work order, check holding/handling time and arrange for the pickup of the samples.

One duplicate sample and one matrix spike/matrix spike duplicate (MS/MSD) sample will be collected at a frequency of 1 per 20 soil samples and submitted for laboratory analysis in accordance with DER-10, Section 2.3(c).

After the sample has been collected, the sample jar will be sealed with a screw cap. Blank sample labels will be supplied by the analytical laboratory and affixed to the exterior of the sample container. Sample labels will be completed using permanent markers or ink. The labels will be filled out at the time of sample collection by the field sampling personnel. The following identifying sample information will be included on the label: Client/Site; sample identification alpha-numeric code; sample collector's initials; date and time of sample collection; analytical method; and laboratory analysis to be performed.

Immediately following its collection, the sample will be placed in a cooler and kept at 4°C until its arrival at the laboratory. The procedure will then be repeated at each sample location.

Soil samples will be collected with new, dedicated plastic EnCore coring devices to avoid cross-contamination.

A field logbook of soil sampling details will be kept each time soil sampling activities are conducted. The field logbook will document the date and weather conditions on the day of sampling, objective of site visit, name of sample collector(s), time of arrival and departure at the site, field observations of sampling event, initial measurements from all soil borings (organic vapors, visual evidence of contamination, and depth to water, if present), total depth of each soil boring, and any field instrument calibration performed.

The following steps will be followed for the field decontamination of non-aqueous sampling equipment: laboratory grade glassware detergent and tap water scrub to remove visual contamination, generous tap water rinse, and distilled and deionized water rinse.

All field analytical instrumentation will be calibrated prior to use in the field each day. Each instrument will be calibrated and maintained according to the manufacturer's instructions. A calibration log will be kept for each instrument. In the event that an instrument must be re-calibrated in the field, this re-calibration will be performed only by personnel who have been trained in these calibration procedures. Specific sampling procedures for soil samples are included as **Attachment C**.

Groundwater Sampling Methodology

All sample collection activities will be conducted so as to obtain reliable information regarding subsurface conditions and representative groundwater samples for analysis. A qualified field representative will implement all sampling at the site.

Prior to sampling, the field representative will collect site plans, directions to the site, and keys for

wells/site; meet with the project manager and discuss the work required: number of monitoring wells to be sampled, groundwater sampling sequence/order, sampling parameters, equipment, QA/QC samples, safety guidelines; and contact the lab to order the jars, prepare and send the work order, check holding/handling time and arrange for the pickup of the samples.

One duplicate sample and one MS/MSD sample will be collected at a frequency of 1 per 20 groundwater samples and submitted for laboratory analysis in accordance with DER-10, Section 2.3(c).

A PID will be used to measure the well headspace immediately upon opening the well lid. Water level measurements will be collected from each monitoring well using an electronic water level indicator at the survey's mark on the inner casing, and the total depth of each well will also be recorded.

A submersible pump and control box and polyethylene tubing will be used to sample the wells using the following low flow sampling procedures:

- Place the pump intake at or near the middle of the well screen.
- Measure the water level with the pump in the well. Leave the water level measuring device in the well.
- Start pumping the well at 200 to 500 ml/min.
- Monitor and record the field indicator parameters (turbidity, temperature, specific conductance, pH, DO and Eh) every 5 minutes.
- Check pH with pH 7 standard solution after 3 hours. Recalibrate Horiba if reading is off by +/- 0.2 pH units. Record calibration data.
- Monitor and record the water level every 5 minutes (drawdown of 0.3 ft or less)

Groundwater samples will not be collected until the following indicator parameters have stabilized for three consecutive readings:

- +0.1 for pH
- +3% for specific conductance
- +10 mV for redox potential
- +10% for DO and turbidity

Once stabilized, groundwater samples will be collected from the tubing directly into sample containers with minimal turbulence. After the sample has been collected, the sample jar will be tightly sealed. Blank sample labels will be supplied by the analytical laboratory and affixed to the exterior of the sample container. Sample labels will be completed using permanent markers or ink. The labels will be filled out at the time of sample collection by the field sampling personnel. The following identifying sample information will be included on the label: Client/Site; sample identification alpha-numeric code; sample collector's initials; date and time of sample collection; analytical method; and laboratory analysis to be performed.

Immediately following its collection, the sample will be placed in a cooler and kept at 4°C until its arrival at the laboratory. The procedure will then be repeated at each sample location.

A field logbook of groundwater sampling details will be kept each time groundwater sampling activities are conducted. The field logbook will document the date and weather conditions on the day of sampling, objective of site visit, name of sample collector(s), time of arrival and departure at the site, field observations of sampling event, initial measurements from all monitoring wells, and any field instrument calibration performed. In addition, Groundwater Sampling Sheets will be completed for each groundwater sampling event.

All field analytical instrumentation will be calibrated prior to use in the field each day. Each instrument will be calibrated and maintained according to the manufacturer's instructions. A calibration log will be kept for each instrument. In the event that an instrument must be re-calibrated in the field, this re-calibration will be performed only by personnel who have been trained in these calibration procedures. Specific sampling procedures for groundwater samples are included as **Attachment C**.

Emerging Contaminants Sampling Methodology

In accordance with the updated NYSDEC Part 375 - Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) document dated April 2023, one soil sample and three groundwater samples will be collected from the site and analyzed for the complete PFAS Analyte List by EPA Method 1633. Further methodology for each matrix is summarized below:

Soil

Soil samples to be analyzed for PFAS will be collected using NYSDEC-approved high-density polyethylene (HDPE) materials. No sampling equipment components or sample containers will come into contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE) materials. Prior to sampling, sampling equipment will be decontaminated using detergent and clean, PFAS-free water.

Soil samples will be collected using pre-cleaned stainless-steel equipment or a pre-cleaned hand auger and shovel. Following collection, the soil sample will be deposited into a stainless-steel bowl and thoroughly mixed until the material is homogenized, then placed into the laboratory-provided container. Immediately following its collection, the sample will be placed in a cooler with regular ice and kept at 4°C until its arrival at the laboratory.

All soil samples will be labeled and field notes will be recorded in accordance with the procedures previously described in the Soil Sampling Methodology section.

Groundwater

Groundwater samples to be analyzed for PFAS will be collected using NYSDEC-approved HDPE materials. No sampling equipment components or sample containers will come into contact with aluminum foil, low density polyethylene, glass, or PTFE materials. Prior to sampling, sampling equipment will be decontaminated using detergent and clean, PFAS-free water.

Monitoring wells will be purged and groundwater samples will be collected in accordance with the

procedures previously described in the Groundwater Sampling Methodology section. Sampling personnel will don new nitrile gloves prior to PFAS sample collection due to the potential to contact PFAS containing items during the purging activities. Immediately following its collection, the sample will be placed in a cooler with regular ice and kept at 4°C until its arrival at the laboratory.

All groundwater samples will be labeled and field notes and Groundwater Sampling Sheets will be completed in accordance with the procedures previously described in the Groundwater Sampling Methodology section.

Equipment blanks will be collected at a minimum frequency of 1 per day or 1 per 20 samples, whichever is more frequent, for both soil and groundwater. Duplicates and MS/MSD samples will be collected as specified in NYSDEC DER-10, Section 2.3(c).

Further information regarding emerging contaminants sampling methodology is described in the NYSDEC Part 375 - Sampling, Analysis, and Assessment of PFAS document dated April 2023, included as **Attachment D**.

Soil and groundwater samples will be submitted to Alpha Analytical, a state-certified laboratory in the City of Westborough, Massachusetts. The minimum method-achievable reporting limits for PFAS will be less than or equal to 0.5 parts per million (ppm) for soil samples and 2 parts per trillion (ppt) for groundwater samples. The laboratory SOP for PFAS analysis and method detection limits for the PFAS Target Analyte List are included as **Attachment E**.

Chain of Custody Procedures

A COC Record will be maintained and will accompany the laboratory shuttle from the moment of the containers' dedication until the time of the analyses. A laboratory's delivery of a sample container shuttle to the sampler; therefore, requires that a COC be initiated by the authorized laboratory representative relinquishing the shuttle, and time and date of the transfer be documented.

COC forms will be placed in waterproof plastic bags and taped to the underside of the cooler lids.

After their collection and storage, the necessary field and quality assurance samples will be preserved in the shuttle until their transfer to the lab for analysis. The transfer will be accompanied by the same COC Record, which will be completed to identify the ID numbers, quantities and physical description of the samples, and the particular analyses requested. The name of the sampler who relinquished the shuttle, the time and date of the transfer, and the laboratory representative assuming responsibility for transporting the shuttle to the lab will be recorded.

Sample Storage Procedures

Immediately upon collection, samples will be placed in a cooler and maintained at 4°C until delivery to the laboratory. Samples will be submitted to the laboratory no later than 24 hours after sample collection for a one day sampling event or 48 hours if an overnight carrier is required or if the sampling event exceeds one day. The documentation for supporting the sample handling, preservation,

packaging and shipping will consist of chain-of-custody records, shipping records, and laboratory reports.

Data Quality Usability Objectives

Per the requirements of Section 2.2 of DER-10 a Category B data package and *Data Usability Summary Report* (DUSR) will be prepared by a qualified data validator who is independent of the laboratory providing the sample analysis. The DUSR will evaluate the data package provided by the laboratory to determine if they meet the data quality usability objectives and represent usable results. Specific data quality indicators include overall precision, analytical accuracy/bias (contamination), accuracy, sensitivity, and completeness.

TABLES

PSG

TABLE 1
Quality Assurance Summary

Matrix	Analytical Parameter	Method	Bottle Size	Quantity	Bottle Type	Preservation	Laboratory Holding Time
Soil	TCL VOCs	EPA 8260	5 g	3	Encore samplers	4°C	48 hours
	TCL SVOCs	EPA 8270	4 oz.	1	Glass jar w/Teflon lid	4°C	14 days
	PCBs	EPA 80802A	4 oz.	1	Glass jar w/Teflon lid	4°C	14 days
	Pesticides	EPA 8081B	4 oz.	1	Glass jar w/Teflon lid	4°C	14 days
	TAL Metals	EPA 6010	4 oz.	1	Glass jar w/Teflon lid	none	180 days
	1,4-dioxane	EPA 8270 SIM	4 oz.	1	Glass jar w/Teflon lid	4°C	14 days
	Perfluorinated Compounds	EPA 1633	4 oz.	1	HDPE	4°C	14 days
Groundwater	TCL VOCs	EPA 8260	40 mL	3	VOA vials	HCl and 4°C	14 days
	TCL SVOCs	EPA 8270	1 L	2	Amber glass	4°C	7 days
	PCBs	EPA 608	1 L	2	Amber glass	4°C	7 days
	Pesticides	EPA 608	1 L	2	Amber glass	4°C	7 days
	PFCs	EPA 537	1 L	2	Amber glass	4°C	28 days
	TAL Metals	EPA 6010	250 mL	1	HDPE	HNO3	180 days
	1,4-dioxane	EPA 8270 SIM	40 mL	3	VOA vials	HCl and 4°C	14 days
	Perfluorinated Compounds	EPA 1633	250 mL	3	HDPE	1.25g Trizma	14 days
Air (Soil Gas)	VOCs	EPA TO-15	6 L	1	Summa canister	none	30 days
	Methane	EPA 3C	6 L	1	Summa canister	none	30 days

Notes: 1 duplicate soil sample, 1 duplicate groundwater sample, one duplicate MS/MSD soil sample, and one duplicate MS/MSD groundwater sample will be collected and submitted for laboratory analysis of the full analytical suite
* Volume is in milliliters, includes number of bottles (i.e. 3 (40) = 3 x 40-mLvials).
G = Glass
GC/MS = Gas chromatography/mass spectrometry
HCl = Hydrochloric acid
HNO3 = Nitric acid
mL = Milliliters
P = Plastic
TCL = Target Compound List
VOC = Volatile Organic Compounds
SVOC = Semi-Volatile Organic Compounds
TICs = Tentatively Identified Compounds
PCBs = Polychlorinated Biphenyls
TAL = Total Analyte List

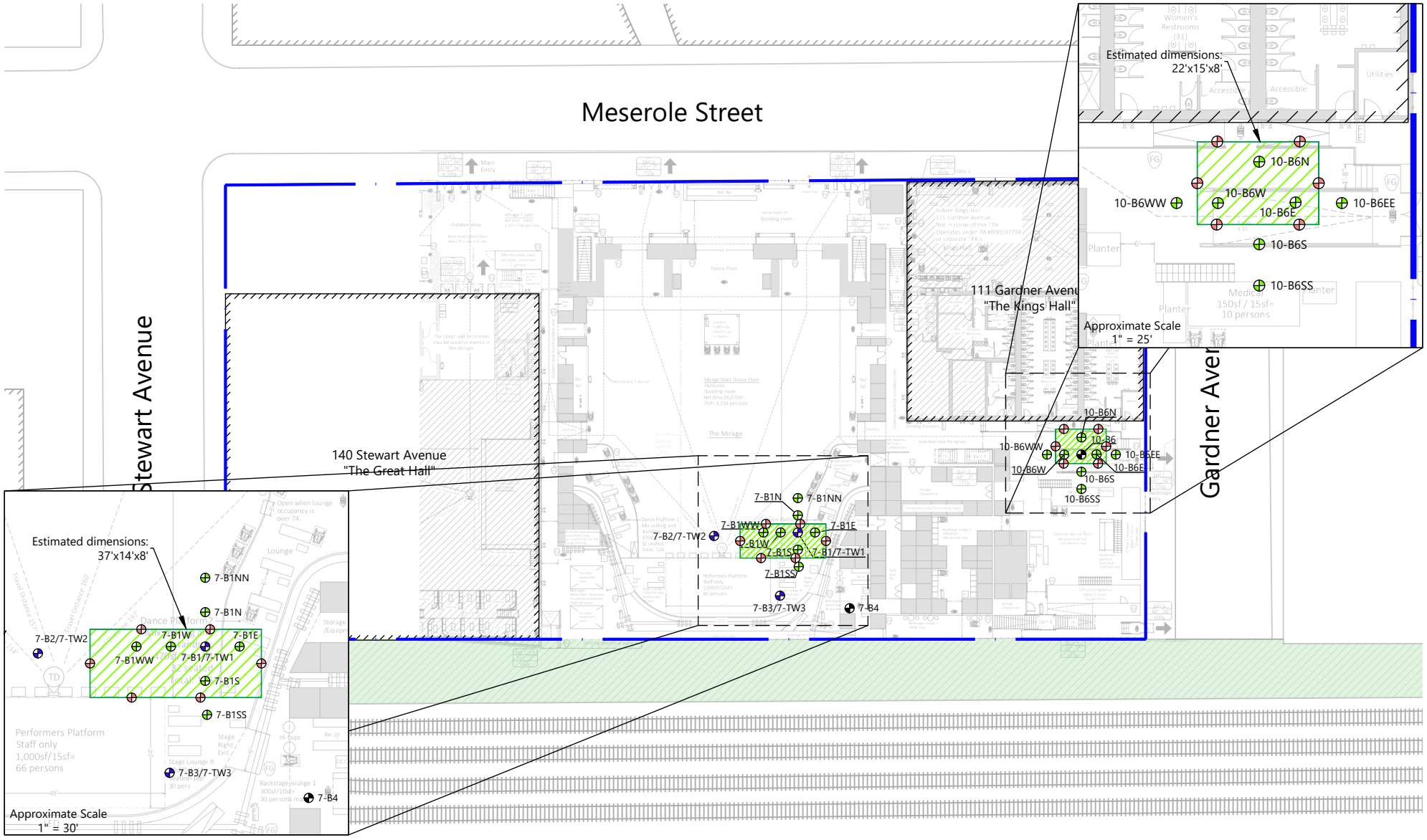
TABLE 2

Quality Assurance/Quality Control Samples
Number and Type Collected

Analytical Parameters	Sample Matrix	Quality Assurance / Quality Control Samples	
		Field Blanks	Trip Blanks
TCL VOC's + TICs	Soil	1	NR
TCL SVOC's + TICs	Soil	1	NR
TAL Metals	Soil	1	NR
PCBs	Soil	1	NR
Pesticides	Soil	1	NR
1,4-Dioxne	Soil	1	NR
PFAs	Soil	1	NR
TCL VOC's + TICs	Groundwater	1	
TCL SVOC's + TICs	Groundwater	1	NR
TAL Metals	Groundwater	1	NR
PCBs	Groundwater	1	NR
Pesticides	Groundwater	1	NR
1,4-Dioxne	Groundwater	1	NR
PFAs	Groundwater	1	NR
TO-15	Soil Vapor	NR	NR
C3	Soil Vapor	NR	NR

Notes: NR = Not Required.

FIGURES



Legend and Notes:

- Site Boundary
- Site Building
- Soil Boring Location (PSG, May 2021)
- Soil Boring Location (PSG, June 2023)
- Soil Boring/Temporary Well Loction (PSG, May 2021)
- Proposed End-Point Sample Location
- Approximate Limits of Proposed cVOC Soil Hot Spot Removal

N

30' 0' 30' 60'

Approximate Scale

Title: **AOCs 7 and 10 Estimated Limits of Proposed cVOC Soil Hot-Spot Removal**			
Figure: **1**	Prepared By: **AS**	Date: **April 2024**	Project Number: **ES22-387153**
Address: **140 Stewart Avenue and 111 Gardner Avenue Brooklyn, New York 11237**			

PSG Engineering and Geology, D.P.C.

APPENDIX A: NYSDEC PFAS SAMPLING GUIDELINES

PSG

NEW YORK STATE OF OPPORTUNITY.

Department of Environmental Conservation

SAMPLING, ANALYSIS, AND ASSESSMENT OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

Under NYSDEC's Part 375 Remedial Programs

April 2023

www.dec.ny.gov

Table of Contents

Objective 1
Applicability 1
Field Sampling Procedures 1
Analysis and Reporting 2
Routine Analysis 2
Additional Analysis 2
Data Assessment and Application to Site Cleanup 3
Water Sample Results 3
Soil Sample Results 3
Testing for Imported Soil 4
Appendix A - Quality Assurance Project Plan (QAPP) Guidelines for PFAS 5
Appendix B - Sampling Protocols for PFAS in Soils, Sediments and Solids 6
Appendix C - Sampling Protocols for PFAS in Monitoring Wells 8
Appendix D - Sampling Protocols for PFAS in Surface Water 10
Appendix E - Sampling Protocols for PFAS in Private Water Supply Wells 12
Appendix F - Sampling Protocols for PFAS in Fish 14
Appendix G - PFAS Analyte List 22
Appendix H - Data Review Guidelines for Analysis of PFAS in Non-Potable Water and Solids 24

ERRATA SHEET for

SAMPLING, ANALYSIS, AND ASSESSMENT OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) Under NYSDEC's Part 375 Remedial Programs Issued January 17, 2020

Citation and Page Number	Current Text	Corrected Text	Date
Title of Appendix I, page 32	Appendix H	Appendix I	2/25/2020
Document Cover, page 1	Guidelines for Sampling and Analysis of PFAS	Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs	9/15/2020
Data Assessment and Application to Site Cleanup Page 3	Until such time as Ambient Water Quality Standards (AWQS) and Soil Cleanup Objectives (SCOs) for PFOA and PFOS are published	Until such time as Soil Cleanup Objectives (SCOs) for PFOA and PFOS are published	3/28/2023
Water Sample Results Page 3	PFOA and PFOS should be further assessed and considered as potential contaminants of concern in groundwater or surface water if PFOA or PFOS is detected in any water sample at or above 10 ng/L (ppt) and is determined to be attributable to the site, either by a comparison of upgradient and downgradient levels, or the presence of soil source areas, as defined below.	NYSDEC has adopted ambient water quality guidance values for PFOA and PFOS. Groundwater samples should be compared to the human health criteria of 6.7 ng/l (ppt) for PFOA and 2.7 ng/l (ppt) for PFOS. These guidance values also include criteria for surface water for PFOS applicable for aquatic life, which may be applicable at some sites. Drinking water sample results should be compared to the NYS maximum contaminant level (MCL) of 10 ng/l (ppt).Analysis to determine if PFOA and PFOS concentrations are attributable to the site should include a comparison between upgradient and downgradient levels, and the presence of soil source areas, as defined below.	3/28/2023
Soil Sample Results Page 3	Soil cleanup objectives for PFOA and PFOS have been proposed in an upcoming revision to 6 NYCRR Part 375-6. Until SCOs are in effect, the following are to be used as guidance values:	NYSDEC will delay adding soil cleanup objectives for PFOA and PFOS to 6 NYCRR Part 375-6 until the PFAS rural soil background study has been completed. Until SCOs are in effect, the following are to be used as guidance values:	3/28/2023
Protection of Groundwater Page 3	PFOA (ppb) 1.1 PFOS (ppb) 3.7	PFOA (ppb) 0.8 PFOS (ppb) 1.0	3/28/2023

Citation and Page Number	Current Text	Corrected Text	Date
Footnote 2 Page 3	The movement of PFAS in the environment is being aggressively researched at this time; that research will eventually result in more accurate models for the behaviors of these chemicals. In the meantime, DEC has calculated the guidance value for the protection of groundwater using the same procedure used for all other chemicals, as described in Section 7.7 of the Technical Support Document (http://www.dec.ny.gov/docs/remediation_hudson_pdf/techsuppdoc.pdf).	The Protection of Groundwater values are based on the above referenced ambient groundwater guidance values. Details on that calculation are available in the following document, prepared for the February 2022 proposed changes to Part 375 (https://www.dec.ny.gov/docs/remediation_hudson_pdf/part375techsupport.pdf). The movement of PFAS in the environment is being aggressively researched at this time; that research will eventually result in more accurate models for the behaviors of these chemicals. In the meantime, DEC has calculated the guidance value for the protection of groundwater using the same procedure used for all other chemicals, as described in Section 7.7 of the Technical Support Document (http://www.dec.ny.gov/docs/remediation_hudson_pdf/techsuppdoc.pdf).	3/28/2023
Testing for Imported Soil Page 4	If the concentrations of PFOA and PFOS in leachate are at or above 10 ppt (the Maximum Contaminant Levels established for drinking water by the New York State Department of Health), then the soil is not acceptable.	If the concentrations of PFOA and PFOS in leachate are at or above the ambient water quality guidance values for groundwater, then the soil is not acceptable.	3/28/2023
Routine Analysis, page 9	"However, laboratories analyzing environmental samples…PFOA and PFOS in drinking water by EPA Method 537, 537.1 or ISO 25101."	"However, laboratories analyzing environmental samples…PFOA and PFOS in drinking water by EPA Method 537, 537.1, ISO 25101, or Method 533."	9/15/2020
Additional Analysis, page 9, new paragraph regarding soil parameters	None	"In cases where site-specific cleanup objectives for PFOA and PFOS are to be assessed, soil parameters, such as Total Organic Carbon (EPA Method 9060), soil pH (EPA Method 9045), clay content (percent), and cation exchange capacity (EPA Method 9081), should be included in the analysis to help evaluate factors affecting the leachability of PFAS in site soils."	9/15/2020

Citation and Page Number	Current Text	Corrected Text	Date
Data Assessment and Application to Site Cleanup Page 10	Until such time as Ambient Water Quality Standards (AWQS) and Soil Cleanup Objectives (SCOs) for PFAS are published, the extent of contaminated media potentially subject to remediation should be determined on a case-by-case basis using the procedures discussed below and the criteria in DER-10. Target levels for cleanup of PFAS in other media, including biota and sediment, have not yet been established by the DEC.	Until such time as Ambient Water Quality Standards (AWQS) and Soil Cleanup Objectives (SCOs) for PFOA and PFOS are published, the extent of contaminated media potentially subject to remediation should be determined on a case-by-case basis using the procedures discussed below and the criteria in DER-10. Preliminary target levels for cleanup of PFOA and PFOS in other media, including biota and sediment, have not yet been established by the DEC.	9/15/2020
Water Sample Results Page 10	PFAS should be further assessed and considered as a potential contaminant of concern in groundwater or surface water (…) If PFAS are identified as a contaminant of concern for a site, they should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10.	PFOA and PFOS should be further assessed and considered as potential contaminants of concern in groundwater or surface water (…) If PFOA and/or PFOS are identified as contaminants of concern for a site, they should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10.	9/15/2020

Citation and Page Number	Current Text	Corrected Text	Date
Soil Sample Results, page 10	"The extent of soil contamination for purposes of delineation and remedy selection should be determined by having certain soil samples tested by Synthetic Precipitation Leaching Procedure (SPLP) and the leachate analyzed for PFAS. Soil exhibiting SPLP results above 70 ppt for either PFOA or PFOS (individually or combined) are to be evaluated during the cleanup phase."	"Soil cleanup objectives for PFOA and PFOS will be proposed in an upcoming revision to 6 NYCRR Part 375-6. Until SCOs are in effect, the following are to be used as guidance values. " [Interim SCO Table] "PFOA and PFOS results for soil are to be compared against the guidance values listed above. These guidance values are to be used in determining whether PFOA and PFOS are contaminants of concern for the site and for determining remedial action objectives and cleanup requirements. Site-specific remedial objectives for protection of groundwater can also be presented for evaluation by DEC. Development of site-specific remedial objectives for protection of groundwater will require analysis of additional soil parameters relating to leachability. These additional analyses can include any or all the parameters listed above (soil pH, cation exchange capacity, etc.) and/or use of SPLP. As the understanding of PFAS transport improves, DEC welcomes proposals for site-specific remedial objectives for protection of groundwater. DEC will expect that those may be dependent on additional factors including soil pH, aqueous pH, % organic carbon, % Sand/Silt/Clay, soil cations: K, Ca, Mg, Na, Fe, Al, cation exchange capacity, and anion exchange capacity. Site-specific remedial objectives should also consider the dilution attenuation factor (DAF). The NJDEP publication on DAF can be used as a reference: https://www.nj.gov/dep/srp/guidance/rs/daf.pdf. "	9/15/2020

Citation and Page Number	Current Text	Corrected Text	Date
Testing for Imported Soil Page 11	Soil imported to a site for use in a soil cap, soil cover, or as backfill is to be tested for PFAS in general conformance with DER-10, Section 5.4(e) for the PFAS Analyte List (Appendix F) using the analytical procedures discussed below and the criteria in DER-10 associated with SVOCs. If PFOA or PFOS is detected in any sample at or above 1 µg/kg, then soil should be tested by SPLP and the leachate analyzed for PFAS. If the SPLP results exceed 10 ppt for either PFOA or PFOS (individually) then the source of backfill should be rejected, unless a site-specific exemption is provided by DER. SPLP leachate criteria is based on the Maximum Contaminant Levels proposed for drinking water by New York State's Department of Health, this value may be updated based on future Federal or State promulgated regulatory standards. Remedial parties have the option of analyzing samples concurrently for both PFAS in soil and in the SPLP leachate to minimize project delays. Category B deliverables should be submitted for backfill samples, though a DUSR is not required.	Testing for PFAS should be included any time a full TAL/TCL analyte list is required. Results for PFOA and PFOS should be compared to the applicable guidance values. If PFOA or PFOS is detected in any sample at or above the guidance values then the source of backfill should be rejected, unless a site-specific exemption is provided by DER based on SPLP testing, for example. If the concentrations of PFOA and PFOS in leachate are at or above 10 ppt (the Maximum Contaminant Levels established for drinking water by the New York State Department of Health), then the soil is not acceptable. PFOA, PFOS and 1,4-dioxane are all considered semi-volatile compounds, so composite samples are appropriate for these compounds when sampling in accordance with DER-10, Table 5.4(e)10. Category B deliverables should be submitted for backfill samples, though a DUSR is not required.	9/15/2020

Citation and Page Number	Current Text	Corrected Text	Date
Footnotes	None	[1] TOP Assay analysis of highly contaminated samples, such as those from an AFFF (aqueous film-forming foam) site, can result in incomplete oxidation of the samples and an underestimation of the total perfluoroalkyl substances. [2] The movement of PFAS in the environment is being aggressively researched at this time; that research will eventually result in more accurate models for the behaviors of these chemicals. In the meantime, DEC has calculated the soil cleanup objective for the protection of groundwater using the same procedure used for all other chemicals, as described in Section 7.7 of the Technical Support Document (http://www.dec.ny.gov/docs/remediation_hudson_pdf/techsuppdoc.pdf).	9/15/2020
Additional Analysis, page 9	In cases… soil parameters, such as Total Organic Carbon (EPA Method 9060), soil…	In cases… soil parameters, such as Total Organic Carbon (Lloyd Kahn), soil…	1/8/2021
Appendix A, General Guidelines, fourth bullet	List the ELAP-approved lab(s) to be used for analysis of samples	List the ELAP- certified lab(s) to be used for analysis of samples	1/8/2021
Appendix E, Laboratory Analysis and Containers	Drinking water samples collected using this protocol are intended to be analyzed for PFAS by ISO Method 25101.	Drinking water samples collected using this protocol are intended to be analyzed for PFAS by EPA Method 537, 537.1, 533, or ISO Method 25101	1/8/2021
Water Sample Results Page 9	"In addition, further assessment of water may be warranted if either of the following screening levels are met: a. any other individual PFAS (not PFOA or PFOS) is detected in water at or above 100 ng/L; or b. total concentration of PFAS (including PFOA and PFOS) is detected in water at or above 500 ng/L"	Deleted	6/15/2021

Citation and Page Number	Current Text	Corrected Text	Date
Routine Analysis, Page XX	Currently, New York State Department of Health's Environmental Laboratory Approval Program (ELAP)… criteria set forth in the DER's laboratory guidelines for PFAS in non-potable water and solids (Appendix H - Laboratory Guidelines for Analysis of PFAS in Non-Potable Water and Solids).	Deleted	5/31/2022
Analysis and Reporting, Page XX	As of October 2020, the United States Environmental Protection Agency (EPA) does not have a validated method for analysis of PFAS for media commonly analyzed under DER remedial programs (non-potable waters, solids). DER has developed the following guidelines to ensure consistency in analysis and reporting of PFAS.	Deleted	5/31/2022
Routine Analysis, Page XX	LC-MS/MS analysis for PFAS using methodologies based on EPA Method 537.1 is the procedure to use for environmental samples. Isotope dilution techniques should be utilized for the analysis of PFAS in all media.	EPA Method 1633 is the procedure to use for environmental samples.	
Soil Sample Results, Page XX	Soil cleanup objectives for PFOA and PFOS will be proposed in an upcoming revision to 6 NYCRR Part 375-6	Soil cleanup objectives for PFOA and PFOS have been proposed in an upcoming revision to 6 NYCRR Part 375-6	
Appendix A	"Include in the text… LC-MS/MS for PFAS using methodologies based on EPA Method 537.1"	"Include in the text ….EPA Method 1633"	
Appendix A	"Laboratory should have ELAP certification for PFOA and PFOS in drinking water by EPA Method 537, 537.1, EPA Method 533, or ISO 25101"	Deleted	
Appendix B	"Samples collected using this protocol are intended to be analyzed for PFAS using methodologies based on EPA Method 537.1"	"Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633"	

Citation and Page Number	Current Text	Corrected Text	Date
Appendix C	"Samples collected using this protocol are intended to be analyzed for PFAS using methodologies based on EPA Method 537.1"	"Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633"	
Appendix D	"Samples collected using this protocol are intended to be analyzed for PFAS using methodologies based on EPA Method 537.1"	"Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633"	
Appendix G		Updated to include all forty PFAS analytes in EPA Method 533	
Appendix H		Deleted	
Appendix I	Appendix I	Appendix H	
Appendix H	"These guidelines are intended to be used for the validation of PFAS analytical results for projects within the Division of Environmental Remediation (DER) as well as aid in the preparation of a data usability summary report."	"These guidelines are intended to be used for the validation of PFAS using EPA Method 1633 for projects within the Division of Environmental Remediation (DER)."	
Appendix H	"The holding time is 14 days…"	"The holding time is 28 days…"	
Appendix H, Initial Calibration	"The initial calibration should contain a minimum of five standards for linear fit…"	"The initial calibration should contain a minimum of six standards for linear fit…"	
Appendix H, Initial Calibration	Linear fit calibration curves should have an R^2 value greater than 0.990.	Deleted	
Appendix H, Initial Calibration Verification	Initial Calibration Verification Section	Deleted	
Appendix H	secondary Ion Monitoring Section	Deleted	
Appendix H	Branched and Linear Isomers Section	Deleted	

Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs

Objective

New York State Department of Environmental Conservation's Division of Environmental Remediation (DER) performs or oversees sampling of environmental media and subsequent analysis of PFAS as part of remedial programs implemented under 6 NYCRR Part 375. To ensure consistency in sampling, analysis, reporting, and assessment of PFAS, DER has developed this document which summarizes currently accepted procedures and updates previous DER technical guidance pertaining to PFAS.

Applicability

All work plans submitted to DEC pursuant to one of the remedial programs under Part 375 shall include PFAS sampling and analysis procedures that conform to the guidelines provided herein.

As part of a site investigation or remedial action compliance program, whenever samples of potentially affected media are collected and analyzed for the standard Target Analyte List/Target Compound List (TAL/TCL), PFAS analysis should also be performed. Potentially affected media can include soil, groundwater, surface water, and sediment. Based upon the potential for biota to be affected, biota sampling and analysis for PFAS may also be warranted as determined pursuant to a Fish and Wildlife Impact Analysis. Soil vapor sampling for PFAS is not required.

Field Sampling Procedures

DER-10 specifies technical guidance applicable to DER's remedial programs. Given the prevalence and use of PFAS, DER has developed "best management practices" specific to sampling for PFAS. As specified in DER-10 Chapter 2, quality assurance procedures are to be submitted with investigation work plans. Typically, these procedures are incorporated into a work plan, or submitted as a stand-alone document (e.g., a Quality Assurance Project Plan). Quality assurance guidelines for PFAS are listed in Appendix A - Quality Assurance Project Plan (QAPP) Guidelines for PFAS.

Field sampling for PFAS performed under DER remedial programs should follow the appropriate procedures outlined for soils, sediments, or other solids (Appendix B), non-potable groundwater (Appendix C), surface water (Appendix D), public or private water supply wells (Appendix E), and fish tissue (Appendix F).

QA/QC samples (e.g. duplicates, MS/MSD) should be collected as specified in DER-10, Section 2.3(c). For sampling equipment coming in contact with aqueous samples only, rinsate or equipment blanks should be collected. Equipment blanks should be collected at a minimum frequency of one per day per site or one per twenty samples, whichever is more frequent.

Analysis and Reporting

The investigation work plan should describe analysis and reporting procedures, including laboratory analytical procedures for the methods discussed below. As specified in DER-10 Section 2.2, laboratories should provide a full Category B deliverable. In addition, a Data Usability Summary Report (DUSR) should be prepared by an independent, third-party data validator. Electronic data submissions should meet the requirements provided at: https://www.dec.ny.gov/chemical/62440.html.

DER has developed a *PFAS Analyte List* (Appendix G) for remedial programs to understand the nature of contamination at sites. It is expected that reported results for PFAS will include, at a minimum, all the compounds listed. If lab and/or matrix specific issues are encountered for any analytes, the DER project manager, in consultation with the DER chemist, will make case-by-case decisions as to whether certain analytes may be temporarily or permanently discontinued from analysis at each site. As with other contaminants that are analyzed for at a site, the *PFAS Analyte List* may be refined for future sampling events based on investigative findings.

Routine Analysis

EPA Method 1633 is the procedure to use for environmental samples. Reporting limits for PFOA and PFOS in aqueous samples should not exceed 2 ng/L. Reporting limits for PFOA and PFOS in solid samples should not exceed 0.5 µg/kg. Reporting limits for all other PFAS in aqueous and solid media should be as close to these limits as possible. If laboratories indicate that they are not able to achieve these reporting limits for the entire *PFAS Analyte List*, site-specific decisions regarding acceptance of elevated reporting limits for specific PFAS can be made by the DER project manager in consultation with the DER chemist. Data review guidelines were developed by DER to ensure data comparability and usability (Appendix H - Data Review Guidelines for Analysis of PFAS in Non-Potable Water and Solids).

Additional Analysis

Additional laboratory methods for analysis of PFAS may be warranted at a site, such as the Synthetic Precipitation Leaching Procedure (SPLP) and Total Oxidizable Precursor Assay (TOP Assay).

In cases where site-specific cleanup objectives for PFOA and PFOS are to be assessed, soil parameters, such as Total Organic Carbon (Lloyd Kahn), soil pH (EPA Method 9045), clay content (percent), and cation exchange capacity (EPA Method 9081), should be included in the analysis to help evaluate factors affecting the leachability of PFAS in site soils.

SPLP is a technique used to determine the mobility of chemicals in liquids, soils and wastes, and may be useful in determining the need for addressing PFAS-containing material as part of the remedy. SPLP by EPA Method 1312 should be used unless otherwise specified by the DER project manager in consultation with the DER chemist.

Impacted materials can be made up of PFAS that are not analyzable by routine analytical methodology. A TOP Assay can be utilized to conceptualize the amount and type of oxidizable PFAS which could be liberated in the environment, which approximates the maximum concentration of perfluoroalkyl substances that could be generated if all polyfluoroalkyl substances were oxidized. For example, some polyfluoroalkyl substances may degrade or transform to form perfluoroalkyl substances (such as PFOA or PFOS), resulting in an increase in perfluoroalkyl substance concentrations as contaminated groundwater moves away from a source. The TOP Assay converts, through oxidation, polyfluoroalkyl substances (precursors) into perfluoroalkyl substances that can be detected by routine analytical methodology.[1]

[1] TOP Assay analysis of highly contaminated samples, such as those from an AFFF (aqueous film-forming foam) site, can result in incomplete oxidation of the samples and an underestimation of the total perfluoroalkyl substances.

Commercial laboratories have adopted methods which allow for the quantification of targeted PFAS in air and biota. The EPA's Office of Research and Development (ORD) is currently developing methods which allow for air emissions characterization of PFAS, including both targeted and non-targeted analysis of PFAS. Consult with the DER project manager and the DER chemist for assistance on analyzing biota/tissue and air samples.

Data Assessment and Application to Site Cleanup

Until such time as Soil Cleanup Objectives (SCOs) for PFOA and PFOS are published, the extent of contaminated media potentially subject to remediation should be determined on a case-by-case basis using the procedures discussed below and the criteria in DER-10. Preliminary target levels for cleanup of PFOA and PFOS in other media, including biota and sediment, have not yet been established by the DEC.

Water Sample Results

NYSDEC has adopted ambient water quality guidance values for PFOA and PFOS. Groundwater samples should be compared to the human health criteria of 6.7 ng/l (ppt) for PFOA and 2.7 ng/l (ppt) for PFOS. These human health criteria should also be applied to surface water that is used as a water supply. This guidance also includes criteria for surface water for PFOS applicable for aquatic life, which may be applicable at some sites. Drinking water sample results should be compared to the NYS maximum contaminant level (MCL) of 10 ng/l (ppt). Analysis to determine if PFOA and PFOS concentrations are attributable to the site should include a comparison between upgradient and downgradient levels, and the presence of soil source areas, as defined below.

If PFOA and/or PFOS are identified as contaminants of concern for a site, they should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10.

Soil Sample Results

NYSDEC will delay adding soil cleanup objectives for PFOA and PFOS to 6 NYCRR Part 375-6 until the PFAS rural soil background study has been completed. Until SCOs are in effect, the following are to be used as guidance values:

Guidance Values for Anticipated Site Use	PFOA (ppb)	PFOS (ppb)
Unrestricted	0.66	0.88
Residential	6.6	8.8
Restricted Residential	33	44
Commercial	500	440
Industrial	600	440
Protection of Groundwater[2]	0.8	1.0

PFOA and PFOS results for soil are to be compared against the guidance values listed above. These guidance values are to be used in determining whether PFOA and PFOS are contaminants of concern for the site and for determining remedial action objectives and cleanup requirements. Site-specific remedial objectives for protection of groundwater can also be presented for evaluation by DEC. Development of site-specific remedial objectives for protection of groundwater will require analysis of additional soil parameters relating to leachability. These

[2] The Protection of Groundwater values are based on the above referenced ambient groundwater guidance values. Details on that calculation are available in the following document, prepared for the February 2022 proposed changes to Part 375 (https://www.dec.ny.gov/docs/remediation_hudson_pdf/part375techsupport.pdf). The movement of PFAS in the environment is being aggressively researched at this time; that research will eventually result in more accurate models for the behaviors of these chemicals. In the meantime, DEC has calculated the guidance value for the protection of groundwater using the same procedure used for all other chemicals, as described in Section 7.7 of the Technical Support Document (http://www.dec.ny.gov/docs/remediation_hudson_pdf/techsuppdoc.pdf).

additional analyses can include any or all the parameters listed above (soil pH, cation exchange capacity, etc.) and/or use of SPLP.

As the understanding of PFAS transport improves, DEC welcomes proposals for site-specific remedial objectives for protection of groundwater. DEC will expect that those may be dependent on additional factors including soil pH, aqueous pH, % organic carbon, % Sand/Silt/Clay, soil cations: K, Ca, Mg, Na, Fe, Al, cation exchange capacity, and anion exchange capacity. Site-specific remedial objectives should also consider the dilution attenuation factor (DAF). The NJDEP publication on DAF can be used as a reference: https://www.nj.gov/dep/srp/guidance/rs/daf.pdf.

Testing for Imported Soil

Testing for PFAS should be included any time a full TAL/TCL analyte list is required. Results for PFOA and PFOS should be compared to the applicable guidance values. If PFOA or PFOS is detected in any sample at or above the guidance values then the source of backfill should be rejected, unless a site-specific exemption is provided by DER based on SPLP testing, for example. If the concentrations of PFOA and PFOS in leachate are at or above the ambient water quality guidance values for groundwater, then the soil is not acceptable.

PFOA, PFOS and 1,4-dioxane are all considered semi-volatile compounds, so composite samples are appropriate for these compounds when sampling in accordance with DER-10, Table 5.4(e)10. Category B deliverables should be submitted for backfill samples, though a DUSR is not required.

Appendix A - Quality Assurance Project Plan (QAPP) Guidelines for PFAS

The following guidelines (general and PFAS-specific) can be used to assist with the development of a QAPP for projects within DER involving sampling and analysis of PFAS.

General Guidelines in Accordance with DER-10

- Document/work plan section title – Quality Assurance Project Plan
- Summarize project scope, goals, and objectives
- Provide project organization including names and resumes of the project manager, Quality Assurance Officer (QAO), field staff, and Data Validator
    - The QAO should not have another position on the project, such as project or task manager, that involves project productivity or profitability as a job performance criterion
- List the ELAP certified lab(s) to be used for analysis of samples
- Include a site map showing sample locations
- Provide detailed sampling procedures for each matrix
- Include Data Quality Usability Objectives
- List equipment decontamination procedures
- Include an "Analytical Methods/Quality Assurance Summary Table" specifying:
    - Matrix type
    - Number or frequency of samples to be collected per matrix
    - Number of field and trip blanks per matrix
    - Analytical parameters to be measured per matrix
    - Analytical methods to be used per matrix with minimum reporting limits
    - Number and type of matrix spike and matrix spike duplicate samples to be collected
    - Number and type of duplicate samples to be collected
    - Sample preservation to be used per analytical method and sample matrix
    - Sample container volume and type to be used per analytical method and sample matrix
    - Sample holding time to be used per analytical method and sample matrix
- Specify Category B laboratory data deliverables and preparation of a DUSR

Specific Guidelines for PFAS

- Include in the text that sampling for PFAS will take place
- Include in the text that PFAS will be analyzed by EPA Method 1633
- Include the list of PFAS compounds to be analyzed (*PFAS Analyte List*)
- Include the laboratory SOP for PFAS analysis
- List the minimum method-achievable Reporting Limits for PFAS
    - Reporting Limits should be less than or equal to:
        - Aqueous – 2 ng/L (ppt)
        - Solids – 0.5 µg/kg (ppb)
- Include the laboratory Method Detection Limits for the PFAS compounds to be analyzed
-
- Include detailed sampling procedures
    - Precautions to be taken
    - Pump and equipment types
    - Decontamination procedures
    - Approved materials only to be used
- Specify that regular ice only will be used for sample shipment
- Specify that equipment blanks should be collected at a minimum frequency of 1 per day per site for each matrix

Appendix B - Sampling Protocols for PFAS in Soils, Sediments and Solids

General

The objective of this protocol is to give general guidelines for the collection of soil, sediment and other solid samples for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Containers

Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633.

The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in to contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials including sample bottle cap liners with a PTFE layer.

A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.

- stainless steel spoon
- stainless steel bowl
- steel hand auger or shovel without any coatings

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Sampling is often conducted in areas where a vegetative turf has been established. In these cases, a pre-cleaned trowel or shovel should be used to carefully remove the turf so that it may be replaced at the conclusion of sampling. Surface soil samples (e.g. 0 to 6 inches below surface) should then be collected using a pre-cleaned, stainless steel spoon. Shallow subsurface soil samples (e.g. 6 to ~36 inches below surface) may be collected by digging a hole using a pre-cleaned hand auger or shovel. When the desired subsurface depth is reached, a pre-cleaned hand auger or spoon shall be used to obtain the sample.

When the sample is obtained, it should be deposited into a stainless steel bowl for mixing prior to filling the sample containers. The soil should be placed directly into the bowl and mixed thoroughly by rolling the material into the middle until the material is homogenized. At this point the material within the bowl can be placed into the laboratory provided container.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A soil log or sample log shall document the location of the sample/borehole, depth of the sample, sampling equipment, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate. Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appropriate rain gear (PVC, polyurethane, or rubber rain gear are acceptable), bug spray, and sunscreen should be used that does not contain PFAS. Well washed cotton coveralls may be used as an alternative to bug spray and/or sunscreen.

PPE that contains PFAS is acceptable when site conditions warrant additional protection for the samplers and no other materials can be used to be protective. Documentation of such use should be provided in the field notes.

Appendix C - Sampling Protocols for PFAS in Monitoring Wells

General

The objective of this protocol is to give general guidelines for the collection of groundwater samples for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Container

Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633.

The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include: stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials including plumbers tape and sample bottle cap liners with a PTFE layer.

A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.

- stainless steel inertia pump with HDPE tubing
- peristaltic pump equipped with HDPE tubing and silicone tubing
- stainless steel bailer with stainless steel ball
- bladder pump (identified as PFAS-free) with HDPE tubing

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Monitoring wells should be purged in accordance with the sampling procedure (standard/volume purge or low flow purge) identified in the site work plan, which will determine the appropriate time to collect the sample. If sampling using standard purge techniques, additional purging may be needed to reduce turbidity levels, so samples contain a limited amount of sediment within the sample containers. Sample containers that contain sediment may cause issues at the laboratory, which may result in elevated reporting limits and other issues during the sample preparation that can compromise data usability. Sampling personnel should don new nitrile gloves prior to sample collection due to the potential to contact PFAS containing items (not related to the sampling equipment) during the purging activities.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- Collect one equipment blank per day per site and minimum 1 equipment blank per 20 samples. The equipment blank shall test the new and decontaminated sampling equipment utilized to obtain a sample for residual PFAS contamination. This sample is obtained by using laboratory provided PFAS-free water and passing the water over or through the sampling device and into laboratory provided sample containers
- Additional equipment blank samples may be collected to assess other equipment that is utilized at the monitoring well
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A purge log shall document the location of the sample, sampling equipment, groundwater parameters, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate. Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appropriate rain gear (PVC, polyurethane, or rubber rain gear are acceptable), bug spray, and sunscreen should be used that does not contain PFAS. Well washed cotton coveralls may be used as an alternative to bug spray and/or sunscreen.

PPE that contains PFAS is acceptable when site conditions warrant additional protection for the samplers and no other materials can be used to be protective. Documentation of such use should be provided in the field notes.

Appendix D - Sampling Protocols for PFAS in Surface Water

General

The objective of this protocol is to give general guidelines for the collection of surface water samples for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Container

Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633.

The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include: stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials including sample bottle cap liners with a PTFE layer.

A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.

- stainless steel cup

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Where conditions permit, (e.g. creek or pond) sampling devices (e.g. stainless steel cup) should be rinsed with site medium to be sampled prior to collection of the sample. At this point the sample can be collected and poured into the sample container.

If site conditions permit, samples can be collected directly into the laboratory container.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- Collect one equipment blank per day per site and minimum 1 equipment blank per 20 samples. The equipment blank shall test the new and decontaminated sampling equipment utilized to obtain a sample for residual PFAS contamination. This sample is obtained by using laboratory provided PFAS-free water and passing the water over or through the sampling device and into laboratory provided sample containers
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A sample log shall document the location of the sample, sampling equipment, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate. Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appropriate rain gear (PVC, polyurethane, or rubber rain gear are acceptable), bug spray, and sunscreen should be used that does not contain PFAS. Well washed cotton coveralls may be used as an alternative to bug spray and/or sunscreen.

PPE that contains PFAS is acceptable when site conditions warrant additional protection for the samplers and no other materials can be used to be protective. Documentation of such use should be provided in the field notes.

Appendix E - Sampling Protocols for PFAS in Private Water Supply Wells

General

The objective of this protocol is to give general guidelines for the collection of water samples from private water supply wells (with a functioning pump) for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Container

Drinking water samples collected using this protocol are intended to be analyzed for PFAS by EPA Method 537, 537.1, 533, or ISO Method 25101. The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials (e.g. plumbers tape), including sample bottle cap liners with a PTFE layer.

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Locate and assess the pressure tank and determine if any filter units are present within the building. Establish the sample location as close to the well pump as possible, which is typically the spigot at the pressure tank. Ensure sampling equipment is kept clean during sampling as access to the pressure tank spigot, which is likely located close to the ground, may be obstructed and may hinder sample collection.

Prior to sampling, a faucet downstream of the pressure tank (e.g., washroom sink) should be run until the well pump comes on and a decrease in water temperature is noted which indicates that the water is coming from the well. If the homeowner is amenable, staff should run the water longer to purge the well (15+ minutes) to provide a sample representative of the water in the formation rather than standing water in the well and piping system including the pressure tank. At this point a new pair of nitrile gloves should be donned and the sample can be collected from the sample point at the pressure tank.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- If equipment was used, collect one equipment blank per day per site and a minimum 1 equipment blank per 20 samples. The equipment blank shall test the new and decontaminated sampling equipment utilized to obtain a sample for residual PFAS contamination. This sample is obtained by using laboratory provided PFAS-free water and passing the water over or through the sampling device and into laboratory provided sample containers.
- A field reagent blank (FRB) should be collected at a rate of one per 20 samples. The lab will provide a FRB bottle containing PFAS free water and one empty FRB bottle. In the field, pour the water from the one bottle into the empty FRB bottle and label appropriately.
- Request appropriate data deliverable (Category B) and an electronic data deliverable
- For sampling events where multiple private wells (homes or sites) are to be sampled per day, it is acceptable to collect QC samples at a rate of one per 20 across multiple sites or days.

Documentation

A sample log shall document the location of the private well, sample point location, owner contact information, sampling equipment, purge duration, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate and available (e.g. well construction, pump type and location, yield, installation date). Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appendix F - Sampling Protocols for PFAS in Fish

This appendix contains a copy of the current SOP developed by the Division of Fish and Wildlife (DFW) entitled "General Fish Handling Procedures for Contaminant Analysis" (Ver. 8). This SOP should be followed when collecting fish for contaminant analysis. Note, however, that the Bureau of Ecosystem Health will not be supplying bags or tags. All supplies are the responsibility of the collector

Procedure Name: General Fish Handling Procedures for Contaminant Analysis

Number: FW-005

Purpose: This procedure describes data collection, fish processing and delivery of fish collected for contaminant monitoring. It contains the chain of custody and collection record forms that should be used for the collections.

Organization: Environmental Monitoring Section
Bureau of Ecosystem Health
Division of Fish and Wildlife (DFW)
New York State Department of Environmental Conservation (NYSDEC)
625 Broadway
Albany, New York 12233-4756

Version: 8

Previous Version Date: 21 March 2018

Summary of Changes to this Version: Updated bureau name to Bureau of Ecosystem Health. Added direction to list the names of all field crew on the collection record. Minor formatting changes on chain of custody and collection records.

Originator or Revised by: Wayne Richter, Jesse Becker

Date: 26 April 2019

Quality Assurance Officer and Approval Date: Jesse Becker, 26 April 2019

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GENERAL FISH HANDLING PROCEDURES FOR CONTAMINANT ANALYSES

A. Original copies of all continuity of evidence (i.e., Chain of Custody) and collection record forms must accompany delivery of fish to the lab. A copy shall be directed to the Project Leader or as appropriate, Wayne Richter. All necessary forms will be supplied by the Bureau of Ecosystem Health. Because some samples may be used in legal cases, it is critical that each section is filled out completely. Each Chain of Custody form has three main sections:

   1. The top box is to be filled out **and signed** by the person responsible for the fish collection (e.g., crew leader, field biologist, researcher). This person is responsible for delivery of the samples to DEC facilities or personnel (e.g., regional office or biologist).

   2. The second section is to be filled out **and signed** by the person responsible for the collections while being stored at DEC, before delivery to the analytical lab. This may be the same person as in (1), but it is still required that they complete the section. Also important is the **range of identification numbers** (i.e., tag numbers) included in the sample batch.

   3. Finally, the bottom box is to record any transfers between DEC personnel and facilities. Each subsequent transfer should be **identified, signed, and dated**, until laboratory personnel take possession of the fish.

B. The following data are required on each **Fish Collection Record** form:

   1. Project and Site Name.

   2. DEC Region.

   3. All personnel (and affiliation) involved in the collection.

   4. Method of collection (gill net, hook and line, etc.)

   5. Preservation Method.

C. The following data are to be taken on each fish collected and recorded on the **Fish Collection Record** form:

   1. Tag number - Each specimen is to be individually jaw tagged at time of collection with a unique number. Make sure the tag is turned out so that the number can be read without opening the bag. Use tags in sequential order. For small fish or composite samples place the tag inside the bag with the samples. The Bureau of Ecosystem Health can supply the tags.

   2. Species identification (please be explicit enough to enable assigning genus and species). Group fish by species when processing.

   3. Date collected.

   4. Sample location (waterway and nearest prominent identifiable landmark).

   5. Total length (nearest mm or smallest sub-unit on measuring instrument) and weight (nearest g or

smallest sub-unit of weight on weighing instrument). Take all measures as soon as possible with calibrated, protected instruments (e.g. from wind and upsets) and prior to freezing.

6. Sex - fish may be cut enough to allow sexing or other internal investigation, but do not eviscerate. Make any incision on the right side of the belly flap or exactly down the midline so that a left-side fillet can be removed.

D. General data collection recommendations:

1. It is helpful to use an ID or tag number that will be unique. It is best to use metal striped bass or other uniquely numbered metal tags. If uniquely numbered tags are unavailable, values based on the region, water body and year are likely to be unique: for example, R7CAY11001 for Region 7, Cayuga Lake, 2011, fish 1. If the fish are just numbered 1 through 20, we have to give them new numbers for our database, making it more difficult to trace your fish to their analytical results and creating an additional possibility for errors.

2. Process and record fish of the same species sequentially. Recording mistakes are less likely when all fish from a species are processed together. Starting with the bigger fish species helps avoid missing an individual.

3. If using Bureau of Ecosystem Health supplied tags or other numbered tags, use tags in sequence so that fish are recorded with sequential Tag Numbers. This makes data entry and login at the lab and use of the data in the future easier and reduces keypunch errors.

4. Record length and weight as soon as possible after collection and before freezing. Other data are recorded in the field upon collection. An age determination of each fish is optional, but if done, it is recorded in the appropriate “Age” column.

5. For composite samples of small fish, record the number of fish in the composite in the Remarks column. Record the length and weight of each individual in a composite. All fish in a composite sample should be of the same species and members of a composite should be visually matched for size.

6. Please submit photocopies of topographic maps or good quality navigation charts indicating sampling locations. GPS coordinates can be entered in the Location column of the collection record form in addition to or instead for providing a map. These records are of immense help to us (and hopefully you) in providing documented location records which are not dependent on memory and/or the same collection crew. In addition, they may be helpful for contaminant source trackdown and remediation/control efforts of the Department.

7. When recording data on fish measurements, it will help to ensure correct data recording for the data recorder to call back the numbers to the person making the measurements.

E. Each fish is to be placed in its own individual plastic bag. For small fish to be analyzed as a composite, put all of the fish for one composite in the same bag but use a separate bag for each composite. It is important to individually bag the fish to avoid difficulties or cross contamination when processing the fish for chemical analysis. Be sure to include the fish’s tag number inside the bag, preferably attached to the fish with the tag number turned out so it can be read. Tie or otherwise secure the bag closed. **The Bureau of Ecosystem Health will supply the bags.** If necessary, food grade bags may be procured from a suitable vendor (e.g., grocery store). It is preferable to redundantly label each bag with a manila tag tied between the knot and the body of the bag. This tag should be labeled with the project name, collection location, tag number, collection date, and fish species. If scales are collected, the scale envelope should be labeled with

the same information.

F. Groups of fish, by species, are to be placed in one large plastic bag per sampling location. **The Bureau of Ecosystem Health will supply the larger bags.** Tie or otherwise secure the bag closed. Label the site bag with a manila tag tied between the knot and the body of the bag. The tag should contain: project, collection location, collection date, species and **tag number ranges**. Having this information on the manila tag enables lab staff to know what is in the bag without opening it.

G. Do not eviscerate, fillet or otherwise dissect the fish unless specifically asked to. If evisceration or dissection is specified, the fish must be cut along the exact midline or on the right side so that the left side fillet can be removed intact at the laboratory. If filleting is specified, the procedure for taking a standard fillet (SOP PREPLAB 4) must be followed, including removing scales.

H. Special procedures for PFAS: Unlike legacy contaminants such as PCBs, which are rarely found in day to day life, PFAS are widely used and frequently encountered. Practices that avoid sample contamination are therefore necessary. While no standard practices have been established for fish, procedures for water quality sampling can provide guidance. The following practices should be used for collections when fish are to be analyzed for PFAS:

No materials containing Teflon.
No Post-it notes.
No ice packs; only water ice or dry ice.
Any gloves worn must be powder free nitrile.
No Gore-Tex or similar materials (Gore-Tex is a PFC with PFOA used in its manufacture).
No stain repellent or waterproof treated clothing; these are likely to contain PFCs.
Avoid plastic materials, other than HDPE, including clipboards and waterproof notebooks.
Wash hands after handling any food containers or packages as these may contain PFCs.
Keep pre-wrapped food containers and wrappers isolated from fish handling.
Wear clothing washed at least six times since purchase.
Wear clothing washed without fabric softener.
Staff should avoid cosmetics, moisturizers, hand creams and similar products on the day of sampling as many of these products contain PFCs (Fujii et al. 2013). Sunscreen or insect repellent should not contain ingredients with “fluor” in their name. Apply any sunscreen or insect repellent well downwind from all materials. Hands must be washed after touching any of these products.

I. All fish must be kept at a temperature <45° F (<8° C) immediately following data processing. As soon as possible, freeze at -20° C ± 5° C. Due to occasional freezer failures, daily freezer temperature logs are required. The freezer should be locked or otherwise secured to maintain chain of custody.

J. In most cases, samples should be delivered to the Analytical Services Unit at the Hale Creek field station. Coordinate delivery with field station staff and send copies of the collection records, continuity of evidence forms and freezer temperature logs to the field station. For samples to be analyzed elsewhere, non-routine collections or other questions, contact Wayne Richter, Bureau of Ecosystem Health, NYSDEC, 625 Broadway, Albany, New York 12233-4756, 518-402-8974, or the project leader about sample transfer. Samples will then be directed to the analytical facility and personnel noted on specific project descriptions.

K. A recommended equipment list is at the end of this document.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF FISH AND WILDLIFE
FISH COLLECTION RECORD

Project and Site Name _____ DEC Region _____

Collections made by (include all crew) _____

Sampling Method: □Electrofishing □Gill netting □Trap netting □Trawling □Seining □Angling □Other _____

Preservation Method: □Freezing □Other _____ Notes (SWFDB survey number): _____

FOR LAB USE ONLY- LAB ENTRY NO.	COLLECTION OR TAG NO.	SPECIES	DATE TAKEN	LOCATION	AGE	SEX &/OR REPROD. CONDIT	LENGTH ( )	WEIGHT ( )	REMARKS

richter: revised 2011, 5/7/15, 10/4/16, 3/20/17; becker: 3/23/17, 4/26/19

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CHAIN OF CUSTODY

I, _____, of _____ collected the
(Print Name) (Print Business Address)

following on _____, 20____ from _____
(Date) (Water Body)

in the vicinity of _____
(Landmark, Village, Road, etc.)

Town of _____, in _____ County.

Item(s) _____

_____

Said sample(s) were in my possession and handled according to standard procedures provided to me prior to collection. The sample(s) were placed in the custody of a representative of the New York State Department of Environmental Conservation on _____, 20_____.

_____ _____
Signature Date

I, _____, received the above mentioned sample(s) on the date specified and assigned identification number(s) _____ to the sample(s). I have recorded pertinent data for the sample(s) on the attached collection records. The sample(s) remained in my custody until subsequently transferred, prepared or shipped at times and on dates as attested to below.

_____ _____
Signature Date

SECOND RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
THIRD RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
FOURTH RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
RECEIVED IN LABORATORY BY (Print Name)	TIME & DATE	REMARKS
SIGNATURE	UNIT	
LOGGED IN BY (Print Name)	TIME & DATE	ACCESSION NUMBERS
SIGNATURE	UNIT	

richter: revised 21 April 2014; becker: 23 March 2017, 26 April, 2019

NOTICE OF WARRANTY

By signature to the chain of custody (reverse), the signatory warrants that the information provided is truthful and accurate to the best of his/her ability. The signatory affirms that he/she is willing to testify to those facts provided and the circumstances surrounding the same. Nothing in this warranty or chain of custody negates responsibility nor liability of the signatories for the truthfulness and accuracy of the statements provided.

HANDLING INSTRUCTIONS

On day of collection, collector(s) name(s), address(es), date, geographic location of capture (attach a copy of topographic map or navigation chart), species, number kept of each species, and description of capture vicinity (proper noun, if possible) along with name of Town and County must be indicated on reverse.

Retain organisms in manila tagged plastic bags to avoid mixing capture locations. Note appropriate information on each bag tag.

Keep samples as cool as possible. Put on ice if fish cannot be frozen within 12 hours. If fish are held more than 24 hours without freezing, they will not be retained or analyzed.

Initial recipient (either DEC or designated agent) of samples from collector(s) is responsible for obtaining and recording information on the collection record forms which will accompany the chain of custody. This person will seal the container using packing tape and writing his signature, the time and the date across the tape onto the container with indelible marker. Any time a seal is broken, for whatever purpose, the incident must be recorded on the Chain of Custody (reason, time, and date) in the purpose of transfer block. Container then is resealed using new tape and rewriting signature, with time and date.

EQUIPMENT LIST

Scale or balance of appropriate capacity for the fish to be collected.

Fish measuring board.

Plastic bags of an appropriate size for the fish to be collected and for site bags.

Individually numbered metal tags for fish.

Manila tags to label bags.

Small envelops, approximately 2” x 3.5”, if fish scales are to be collected.

Knife for removing scales.

Chain of custody and fish collection forms.

Clipboard.

Pens or markers.

Paper towels.

Dish soap and brush.

Bucket.

Cooler.

Ice.

Duct tape.

Appendix G – PFAS Analyte List

Group	Chemical Name	Abbreviation	CAS Number
Perfluoroalkyl sulfonic acids	Perfluorobutanesulfonic acid	PFBS	375-73-5
	Perfluoropentanesulfonic acid	PFPeS	2706-91-4
	Perfluorohexanesulfonic acid	PFHxS	355-46-4
	Perfluoroheptanesulfonic acid	PFHpS	375-92-8
	Perfluorooctanesulfonic acid	PFOS	1763-23-1
	Perfluorononanesulfonic acid	PFNS	68259-12-1
	Perfluorodecanesulfonic acid	PFDS	335-77-3
	Perfluorododecanesulfonic acid	PFDoS	79780-39-5
Perfluoroalkyl carboxylic acids	Perfluorobutanoic acid	PFBA	375-22-4
	Perfluoropentanoic acid	PFPeA	2706-90-3
	Perfluorohexanoic acid	PFHxA	307-24-4
	Perfluoroheptanoic acid	PFHpA	375-85-9
	Perfluorooctanoic acid	PFOA	335-67-1
	Perfluorononanoic acid	PFNA	375-95-1
	Perfluorodecanoic acid	PFDA	335-76-2
	Perfluoroundecanoic acid	PFUnA	2058-94-8
	Perfluorododecanoic acid	PFDoA	307-55-1
	Perfluorotridecanoic acid	PFTrDA	72629-94-8
	Perfluorotetradecanoic acid	PFTeDA	376-06-7
Per- and Polyfluoroether carboxylic acids	Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6
	4,8-Dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4
	Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1
	Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5
	Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6
Fluorotelomer sulfonic acids	4:2 Fluorotelomer sulfonic acid	4:2-FTS	757124-72-4
	6:2 Fluorotelomer sulfonic acid	6:2-FTS	27619-97-2
	8:2 Fluorotelomer sulfonic acid	8:2-FTS	39108-34-4
Fluorotelomer carboxylic acids	3:3 Fluorotelomer carboxylic acid	3:3 FTCA	356-02-5
	5:3 Fluorotelomer carboxylic acid	5:3 FTCA	914637-49-3
	7:3 Fluorotelomer carboxylic acid	7:3 FTCA	812-70-4
Perfluorooctane sulfonamides	Perfluorooctane sulfonamide	PFOSA	754-91-6
	N-methylperfluorooctane sulfonamide	NMeFOSA	31506-32-8
	N-ethylperfluorooctane sulfonamide	NEtFOSA	4151-50-2
Perfluorooctane sulfonamidoacetic acids	N-methylperfluorooctane sulfonamidoacetic acid	N-MeFOSAA	2355-31-9
	N-ethylperfluorooctane sulfonamidoacetic acid	N-EtFOSAA	2991-50-6
Perfluorooctane sulfonamide ethanols	N-methylperfluorooctane sulfonamidoethanol	MeFOSE	24448-09-7
	N-ethylperfluorooctane sulfonamidoethanol	EtFOSE	1691-99-2

Group	Chemical Name	Abbreviation	CAS Number
Ether sulfonic acids	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major)	9Cl-PF3ONS	756426-58-1
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	11Cl-PF3OUdS	763051-92-9
	Perfluoro(2-ethoxyethane) sulfonic acid	PFEESA	113507-82-7

Appendix H - Data Review Guidelines for Analysis of PFAS in Non-Potable Water and Solids

General

These guidelines are intended to be used for the validation of PFAS using EPA Method 1633 for projects within the Division of Environmental Remediation (DER). Data reviewers should understand the methodology and techniques utilized in the analysis. Consultation with the end user of the data may be necessary to assist in determining data usability based on the data quality objectives in the Quality Assurance Project Plan. A familiarity with the laboratory's Standard Operating Procedure may also be needed to fully evaluate the data. If you have any questions, please contact DER's Quality Assurance Officer, Dana Barbarossa, at dana.barbarossa@dec.ny.gov.

Preservation and Holding Time

Samples should be preserved with ice to a temperature of less than 6°C upon arrival at the lab. The holding time is 28 days to extraction for aqueous and solid samples. The time from extraction to analysis for aqueous samples is 28 days and 40 days for solids.

Temperature greatly exceeds 6ºC upon arrival at the lab*	Use professional judgement to qualify detects and non-detects as estimated or rejected
Holding time exceeding 28 days to extraction	Use professional judgement to qualify detects and non-detects as estimated or rejected if holding time is grossly exceeded

*Samples that are delivered to the lab immediately after sampling may not meet the thermal preservation guidelines. Samples are considered acceptable if they arrive on ice or an attempt to chill the samples is observed.

Initial Calibration

The initial calibration should contain a minimum of six standards for linear fit and six standards for a quadratic fit. The relative standard deviation (RSD) for a quadratic fit calibration should be less than 20%.

The low-level calibration standard should be within 50% - 150% of the true value, and the mid-level calibration standard within 70% - 130% of the true value.

%RSD >20%	J flag detects and UJ non detects

Continuing Calibration Verification

Continuing calibration verification (CCV) checks should be analyzed at a frequency of one per ten field samples. If CCV recovery is very low, where detection of the analyte could be in question, ensure a low level CCV was analyzed and use to determine data quality.

CCV recovery <70 or >130%	J flag results

Blanks

There should be no detections in the method blanks above the reporting limits. Equipment blanks, field blanks, rinse blanks etc. should be evaluated in the same manner as method blanks. Use the most contaminated blank to evaluate the sample results.

Blank Result	Sample Result	Qualification
Any detection	<Reporting limit	Qualify as ND at reporting limit
Any detection	>Reporting Limit and >10x the blank result	No qualification
>Reporting limit	>Reporting limit and <10x blank result	J+ biased high

Field Duplicates

A blind field duplicate should be collected at rate of one per twenty samples. The relative percent difference (RPD) should be less than 30% for analyte concentrations greater than two times the reporting limit. Use the higher result for final reporting.

RPD >30%	Apply J qualifier to parent sample

Lab Control Spike

Lab control spikes should be analyzed with each extraction batch or one for every twenty samples. In the absence of lab derived criteria, use 70% - 130% recovery criteria to evaluate the data.

Recovery <70% or >130% (lab derived criteria can also be used)	Apply J qualifier to detects and UJ qualifier to non detects

Matrix Spike/Matrix Spike Duplicate

One matrix spike and matrix spike duplicate should be collected at a rate of one per twenty samples. Use professional judgement to reject results based on out of control MS/MSD recoveries.

Recovery <70% or >130% (lab derived criteria can also be used)	Apply J qualifier to detects and UJ qualifier to non detects of parent sample only
RPD >30%	Apply J qualifier to detects and UJ qualifier to non detects of parent sample only

Extracted Internal Standards (Isotope Dilution Analytes)

Problematic analytes (e.g. PFBA, PFPeA, fluorotelomer sulfonates) can have wider recoveries without qualification. Qualify corresponding native compounds with a J flag if outside of the range.

Recovery <50% or >150%	Apply J qualifier
Recovery <25% or >150% for poor responding analytes	Apply J qualifier
Isotope Dilution Analyte (IDA) Recovery <10%	Reject results

Signal to Noise Ratio

The signal to noise ratio for the quantifier ion should be at least 3:1. If the ratio is less than 3:1, the peak is discernable from the baseline noise and symmetrical, the result can be reported. If the peak appears to be baseline noise and/or the shape is irregular, qualify the result as tentatively identified.

Reporting Limits

If project-specific reporting limits were not met, please indicate that in the report along with the reason (e.g. over dilution, dilution for non-target analytes, high sediment in aqueous samples).

Peak Integrations

Target analyte peaks should be integrated properly and consistently when compared to standards. Ensure branched isomer peaks are included for PFAS where standards are available. Inconsistencies should be brought to the attention of the laboratory or identified in the data review summary report.

APPENDIX B: DATA VALIDATOR QUALIFICATIONS

PSG

DONALD C. ANNÉ
SENIOR CHEMIST

EDUCATION: M.S., Chemical Oceanography, Florida Institute of Technology, 1981
B.A., Earth Sciences, Millersville University of Pennsylvania, 1975

SPECIAL TRAINING: Certified 40-Hour OSHA Health and Safety
Certified 8-Hour OSHA Supervisory Course
Ground Water Geochemistry (NWWA)
Ground Water Pollution and Hydrology (Princeton Associates)
Quality Assurance Programs for Environmental Monitoring Data (Stat-A-Matrix)

PROFESSIONAL AFFILIATIONS: American Chemical Society (AFS), 1979-Present

EXPERIENCE SUMMARY:

Mr. Anné has more than 30 years of environmental chemistry experience specializing in data validation, environmental sampling, analytical methodologies, petroleum fingerprinting, laboratory audits, field sampling audits, and preparing Quality Assurance Project Plans and Quality Assurance Manuals. Mr. Anné's experience includes analytical laboratory work with gas chromatography, atomic absorption, infrared spectrometry and wet chemistry methods.

PROJECT EXPERIENCE:

Quality Assurance/Quality Control of Chemical Data

Mr. Anné has more than 30 years experience as a data validator and quality assurance officer. Mr. Anné has validated data for most EPA Regions and under several independent state programs, including the NYSDEC. He has performed laboratory and field audits as well as written Quality Assurance Project Plans. Mr. Anné has written, reviewed, and initiated laboratory Quality Assurance Manuals for laboratories to maintain their regulatory compliance. Typical project experience includes:

- Senior Chemist responsible for data validation. Reviewed chemical data for several projects under the New Jersey ISRA regulations. The clients included industry and utilities.

- Supervising Environmental Scientist responsible for data validation. Reviewed chemical laboratory data for adherence to QA/QC protocols for several key projects, including National Priorities List sites and RCRA Corrective Actions located in EPA Regions I, II, III, IV, V, and IX. Validated analytical data, outlined problems and actions to be taken, and qualified all affected data. Consulted with project managers on data usability, and recommended corrective actions to support project goals. Responded to comments made by regulators regarding data quality.

- Supervising Environmental Scientist recognized by the New York State Department of Environmental Conservation (NYSDEC) to perform third party data validation. Attended NYSDEC workshop on data validation as part of the requirements set forth by NYSDEC. Performed data validation in support of NYSDEC STARS and ASP programs as well as data in support of the NYSDEC Part 360 Regulations for landfills. Validated data for an Albany area municipal landfill.

- Supervising Environmental Scientist responsible for developing and preparing Quality Assurance Project Plans (QAPPs) for several state and federal Superfund sites and federal RCRA corrective action sites. Negotiated with regulators for the acceptance of the QAPPs. The sites were located throughout the eastern United States.

- Environmental Chemist responsible for developing a laboratory QA/QC program which fulfilled requirements of the EPA and agencies from the States of Texas and Louisiana. Implemented and managed the program throughout DOE's SPR Environmental laboratories. Received verbal commendations from EPA and the Texas Water commission on the QA/QC Program.

Environmental Chemistry

Mr. Anné is experienced in sampling soil, water, air, and wastes in accordance with federal and state guidelines. He has performed field sampling audits and prepared sampling plans for numerous projects in accordance with applicable programmatic requirements. Mr. Anné is familiar with the geochemical aspects of fate and transport of contaminants. Mr. Anné's typical project experience includes:

- Data manager for the Pennwalt Corporation's RCRA Corrective Action RFI Phase I program. The project included quantifying and characterizing soil contamination and hydrogeologic flow systems of 12 SWMUs at a fluorochemicals plant in Thorofare, New Jersey. Validated and prepared QA/QC reports for data generated during the project. Qualified all data in preparation of the final report. Work was performed under the direction of NJDEP.

- Project Chemist in charge of field sampling activities, including coordinating and scheduling all subcontracted laboratory work for more than 25 sites in Connecticut. Trained field teams in sampling techniques for soil, groundwater, and surface water; chain of custody requirements; sampling QA/QC protocols; and analytical requirements. Work was performed under the scrutiny of ConnDEP.

- Field Team Leader for a major hazardous waste drum excavation project. Supervised all field activities including site safety; excavation; removal, sampling, and over packing of drums; staging and sampling of contaminated soil; and preparation of samples. Coordinated excavation and laboratory subcontractors. Work was performed under the scrutiny of ConnDEP.

- Created an environmental monitoring program for the Bryan Mound site of DOE's Strategic Petroleum Reserve for testing ground water and surface water. Developed sampling protocols, frequency of sampling, and lists of target analytes. This program was designed to provide baseline data for pre-spill conditions in the event of a release. The site was under scrutiny by EPA Region V and the Texas Water commission.

- Project Chemist responsible for developing analytical QA/QC program that included sampling and chemical analyses of surface water, groundwater, soil, and sediment matrices as part of a Remedial Investigation/Feasibility Study (RI/FS). The RI/FS involved more than 25 sites throughout the State of Connecticut. Work was under the guidance of ConnDEP.

Analytical Chemistry

Mr. Anné has experience working in both fixed-base and mobile laboratories. His experience includes the use of gas chromatography, atomic absorption spectrometers, infrared spectrometers, and numerous wet chemistry and preparation equipment methods. He has served in the laboratory as an analyst, laboratory advisor, and QA officer. He has interfaced with regulators in the area of analytical chemistry and has experience in petroleum fingerprinting techniques and methods. Typical projects include:

- Performed bench scale experiments for St. Lawrence Zinc in order to obtain the optimum level of Phlotec necessary to treat discharged water to resolve an N.O.V. for the SPDES outfall. The optimum level of Phlotec would precipitate enough dissolved zinc for the water to meet the discharge requirement. Also performed routine analyses of samples after implementing the treatment, to insure that the proper concentration was being used.

- Environmental Chemist in charge of project to design updates for the DOE's laboratories at its SPR facilities. Evaluated IR and FT-IR instrumentation and personal computers to link with existing and future instrumentation. Wrote procedures for the acceptance of an alternative oil & grease method for NPDES permit monitoring by EPA Region V. Coordinated all site activities necessary for implementing upgrades.

- Environmental Chemist in charge of replacing obsolete total organic carbon (TOC) analyzers for the SPR laboratories. Evaluated state-of-the-art TOC analyzers and recommended replacement TOC analyzer. Negotiated with supplier and wrote technical specification for the bid process required by DOE. Supervised installation and set-up of all new TOC analyzers.

- Analytical Chemist for Berkley Products Company responsible for product development. Analyzed competitor's products and formulated new coatings with equal or better quality. Responsible for solvent operations which included managing the waste solvent recovery operations, solvent formulation, and manufacturing QA/QC. Worked with sales and manufacturing staff to address and resolve client complaints. Received two cash bonuses for suggestions on the manufacture of products which saved the company money.

- Analytical Chemist for the mobile laboratory responsible for sample preparation in support of several projects for a range of clients located in three EPA regions and in conjunction with several state agencies. Extracted, concentrated, and prepared water and soil samples for analyses by GC/FIND, GC/ECD, GC/PID, and GC/MS. Samples were prepared for PCB, pesticide, polynuclear aromatic hydrocarbon, and petroleum hydrocarbon analyses.

EMPLOYMENT:

2005 - present, Alpha Geoscience
1998 - 2005, Alpha Environmental Consultants, Inc.
1990 - 1998, McLaren/Hart
1986 - 1990, Fred C. Hart Associates
1985 - 1986, Boeing Petroleum Services
1982 - 1985, Petroleum Operations and Support Services
1981 - 1982, Dravo Utility Constructors
1979 - 1981, Florida Institute of Technology
1975 - 1979, Berkley Products Company

APPENDIX J: COMMUNITY AIR MONITORING PLAN

PSG

PARTNER

July 11, 2024

Mandy Yau
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
47-20 21st Street
Long Island City, New York 11101
Email: mandy.yau@dec.ny.gov

Subject: Community Air Monitoring Plan
Avant Gardner
140 Stewart Avenue & 111 Gardner Avenue
Brooklyn, New York, 07666
BCP Site No. C224258

Dear Ms. O'Connell:

This Community Air Monitoring Plan (CAMP) has been prepared by Partner Assessment Corporation (Partner) to address monitoring of intrusive activities to be conducted at 140 Stewart Avenue and 111 Gardner Avenue in Brooklyn, NY (the Site), and as requested by the State Department of Environmental Conservation (NYSDEC) for the Peters Dry Cleaning site (Site) in Long Island City, New York. Stewart Purchaser, LLC, the current owner of the Site, will be installing piles inside the building to install a second floor within the building. Partner will oversee this activity and implement the CAMP, as a health and safety measure, in accordance with the New York State Department of Health (NYSDOH) Generic CAMP (Appendix 1A).

This NYSDOH CAMP is a stand-alone companion document to the Site-specific health and safety plan (HASP) and is further defined below. The Site-specific HASP provides details related to health and safety for on-site activities for Partner personnel and the CAMP details air monitoring activities to protect the surrounding community. The owner's contractor will conduct work under their own work plan and HASP.

Purpose. This CAMP will be implemented during the excavation and removal of soils from the proximity of the Site. The purpose of the CAMP is to provide a measure of protection for the downwind community, more specifically off-site receptors including residents and workers, from potential airborne contaminant releases as a result of remedial work activities performed at the Site.

Particulate Air Monitoring. Particulate monitoring will be conducted during ground intrusive activities at the Site in accordance with the Fugitive Dust and Particulate Monitoring from DER-10 Technical Guidance for Site Investigation and Remediation (Appendix 1B). Dust and particulate monitoring will be conducted near the approximate upwind and downwind perimeters of the exclusion zone, when possible, or where dust generating operations are apparent. Dust monitoring may be suspended during periods of precipitation and snow cover.

Particulate air monitoring will be conducted with a Dusttrak (or equivalent device). This instrument is equipped with an audible alarm (indication of exceedance) and is capable of measuring particulate matter less than 10 micrometers in size (PM-10). It will continually record emissions (calculating 15-minute running average concentrations) generated during field activities. The dust monitoring devices will be checked and recorded periodically throughout the day of intrusive activities to assess emissions and the need for corrective action.

Particulate monitoring response and action levels include:

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (µg/m3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 µg/m3 above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 µg/m3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 µg/m3 of the upwind level and in preventing visible dust migration.

Volatile Organic Compound Air Monitoring. Volatile organic compound (VOC) air monitoring will be conducted in conjunction with the dust monitoring program. VOC air monitoring will be conducted using a RAE Systems MiniRAE 2000 VOC instrument (or a similar photoionization detector device) to provide real-time recordable air monitoring data. VOC monitoring will be conducted for ground intrusive (continuous monitoring) and non-intrusive activities (periodic monitoring).

VOCs will be monitored and recorded at the downwind perimeter of the immediate work area. Upwind concentrations will be measured before field activities commence and periodically throughout the day to establish background conditions. The downwind VOC monitoring device will also be checked periodically throughout the day to assess emissions and the need for corrective action.

VOC monitoring response and action levels include:

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.
- If the organic vapor level remains sustained above 5 ppm at the perimeter of the work area, activities must cease and work will be re-evaluated.

Weather conditions, including the prevailing wind direction, will be observed and recorded for each day of site activities. As work and weather conditions change throughout the day, the locations where the VOC monitoring devices are set up may be adjusted accordingly.

Documentation and Calibration: The VOC air monitoring device, such as a PID, shall be calibrated daily according to manufacturer's instructions and standard industrial hygiene practices, prior to the commencement of onsite intrusive activities. Calibration measurements will be recorded on the daily field log. Field measurements will be logged daily and available for State (NYSDEC and NYSDOH) personnel to review. The particulate monitoring device is factory calibrated on an annual basis. Upon completion of field activities, available monitored data recorded will be downloaded, evaluated and summarized in the Remedial Investigation Report.

Meteorological Data: Wind direction is the only relevant meterological data that may affect CAMP administration. To evaluate wind direction, a wind vane, or similar wind-direction determining instrument, will be utilized onsite. Wind direction will be established at the beginning of the work day and may be reestablished throughout the day as deemed necessary, if shifts in wind direction are observed. Wind direction will be utilized to determine placement of upwind and downwind CAMP stations, and will be noted on the daily field logs.

If you have any questions, please do not hesitate to contact David Lent at (914) 222-8011, dlent@partneresi.com

PSG ENGINEERING AND GEOLOGY, D.P.C.
Sincerely,

David R. Lent, P.G.
Technical Director,
Environmental Solutions Group

APPENDIX K: CITIZEN PARTICIPATION PLAN

PSG

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

Brownfield Cleanup Program

Citizen Participation Plan
for
Avant Gardner

July 2018

C224258
140 Stewart Avenue & 111 Gardner Avenue
Brooklyn, NY 11237

Contents

Section **Page Number**

1. **What is New York's Brownfield Cleanup Program? 3**
2. **Citizen Participation Activities..... 3**
3. **Major Issues of Public Concern..... 9**
4. **Site Information..... 9**
5. **Investigation and Cleanup Process 11**

Appendix A - Project Contacts and Locations of Reports and Information

Appendix B - Site Contact List

Appendix C - Site Location Maps

Appendix D - Brownfield Cleanup Program Process

* * * * *

Note: The information presented in this Citizen Participation Plan was current as of the date of its approval by the New York State Department of Environmental Conservation. Portions of this Citizen Participation Plan may be revised during the site's investigation and cleanup process.

Applicant: **Stewart Purchaser LLC & Gardner Purchaser LLC ("Applicant")**
Site Name: **Avant Gardner ("Site")**
Site Address: **140 Stewart Avenue & 111 Gardner Avenue, Brooklyn**
Site County: **Kings County**
Site Number: **C224258**

1. What is New York's Brownfield Cleanup Program?

New York's Brownfield Cleanup Program (BCP) works with private developers to encourage the voluntary cleanup of contaminated properties known as "brownfields" so that they can be reused and developed. These uses include recreation, housing, and business.

A *brownfield* is any real property that is difficult to reuse or redevelop because of the presence or potential presence of contamination. A brownfield typically is a former industrial or commercial property where operations may have resulted in environmental contamination. A brownfield can pose environmental, legal, and financial burdens on a community. If a brownfield is not addressed, it can reduce property values in the area and affect economic development of nearby properties.

The BCP is administered by the New York State Department of Environmental Conservation (NYSDEC) which oversees Applicants who conduct brownfield site investigation and cleanup activities. An Applicant is a person who has requested to participate in the BCP and has been accepted by NYSDEC. The BCP contains investigation and cleanup requirements, ensuring that cleanups protect public health and the environment. When NYSDEC certifies that these requirements have been met, the property can be reused or redeveloped for the intended use.

For more information about the BCP, go online at:
http://www.dec.ny.gov/chemical/8450.html .

2. Citizen Participation Activities

Why NYSDEC Involves the Public and Why It Is Important

NYSDEC involves the public to improve the process of investigating and cleaning up contaminated sites, and to enable citizens to participate more fully in decisions that affect their health, environment, and social well-being. NYSDEC provides opportunities for citizen involvement and encourages early two-way communication with citizens before decision-makers form or adopt final positions.

Involving citizens affected and interested in site investigation and cleanup programs is important for many reasons. These include:

- Promoting the development of timely, effective site investigation and cleanup programs that protect public health and the environment

- Improving public access to, and understanding of, issues and information related to a particular site and that site's investigation and cleanup process

- Providing citizens with early and continuing opportunities to participate in NYSDEC's site investigation and cleanup process

- Ensuring that NYSDEC makes site investigation and cleanup decisions that benefit from input that reflects the interests and perspectives found within the affected community

- Encouraging dialogue to promote the exchange of information among the affected/interested public, State agencies, and other interested parties that strengthens trust among the parties, increases understanding of site and community issues and concerns, and improves decision-making.

This Citizen Participation (CP) Plan provides information about how NYSDEC will inform and involve the public during the investigation and cleanup of the site identified above. The public information and involvement program will be carried out with assistance, as appropriate, from the Applicant.

Project Contacts

Appendix A identifies NYSDEC project contact(s) to whom the public should address questions or request information about the site's investigation and cleanup program. The public's suggestions about this CP Plan and the CP program for the Site are always welcome. Interested people are encouraged to share their ideas and suggestions with the project contacts at any time.

Locations of Reports and Information

The locations of the reports and information related to the site's investigation and cleanup program also are identified in Appendix A. These locations provide convenient access to important project documents for public review and comment. Some documents may be placed on the NYSDEC web site. If this occurs, NYSDEC will inform the public in fact sheets distributed about the site and by other means, as appropriate.

Site Contact List

Appendix B contains the site contact list. This list has been developed to keep the community informed about, and involved in, the site's investigation and cleanup process. The site contact list will be used periodically to distribute fact sheets that provide updates about the status of the project. These will include notifications of upcoming activities at the site (such as fieldwork), as well as availability of project documents and announcements about public comment periods.

The site contact list includes, at a minimum:

- Chief executive officer and planning board chairperson of each county, city, town and village in which the Site is located;
- Residents, owners, and occupants of the Site and properties adjacent to the Site;
- The public water supplier which services the area in which the Site is located;
- Any person who has requested to be placed on the site contact list;
- The administrator of any school or day care facility located on or near the Site for purposes of posting and/or dissemination of information at the facility;
- Location(s) of reports and information.

The site contact list will be reviewed periodically and updated as appropriate. Individuals and organizations will be added to the site contact list upon request. Such requests should be submitted to the NYSDEC project contact(s) identified in Appendix A. Other additions to the site contact list may be made at the discretion of the NYSDEC project manager, in consultation with other NYSDEC staff as appropriate.

Note: The first site fact sheet (usually related to the draft Remedial Investigation Work Plan) is distributed both by paper mailing through the postal service and through DEC Delivers, its email listserv service. The fact sheet includes instructions for signing up with the appropriate county listserv to receive future notifications about the site. See http://www.dec.ny.gov/chemical/61092.html .

Subsequent fact sheets about the site will be distributed exclusively through the listserv, except for households without internet access that have indicated the need to continue to receive site information in paper form. Please advise the NYSDEC site project manager identified in Appendix A if that is the case. Paper mailings may continue during the investigation and cleanup process for some sites, based on public interest and need.

CP Activities

The table at the end of this section identifies the CP activities, at a minimum, that have been and will be conducted during the site's investigation and cleanup program. The

flowchart in Appendix D shows how these CP activities integrate with the site investigation and cleanup process. The public is informed about these CP activities through fact sheets and notices distributed at significant points during the program. Elements of the investigation and cleanup process that match up with the CP activities are explained briefly in Section 5.

- **Notices and fact sheets** help the interested and affected public to understand contamination issues related to a site, and the nature and progress of efforts to investigate and clean up a site.

- **Public forums, comment periods and contact with project managers** provide opportunities for the public to contribute information, opinions and perspectives that have potential to influence decisions about a site's investigation and cleanup.

The public is encouraged to contact project staff at any time during the site's investigation and cleanup process with questions, comments, or requests for information.

This CP Plan may be revised due to changes in major issues of public concern identified in Section 3 or in the nature and scope of investigation and cleanup activities. Modifications may include additions to the site contact list and changes in planned citizen participation activities.

Technical Assistance Grant

NYSDEC must determine if the Site poses a significant threat to public health or the environment. This determination generally is made using information developed during the investigation of the Site, as described in Section 5.

If the site is determined to be a significant threat, a qualifying community group may apply for a Technical Assistance Grant (TAG). The purpose of a TAG is to provide funds to the qualifying group to obtain independent technical assistance. This assistance helps the TAG recipient to interpret and understand existing environmental information about the nature and extent of contamination related to the Site and the development/implementation of a remedy.

An eligible community group must certify that its membership represents the interests of the community affected by the Site, and that its members' health, economic well-being or enjoyment of the environment may be affected by a release or threatened release of contamination at the site.

As of the date the declaration (page 2) was signed by the NYSDEC project manager, the significant threat determination for the Site had not yet been made.

To verify the significant threat status of the site, the interested public may contact the NYSDEC project manager identified in Appendix A.

For more information about TAGs, go online at
http://www.dec.ny.gov/regulations/2590.html

Note: The table identifying the citizen participation activities related to the site's investigation and cleanup program follows on the next page:

Citizen Participation Activities	Timing of CP Activity(ies)
Application Process:	
• Prepare site contact list • Establish document repository(ies)	At time of preparation of application to participate in the BCP.
• Publish notice in Environmental Notice Bulletin (ENB) announcing receipt of application and 30-day public comment period • Publish above ENB content in local newspaper • Mail above ENB content to site contact list • Conduct 30-day public comment period	When NYSDEC determines that BCP application is complete. The 30-day public comment period begins on date of publication of notice in ENB. End date of public comment period is as stated in ENB notice. Therefore, ENB notice, newspaper notice, and notice to the site contact list should be provided to the public at the same time.
After Execution of Brownfield Site Cleanup Agreement (BCA):	
• Prepare Citizen Participation (CP) Plan	Before start of Remedial Investigation **Note:** Applicant must submit CP Plan to NYSDEC for review and approval within 20 days of the effective date of the BCA.
Before NYSDEC Approves Remedial Investigation (RI) Work Plan:	
• Distribute fact sheet to site contact list about proposed RI activities and announcing 30-day public comment period about draft RI Work Plan • Conduct 30-day public comment period	Before NYSDEC approves RI Work Plan. If RI Work Plan is submitted with application, public comment periods will be combined and public notice will include fact sheet. Thirty-day public comment period begins/ends as per dates identified in fact sheet.
After Applicant Completes Remedial Investigation:	
• Distribute fact sheet to site contact list that describes RI results	Before NYSDEC approves RI Report
Before NYSDEC Approves Remedial Work Plan (RWP):	
• Distribute fact sheet to site contact list about draft RWP and announcing 45-day public comment period • Public meeting by NYSDEC about proposed RWP (if requested by affected community or at discretion of NYSDEC project manager) • Conduct 45-day public comment period	Before NYSDEC approves RWP. Forty-five day public comment period begins/ends as per dates identified in fact sheet. Public meeting would be held within the 45-day public comment period.
Before Applicant Starts Cleanup Action:	
• Distribute fact sheet to site contact list that describes upcoming cleanup action	Before the start of cleanup action.
After Applicant Completes Cleanup Action:	
• Distribute fact sheet to site contact list that announces that cleanup action has been completed and that NYSDEC is reviewing the Final Engineering Report • Distribute fact sheet to site contact list announcing NYSDEC approval of Final Engineering Report and issuance of Certificate of Completion (COC)	At the time the cleanup action has been completed. **Note:** The two fact sheets are combined when possible if there is not a delay in issuing the COC.

3. Major Issues of Public Concern

This section of the CP Plan identifies major issues of public concern that relate to the Site. Additional major issues of public concern may be identified during the course of the site's investigation and cleanup process.

Currently the only issue of potential public concern identified is the presence of elevated levels of Volatile Organic Compounds, (VOCs) within the soils of the Site. Sub-Slab Depressurization Systems (SSDSs) are currently operating at both of the 140 Stewart Avenue and 111 Gardner Avenue buildings to prevent the intrusion of soil vapor into indoor air. The existing concrete, asphalt, and building slab serves as a cap to prevent direct contact exposure to potential site contamination.

The Site is not located in an Environmental Justice Area. Environmental justice is defined as the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.

Environmental justice efforts focus on improving the environment in communities, specifically minority and low-income communities, and addressing disproportionate adverse environmental impacts that may exist in those communities.

Since the Site is not in an Environmental Justice Area, there is no need to translate future fact sheets into another language.

4. Site Information

Appendix C contains a map identifying the location of the Site.

Site Description

The Site is located at 140 Stewart Avenue and 111 Gardner Avenue in the Williamsburg section of Brooklyn, NY. The Site is approximately 80,000 square feet and is currently developed with two (2) one-story buildings, one on the northeast corner (111 Gardner Avenue) and one on the southwest corner (140 Stewart Avenue), with a paved area, formerly used for parking, throughout most of the remaining areas of the site. The site is identified as Block 2977, Lots 1, 14, 15, and 16 on the New York City Tax Map. The site and surrounding area are currently zoned M3-1 (Manufacturing/Industrial). The property is used as an indoor and outdoor concert venue and event space.

The site is bound by Meserole Street to the north, railroad tracks to the south, Gardner Avenue to the east, and Stewart Avenue to the west.

History of Site Use, Investigation, and Cleanup

The Property appears to have been undeveloped land in 1888 and developed with an iron and steel works building at 140 Stewart Avenue and a liquid bleach manufacturer at 111 Gardner Ave by 1933.

At the 140 Stewart Ave portion of the site (Lot 1), the iron and steel works was in operation until approximately 1960. It was occupied by Skorr Steel Company, a stainless-steel supplier, from 1992 to approximately April 2016.

At the 111 Gardner Ave portion of the site (Lots 14, 15, 16), several chemical companies, including a liquid bleach manufacturer, previously occupied the 111 Gardner site from at least 1931 to 1995. Based on the review of Sanborn Maps, the manufacturing operations were conducted in a set of connecting buildings on the southeastern portion of this parcel. Regulatory records indicate chemicals were stored in four ASTs and drums; however, data included in the regulatory database only date back to the 1980s. No information is known on the use, storage or disposal of hazardous materials or the chlorine manufacturing operations prior to the 1980s. A spill from abandoned drums was reported for the facility in 1994. Corrective actions were completed and the case closed the same day. Additionally, property records indicate a release or substantial threat of release of ammonia, butyl cellosovle, monoethylamine, and glycol ether, at the Alfred Chemical Co. at 111 Gardner Ave on or about October 8, 1993. The New York City Department of Environmental Protection ordered remedial action and acknowledged compliance with the order on September 28, 1995.

The bleach house was no longer located on the property by 2001.

Filco Carting occupied the 111 Gardner Ave portion of the Site from 2000 to May 2016. Filco Carting operated a rubbish removal service and rented out roll-off containers. Additional improvements included a steel storage area, parking lots, and a roll-off storage container staging area. Filco Carting used a portion of their building as an active truck maintenance garage for routine maintenance and repair of its trucks. The garage used de-greasers, lubricants, hydraulic oils and antifreeze; all were stored in tanks, 55-gallon drums and other assorted containers.

Based on investigations conducted to date, the primary contaminants of concern for the site include chlorinated solvents (e.g. tetrachloroethylene (PCE) and associated degradation compounds), metals (e.g., arsenic, barium, chromium, mercury, and lead), VOCs, and Semi-Volatile Organic Compounds (SVOCs), all of which are present at the Site at concentrations in excess of applicable standards.

Soil sampling to date has found concentrations of metals (namely arsenic, barium, chromium, mercury and lead) and SVOCs at concentrations exceeding NYSDEC's Part 375 Commercial Use Soil Cleanup Objectives ("CSCOs") throughout the Site. Metal contamination in excess of the CSCOs appears to be ubiquitous throughout Site soil, without a specific area of concentration. The highest concentration of SVOC impacts identified to date was found in former boring DS-15, near the northeast corner of the 140 Stewart Ave building. Of note, shallow (3') samples found benzo(a)anthracene at, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenz(a,h)anthracene ,and indeno(1,2,3-cd)pyrene at concentrations that exceed the CSCOs. The highest concentration of chlorinated solvent impacts identified to date are concentrated in former boring SB-2, located beneath the 111 Gardner Ave building. However, these concentrations do not exceed the NYSDEC CSCOs.

Chlorinated solvent groundwater impacts were detected above the NYSDEC Ambient Water Quality Standard (AWQS) at a cluster of samples southwest of the 111 Gardner Ave building, near the center of Lot 14, at depths ranging from 18 to 45 feet below grade Groundwater SVOC exceedances of the AWQS are located throughout the Site, but are minor in magnitude and have only exceeded 1 µg/L in one instance, for bis(2-ethylhexyl)phthalate. Metal groundwater exceedances of the AWQS have been found throughout the Site. Most such exceedances are minor, except for those presented by lead, chromium, and arsenic, which have been found at greater than 1 magnitude of the AWQS.

Concentrations of VOCs requiring mitigation pursuant to NYS Department of Health's guidance matrices have also been found at the Site. Sub-slab soil gas concentrations below the 140 Stewart Avenue building, in combination with the indoor air concentrations, required mitigation per NYSDOH Soil Vapor/Indoor Air Matrix A; though indoor air concentrations alone were not elevated. In May 2016, a SSDS was activated at the 140 Stewart Ave building. Two (2) soil vapor investigations were conducted in the 111 Gardner Ave building in May of 2017. Sub-slab sampling indicated elevated levels of VOCs (PCE and TCE), as did soil vapor samples collected in the courtyard area near the southern boundary of the Site. Although the indoor air concentrations of VOCs at the 111 Gardner building were low on both sampling occasions, mitigation was required under the NYSDOH Soil Vapor/Indoor Air Matrices due to the elevated levels of VOCs detected in the sub-slab samples. Accordingly, an SSDS was installed in the 111 Gardner building in June 2017. As an additional measure to reduce potential risk of human exposure to soil vapor, on June 29, 2017, storm drain covers were installed in the outdoor venue area.

5. Investigation and Cleanup Process

Application

The Applicant has applied for and been accepted into New York's Brownfield Cleanup Program as a Volunteer. This means that the Applicant was not responsible for the disposal or discharge of the contaminants or whose ownership or operation of the site took place after the discharge or disposal of contaminants. The Volunteer must fully characterize the nature and extent of contamination on-site, and must conduct a "qualitative exposure assessment," a process that characterizes the actual or potential exposures of people, fish and wildlife to contaminants on the Site and to contamination that has migrated from the Site.

The Applicant in its Application proposes that the site will be used for restricted commercial purposes.

To achieve this goal, the Applicant will conduct investigation and cleanup activities at the Site with oversight provided by NYSDEC. The Brownfield Cleanup Agreement executed by NYSDEC and the Applicant sets forth the responsibilities of each party in conducting these activities at the site.

Investigation

The Applicant will conduct an investigation of the Site officially called a "remedial investigation" (RI). This investigation will be performed with NYSDEC oversight. The Applicant must develop a remedial investigation workplan, which is subject to public comment.

The site investigation has several goals:

1) Define the nature and extent of contamination in soil, surface water, groundwater and any other parts of the environment that may be affected;
2) Identify the source(s) of the contamination;
3) Assess the impact of the contamination on public health and the environment; and
4) Provide information to support the development of a proposed remedy to address the contamination or the determination that cleanup is not necessary.

The Applicant submits a draft "Remedial Investigation Work Plan" to NYSDEC for review and approval. NYSDEC makes the draft plan available to the public review during a 30-day public comment period.

When the investigation is complete, the Applicant will prepare and submit a report that summarizes the results. This report also will recommend whether cleanup action is needed to address site-related contamination. The investigation report is subject to review and approval by NYSDEC.

NYSDEC will use the information in the investigation report to determine if the Site poses a significant threat to public health or the environment. If the Site is a “significant threat,” it must be cleaned up using a remedy selected by NYSDEC from an analysis of alternatives prepared by the Applicant and approved by NYSDEC. If the Site does not pose a significant threat, the Applicant may select the remedy from the approved analysis of alternatives.

Interim Remedial Measures

An Interim Remedial Measure (IRM) is an action that can be undertaken at a site when a source of contamination or exposure pathway can be effectively addressed before the site investigation and analysis of alternatives are completed. If an IRM is likely to represent all or a significant part of the final remedy, NYSDEC will require a 30-day public comment period.

Remedy Selection

When the investigation of the site has been determined to be complete, the project likely would proceed in one of two directions:

1. The Applicant may recommend in its investigation report that no action is necessary at the site. In this case, NYSDEC would make the investigation report available for public comment for 45 days. NYSDEC then would complete its review, make any necessary revisions, and, if appropriate, approve the investigation report. NYSDEC would then issue a “Certificate of Completion” (described below) to the Applicant.

or

2. The Applicant may recommend in its investigation report that action needs to be taken to address site contamination. After NYSDEC approves the investigation report, the Applicant may then develop a cleanup plan, officially called a “Remedial Work Plan”. The Remedial Work Plan describes the Applicant’s proposed remedy for addressing contamination related to the site.

When the Applicant submits a draft Remedial Work Plan for approval, NYSDEC would announce the availability of the draft plan for public review during a 45-day public comment period.

Cleanup Action

NYSDEC will consider public comments, and revise the draft cleanup plan if necessary, before approving the proposed remedy. The New York State Department of Health (NYSDOH) must concur with the proposed remedy. After approval, the proposed

remedy becomes the selected remedy. The selected remedy is formalized in the site Decision Document.

The Applicant may then design and perform the cleanup action to address the site contamination. NYSDEC and NYSDOH oversee the activities. When the Applicant completes cleanup activities, it will prepare a final engineering report that certifies that cleanup requirements have been achieved or will be achieved within a specific time frame. NYSDEC will review the report to be certain that the cleanup is protective of public health and the environment for the intended use of the site.

Certificate of Completion

When NYSDEC is satisfied that cleanup requirements have been achieved or will be achieved for the Site, it will approve the Final Engineering Report (FER). NYSDEC then will issue a Certificate of Completion (COC) to the Applicant. The COC states that cleanup goals have been achieved, and relieves the Applicant from future liability for site-related contamination, subject to certain conditions. The Applicant would be eligible to redevelop the Site after it receives a COC.

Site Management

The purpose of site management is to ensure the safe reuse of the property if contamination will remain in place. Site management is the last phase of the site cleanup program. This phase begins when the COC is issued. Site management incorporates any institutional and engineering controls required to ensure that the remedy implemented for the Site remains protective of public health and the environment. All significant activities are detailed in a Site Management Plan.

An *institutional control* is a non-physical restriction on use of the Site, such as a deed restriction that would prevent or restrict certain uses of the property. An institutional control may be used when the cleanup action leaves some contamination that makes the Site suitable for some, but not all uses.

An *engineering control* is a physical barrier or method to manage contamination. Examples include: caps, covers, barriers, fences, and treatment of water supplies.

Site management also may include the operation and maintenance of a component of the remedy, such as a system that pumps and treats groundwater. Site management continues until NYSDEC determines that it is no longer needed.

Appendix A -
Project Contacts and Locations of Reports and Information

Project Contacts

For information about the site's investigation and cleanup program, the public may contact any of the following project staff:

New York State Department of Environmental Conservation (NYSDEC):

Bryan Wong
Project Manager
NYSDEC
Division of Environmental Remediation
One Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101
Tel: (718) 482-4905
Email: yukyin.wong@dec.ny.gov

Thomas V. Panzone
Public Participation Specialist
NYSDEC Region 2
47-40 21st Street
Long Island City, NY 11101
Tel: (718) 482-4953
Email: Thomas.panzone@dec.ny.gov

New York State Department of Health (NYSDOH):

Sara Bogardus
NYSDOH
Bureau of Environmental Exposure Investigation
Empire State Plaza Corning Tower Room 1787
Albany, NY 12237
Tel: (518) 402-7880
Email: BEEI@health.ny.gov

Locations of Reports and Information

The facilities identified below are being used to provide the public with convenient access to important project documents:

Bushwick Library
340 Bushwick Avenue
Brooklyn, NY 11206
Attn: Marc Waldron
Phone: 718-602-1348
Hours: Mon: 10:00 AM – 6:00 PM
Tues: 10:00 AM – 6:00 PM
Wed: 10:00 AM – 8:00 PM
Thurs: 1:00 PM – 8:00 PM
Fri: 10:00 AM – 6:00 PM
Sat: 10:00 AM – 5:00 PM
Sun: Closed

Brooklyn Community Board 1
435 Graham Avenue
Brooklyn, NY 11211
Attn: Dealice Fuller
Phone: 718-389-0009
Hours: 9:00 AM – 5:00 PM EVERY DAY

NYSDEC
Division of Environmental Remediation
One Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101
Attn: Bryan Wong
Phone: (718) 482-4905
Hours: Call for appointment

Appendix B - Site Contact List

Local Elected and Government Officials:

Hon Bill de Blasio
NYC Mayor
City Hall
New York, NY 10007

Hon Scott Stringer
NYC Comptroller
1 Centre Street
New York, NY 10007

Hon. Letitia James
Public Advocate
1 Centre Street
New York, NY 10007

Hon. Eric Adams
Brooklyn Borough President
209 Joralemon Street
Brooklyn, NY 11201

Marisa Lago
Commissioner
NYC Department of City Planning
120 Broadway, 31st Floor
New York, NY 10271

Dan Walsh, Director
NYC Office of Environmental Remediation
100 Gold Street - 2nd Floor
New York, NY 10038

Julie Stein
Office of Environmental Assessment & Planning
NYC Dept. of Environmental Protection
96-05 Horace Harding Expressway
Flushing, NY 11373

Hon Charles Schumer
U.S. Senator
780 Third Avenue, Suite 2301
New York, NY 10017

Hon. Kirsten Gillibrand
U.S. Senator
780 Third Avenue, Suite 2601
New York, NY 10017

Hon. Nydia Velazquez
U.S. House of Representatives
266 Broadway, Suite 201
Brooklyn, NY 11211

Hon. Antonio Reynoso
NYC Councilmember
244 Union Avenue
Brooklyn, NY 11211

Hon. Martin Malave Dilan
NYS Senator
3215 Fulton Street
Brooklyn, NY 11208

Hon. Maritza Davila
NYS Assemblymember
249 Wilson Avenue
Brooklyn, NY 11237

Gerald Esposito, District Manager
Dealice Fuller, Chairwoman
Environmental Committee Chair
Brooklyn Community Board 1
435 Graham Avenue
Brooklyn, NY 11211

Nancy T. Sunshine
Kings County Clerk
360 Adams Street, Room 189
Brooklyn, NY 11201

Community, Civic, Religious and Environmental Organizations

Antonia Yuille, Director
Consolidated Edison Corporate Affairs
30 Flatbush Avenue
Brooklyn, NY 11217

Raquel Queme, President
90th NYPD Police Precinct Council
211 Union Avenue
Brooklyn, NY 11211

Engine 206
FDNY
1201 Grand Street
Brooklyn, NY 11211

Open Space Alliance
86 Kent Avenue
Brooklyn, NY 11249

Adjacent Properties:

Long Island Railroad
Jamaica Station
Jamaica, NY 11435

NYC Department of Sanitation
127 Stewart Avenue
Brooklyn, NY 11237

Stewart Randolph LLC
60 East 56th Street
New York, NY 10022

Fung Trading Group Co. LTD
108 Varick Avenue
Brooklyn, NY 11237

D&M Lumber Products Co. Inc.
110 Varick Avenue
Brooklyn, NY 11237

Packin Realty Co. LLC
147 Stewart Avenue
Brooklyn, NY 11237

ASD Trading Corporation
505 Meserole Street
Brooklyn, NY 11237

RML Associates LLC
131 Princeton Street
Roselyn Heights, NY 11577

Seamark USA and IBCO USA LLC
516 Scholes Street
Brooklyn, NY 11237

IBCO USA
C/o Seamark USA
31 Tyler Avenue
Iselin, NJ 08830

Lucky Sons LLC
146 Stewart Avenue
Brooklyn, NY 11237

Best Choice Trading/Best Choice Seafood
146 Stewart Avenue
Brooklyn, NY 11237

Alexander Supply Corp.
135 Gardner Avenue
Brooklyn, NY 11237

Gardner Estate LLC
135 Gardner Avenue
Brooklyn, NY 11237

PSK Realty
Paul Minarsky
25 Pine Hill Court

Briarcliff Manor, NY 10510

585 Meserole Corp.
8 Washington Avenue
Spring Valley, NY 10977

JCL Paper
575 Meserole Street
Brooklyn, NY 11237

Zong Han Training
575 Meserole Street
Brooklyn, NY 11237

Grand Laser Works
575 Meserole Street
Brooklyn, NY 11237

Meserole Street Associates
430 Maspeth Avenue
Brooklyn, NY 11211

Long Island Railroad
113A Scott Avenue
Brooklyn, NY 11237

McLinch Corp
185 Thorpe Street
Fairfield, CT 06430

United Rentals
106 Gardner Avenue
Brooklyn, NY 11237

Davina Mansur
130 East 7th Street, 3rd Floor
New York, NY 10009

Local Schools & Daycare Centers:

JHS 162 The Willoughby
Amanda Lazerson, Principal
1390 Willoughby Avenue
Brooklyn, NY 11237

Public Water Supplier:

Vincent Sapienza
Commissioner, NYC Dept. of Environmental Protection
59-17 Junction Boulevard

Local Media Outlets:

Brooklyn Daily Eagle
16 Court Street
Brooklyn, NY 11241

Spectrum NY 1 News
75 Ninth Avenue
New York, NY 10011

New York Post
1211 Avenue of the Americas
New York, NY 10036

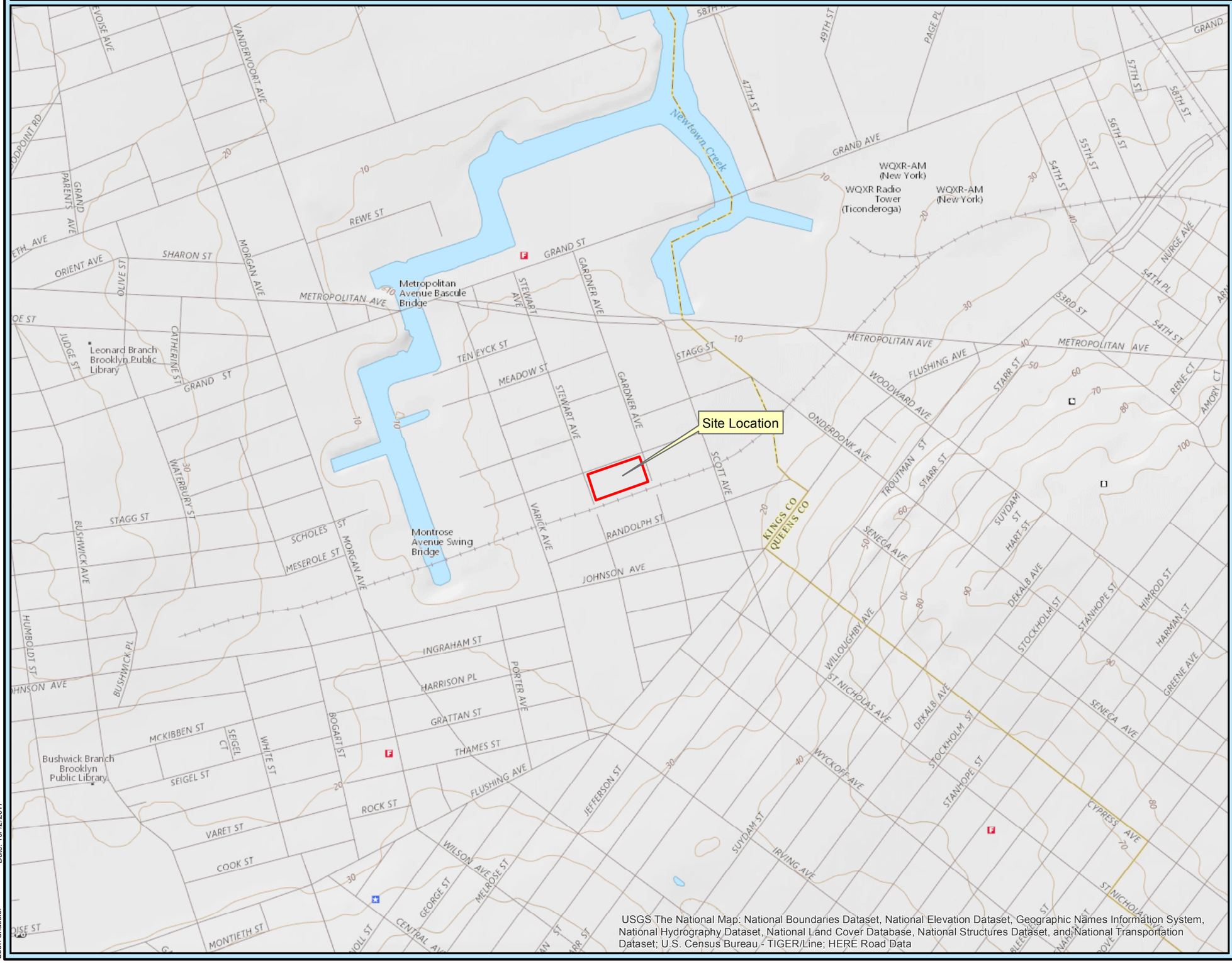
New York Daily News
4 New York Plaza
New York, NY 10004

Courier-Life Publications
1 Metro-Tech Center North - 10th Floor
Brooklyn, NY 11201

The Brooklyn Papers
1 Metrotech Center, Suite 1001
Brooklyn, NY 11201

Appendix C - Site Location Maps

Topographic Map — Brooklyn, New York



USGS The National Map: National Boundaries Dataset, National Elevation Dataset, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; U.S. Census Bureau - TIGER/Line; HERE Road Data

STEWART PURCHASER LLC

140 STEWART AVENUE &
111 GARDNER AVENUE
BROOKLYN, NEW YORK 11237

TOPOGRAPHIC MAP

Legend

Site Boundary

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Coord. System: NAD 1983 StatePlane New York East FIPS 3101 Feet
Projection: Transverse Mercator
False Easting: 492,125.0000
False Northing: 0.0000
Central Meridian: -74.5000
Scale Factor: 0.9999
Latitude Of Origin: 38.8333
Units: Foot US

0 350 700 1,400
Feet

PSG Engineering, DPC

362 Fifth Avenue, Suite 501
New York, NY 10001
NY Certificate of Authorization No. 103397

Tel.: 646-273-1290
Fax.: 646-652-5382
www.psg-engineering-ny.com

Sources:
Google Earth Imagery

SCALE
1 in = 700 ft

Job No: 17244793
File Name: Topo Map

DRAWN BY
ALH

DATE
10/12/2017

File: \\pac.localroot\Solutions\Jobs\Stewart Purchaser LLC\17243313-NY-ENG\GIS\Topo Map.mxd
User: alrassler
Date: 10/12/2017

Site Location Map

Brooklyn, New York

STEWART PURCHASER LLC

140 STEWART AVENUE &
111 GARDNER AVENUE
BROOKLYN, NEW YORK 11237

FIGURE 1
SITE LOCATION MAP

Legend

Site Boundary

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Coord. System: NAD 1983 StatePlane New York East FIPS 3101 Feet
Projection: Transverse Mercator
False Easting: 492,125.0000
False Northing: 0.0000
Central Meridian: -74.5000
Scale Factor: 0.9999
Latitude Of Origin: 38.8333
Units: Foot US

0 30 60 120
Feet

PSG Engineering, DPC

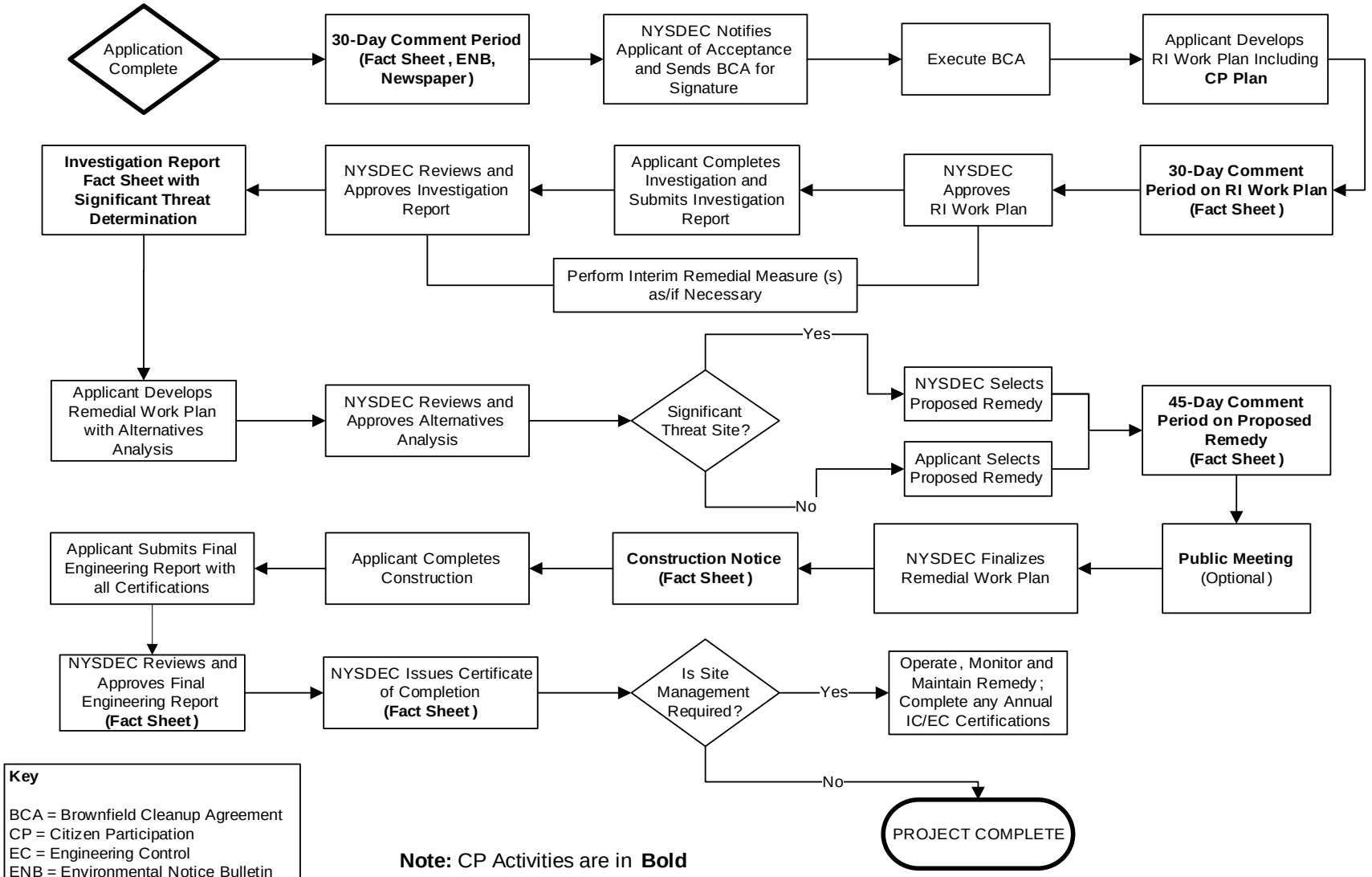
362 Fifth Avenue, Suite 501
New York, NY 10001
NY Certificate of Authorization No. 103397

Tel.: 646-273-1290
Fax.: 646-652-5382
www.psg-engineering-ny.com

Sources: Google Earth Imagery		SCALE 1 in = 60 ft
Job No: File Name: Fig1-Site Location Map	DRAWN BY ALH	DATE 06/14/2017

File: \\pac\local\root\Solutions\Jobs\Stewart Purchaser LLC\17244793-EN\GIS\Fig1-Site Location Map.mxd
User: alhassler
Date: 6/14/2017

Appendix D– Brownfield Cleanup Program Process



Key

BCA = Brownfield Cleanup Agreement
CP = Citizen Participation
EC = Engineering Control
ENB = Environmental Notice Bulletin
IC = Institutional Control
RI = Remedial Investigation

Note: CP Activities are in **Bold**

Division of Environmental Remediation

Remedial Programs
Scoping Sheet for Major Issues of Public Concern

Site Name: Avant Gardner

Site Number: C224258

Site Address and County: 140 Stewart Avenue & 111 Gardner Avenue, Brooklyn, Kings County, NY

Remedial Parties: Stewart Purchaser LLC and Gardner Purchaser LLC

Note: For Parts 1. – 3. the individuals, groups, organizations, businesses and units of government identified should be added to the site contact list as appropriate.

Part 1. List major issues of public concern and information the community wants. Identify individuals, groups, organizations, businesses and/or units of government related to the issue(s) and information needs. **Use this information as an aid to prepare or update the Major Issues of Public Concern section of the site Citizen Participation Plan.**

Currently the only issue of potential public concern identified is the presence of elevated levels of volatile organic compounds, (VOCs) within the soils of the Site. Sub-slab depressurization systems (SSDSs) are currently operating at both of the 140 Stewart Avenue and 111 Gardner Avenue buildings to prevent the intrusion of soil vapor into indoor air. The existing concrete, asphalt, and building slab serves as a cap to prevent direct contact exposure to potential site contamination.

How were these issues and/or information needs identified?

The information was obtained from previous environmental investigations conducted at the site including a Phase I Environmental Site Assessment Report (Jan. 2016), a Phase II Environmental Site Assessment Report (Feb. 2016), a Phase III Environmental Site Assessment Report (March 2016), a Sub-Slab Depressurization System Installation & Air Sampling Report for 140 Stewart Avenue (May 2016), a Sampling & Excavation Plan (Jan. 2017), a Limited Site Investigation Report (Feb. 2017), a Geotechnical Engineering Report (April 2017), a Remedial Investigation Work Plan (April 2017), a Soil Management Plan (April 2017), a Vapor Intrusion System Diagnostic Results Letter Report for 140 Stewart Avenue (May 2017), a Sub-Slab Depressurization System Activation Summary for 111 Gardner Avenue (June 2017), a Soil/Materials Management Plan (June 2017), and a Cap Operation and Maintenance Plan (June 2017). These investigations and reports determined historic uses of the site, as well as current soil, groundwater, soil gas, and indoor air quality at the site.

Part 2. List important information needed **from** the community, if applicable. Identify individuals, groups, organizations, businesses and/or units of government related to the information needed.

NA

How were these information needs identified?

NA

Part 3. List major issues and information that need to be communicated **to** the community. Identify individuals, groups, organizations, businesses and/or units of government related to the issue(s) and/or information.

It is important for the owners of the surrounding properties to be aware of the work that is proposed to be conducted in the upcoming months.

How were these issues and/or information needs identified?

The notification and awareness of the proposed work to the surrounding properties will be completed through distribution of fact sheets to the site contact list.

Part 4. Identify the following characteristics of the affected/interested community. This knowledge will help to identify and understand issues and information important to the community, and ways to effectively develop and implement the site citizen participation plan (mark all that apply):

a. Land use/zoning at and around site:
☐ **Residential** ☐ **Agricultural** ☐ **Recreational** ☐ **Commercial** ☒ **Industrial**

b. Residential type around site:
☒ **Urban** ☐ **Suburban** ☐ **Rural**

c. Population density around site:
☒ **High** ☐ **Medium** ☐ **Low**

d. Water supply of nearby residences:
☒ **Public** ☐ **Private Wells** ☐ **Mixed**

e. Is part or all of the water supply of the affected/interested community currently impacted by the site?
☐ **Yes** ☒ **No**

f. Other environmental issues significantly impacted/impacting the affected community?
☐ **Yes** ☒ **No**

g. Is the site and/or the affected/interested community wholly or partly in an Environmental Justice Area?
☐ **Yes** ☒ **No**

h. Special considerations:
☐ **Language** ☐ **Age** ☐ **Transportation** ☐ **Other**

Part 5. The site contact list must include, at a minimum, the individuals, groups, and organizations identified in Part 2. of the Citizen Participation Plan under 'Site Contact List'. Are *other* individuals, groups, organizations, and units of government affected by, or interested in, the site, or its remedial program? (Mark and identify all that apply, then adjust the site contact list as appropriate.)

☒ **Non-Adjacent Residents/Property Owners:** Click here to enter text.

☒ **Local Officials:** Click here to enter text.

☒ **Media:** Click here to enter text.

☒ **Business/Commercial Interests:** Click here to enter text.

☐ **Labor Group(s)/Employees:** Click here to enter text.

☐ **Indian Nation:** Click here to enter text.

☒ **Citizens/Community Group(s):** Click here to enter text.

☒ **Environmental Justice Group(s):** Click here to enter text.

☒ **Environmental Group(s):** Click here to enter text.

☒ **Civic Group(s):** Click here to enter text.

☐ **Recreational Group(s):** Click here to enter text.

☐ **Other(s):** Click here to enter text.

Prepared/Updated By: Erik Weber **Date:** 6/8/18

Reviewed Approved By: David J. Umbach, PG **Date:** 6/14/18

APPENDIX L: RESUMES OF KEY PERSONNEL

PSG

PARTNER

Kristine M. MacWilliams, PE
Managing Director, Subsurface Investigation

Education

B.S., Civil Engineering, University of North Carolina at Charlotte

Registrations

Registered Professional Engineer, North Carolina
Registered Professional Engineer, South Carolina
Registered Professional Engineer, New York
Registered Professional Engineer, Maryland

Training

OSHA 10-Hour Construction Safety
Hazardous Waste Site Supervisor
OSHA 40-Hour HAZWOPER
OSHA 8Hour HAZWOPER Refreshers, Current

Highlights

28 years of experience in Environmental Engineering and Consulting
28 years of Soil and Groundwater Contamination Investigations and Remediation
17 years of Risk Assessments
17 years of Vapor Intrusion Assessments and Risk Evaluations

Experience Summary

Ms. MacWilliams is the Managing Director for Subsurface Investigations overseeing investigations across the country. Ms. MacWilliams is a registered Professional Engineer in North and South Carolina, Maryland, and New York with 26 years of experience in managing and conducting site assessment and remediation projects.

Ms. MacWilliams' areas of expertise include assessment and remediation of chlorinated solvents, petroleum hydrocarbons and numerous other contaminants in soil, groundwater, and soil gas. In addition, Ms. MacWilliams has extensive experience in conducting Phase I Environmental Site Assessments associated with property transactions for a variety of clients in accordance with EPA's All Appropriate Inquiry (AAI).

Ms. MacWilliams has managed assessment and cleanup projects for private and municipal clients ranging in size from single sites to multi-site portfolios ranging in value from several thousand dollars to several million dollars throughout the country. Projects include: negotiations with regulatory personnel; permitting; formulation of conceptual site models; data gathering through various assessment techniques; data analysis and modeling; evaluation of remedial options; and site-specific remedial recommendations. Many of the sites have been a result of property redevelopment and have resulted in cleanup through Brownfields Programs or other voluntary clean-up programs. Ms. MacWilliams has experience in managing small short-term projects as well as implementation of large, long term projects including oversight of several contractors and various technical staff. Ms. MacWilliams has a thorough understanding of both federal and state environmental regulations and routinely interacts with the regulating agencies.

Environmental Assessment and Remediation

Ms. MacWilliams has experience in the management of and implementation of site assessment and remedial strategies to meet client needs and has been successful in negotiation with regulatory agencies in implementing the best remedial options for sites to work within the planned site use/existing site operations.

Ms. MacWilliams has experience conducting Phase II Assessment projects throughout the US ranging in size from sites with 2 – 3 borings to comprehensive site assessments.

Regulatory Interaction and Compliance

Ms. MacWilliams is knowledgeable of environmental federal, state and local compliance and regulatory permitting requirements, and is proficient in interacting with the regulatory agencies.

Project Experience

Solvents Contamination

Virginia Department of Environmental Quality (VADEQ) Voluntary Remedial Program (VRP), Chlorinated Solvents. Project Manager for VADEQ VRP for the assessment and remediation of former dry cleaning facility in Winchester Virginia. Responsibilities included preparing site conceptual models, assessing soil, groundwater, soil gas and indoor air followed by installation of a vapor mitigation system for a No Further Action determination.

North Carolina Dry-Cleaning Solvent Cleanup Act (DSCA) Program, Chlorinated Solvents. Program Manager for state-lead, multi-million dollar, 70 site portfolio for the assessment and remediation of existing and former dry cleaning facilities throughout North Carolina. Responsibilities included preparing site conceptual models, assessing soil, groundwater, soil gas and indoor air followed by Tier I/II Risk Assessment to determine remedial objectives or risk management options.

South Park Mall, Charlotte, North Carolina, Site Redevelopment Chlorinated Solvents. Lead consultant for high profile mall and associated property redevelopment. Expedited assessment and remediation of impacts attributable to former dry cleaning operations. Completed large-scale source removal effort to mitigate land use restrictions. Utilized onsite low temperature thermal desorption and offsite bioremediation to address the transportation and disposal of significant amounts of impacted soils. Completed fate and transport modeling to assess potential risk of groundwater discharge into a man-made public pond.

Bearing Manufacturer, Cheraw, South Carolina, Chlorinated Solvent Remediation. South Carolina Department of Health and Environmental Control (SC DHEC) enforced assessment and remediation of VOC-affected groundwater at manufacturing facility. Developed interim corrective action system based on fate and transport analysis and groundwater modeling. Implemented active corrective action efforts on-site consisting of a groundwater pump and treatment system to prevent continued offsite contaminant migration. Off-site assessment activities indicated mixing of down gradient VOC-affected groundwater with groundwater impacted by petroleum hydrocarbons attributed to neighboring property. Identified reductive dechlorination of VOCs occurring due to presence of electron donor source material (petroleum hydrocarbon/anthropogenic carbon substrate). Active offsite remediation not recommended as to not disrupt optimum biodegradation conditions.

Bearing Manufacturer, Spartanburg, South Carolina, Chlorinated Solvent Remediation. Project manager for SC DHEC enforced soil/groundwater assessment and remediation at a manufacturing facility. Primary concern was the discharge of dissolved phase VOCs into down gradient surface water body. Developed remediation strategy consisting of a mobile dual phase extraction system to remove source and reduce down gradient contaminant mass. Phytoremediation strategy using riparian corridor of poplar trees developed as contingency plan in the event that VOC concentrations in the surface water body do not decrease.

Camelot Dry Cleaners, Winston-Salem, North Carolina, Chlorinated Solvents, Vapor Mitigation. Assessed and remediated vapor impacts attributable to a former dry cleaning facility located in Winston-Salem, North Carolina. Dry cleaning operations were conducted between 1971-1992 at the site and PCE was used as a dry cleaning solvent. The site now operates as a grocery store. The results of the assessment activities at the site indicated that the impacts most likely occurred in the rear of the grocery store, which is assumed to be the possible location of the dry cleaning machine. Initial assessment of the sub-slab vapor (SSV) and soil gas (SG) samples yielded extremely high VOC concentrations exceeding the state regulatory standards for an industrial site. A sub-slab vapor assessment using micro insert points as well as conducted a radius of influence (ROI)/Pilot test under the building sub-slab. The ROI test results helped to evaluate/determine the required spacing of the extraction points to provide thorough coverage for the design of the sub-slab depressurization system to limit soil gasses/sub-slab vapors from entering the building. Designed and implemented sub-slab depressurization system so as to not interfere with current site operations.

Former Dry Cleaners, Spenser, North Carolina, Chlorinated Solvents. Responsible for assessment and remediation of impacts attributable to a former dry cleaning facility. Dry cleaning operations were conducted at the site from 1964 to 1995 and currently resides in a strip mall. Assessment activities indicated extremely elevated, yet localized area of soil impacts and a fairly significant groundwater contaminant plume beneath a residential neighborhood. A Soil Vapor Extraction (SVE) was recommended as a remedial option that would address the soil impacts, mitigate vapor impacts, and avoid extensive sub grade excavation that could lead to possible building undermining. Conducted a SVE pilot test determine the suitability and effectiveness of SVE for remediating soil impacts at the site. Completed design and construction of the SVE system based on the results of the pilot test.

Former Dry Cleaner, Morehead City, North Carolina, Chlorinated Solvents. Project manager for assessment and remedial activities pertaining to soil and groundwater impacts attributed to former dry cleaning activities at the Morehead Plaza. In-situ source area and partial plume remedial activities implemented to decrease environmental liability as part of a potential property transaction.

Former Dry Cleaner, Asheville, North Carolina, Chlorinated Solvents. Performed assessment and remediation on impacts identified at an abandoned dry cleaning facility located in Asheville, North Carolina. Dry cleaning operations were conducted at the site from 1980 to 2007 and the site has been permanently out of service and vacant since. The results of assessment activities completed indicated the origin of impacts most likely occurred at the rear of the former dry-cleaning facility adjacent to the former dry cleaning machine as well as directly behind the building where dumping of spent solvents may have occurred. Soil impacts outside the back of the building are located in close proximity to a former church which has been redeveloped into a state-of-the-art recording studio employing the use of low frequency sensitive recording equipment. Indoor air VOC-impacts, likely attributable to vapor intrusion occurring from beneath and outside the back wall of the facility, have been detected at concentrations at least 100X the applicable indoor air risk based screening levels. Implemented interim remedial measures to accommodate the owner's redevelopment and

leasing schedule for the property. To mitigate vapor intrusion from beneath and outside the back wall of the existing building a partial excavation of impacted soils was performed where accessible. Due to construction restraints inside the building, the excavation was only advanced deep enough to accommodate a sub slab vapor depressurization system. In other areas of the building where the floor is elevated above a crawl space, a modified crawl space depressurization is planned for installation.

Various Contaminants

Commercial Property, Charlotte, North Carolina, Methane. Project manager for assessment and mitigation of explosive conditions created by accumulation of methane gas beneath commercial real-estate development. Origin of methane gas determined to be decay of improperly buried organic material present in construction fill. Oversaw design and construction of both passive and active vapor recovery systems beneath existing structures. Worked with Mecklenburg County Building Standards Department on obtaining construction and operation permits for tenants to occupy structures.

GE Apparatus Service Facility, Charlotte, North Carolina, PCBs and Chlorinated Solvents. Project manager for the remediation of PCB and chlorinated solvent impacted sediment, soil and groundwater within the North Carolina Registered Environmental Consultant Program. Dual-Phase Extraction selected to address immiscible phase residual source delineated on-site. Long term negotiations with CSX to obtain off-site access agreements to remediate impacted soils beneath active rail lines. Evaluating options to remediate impacts attributable to transport of impacted sediments from the site through the storm water sewer system and offsite tributary stream.

Florida Wire & Cable, Jacksonville, Florida, Lead Impacted Groundwater. Project manager for FDEP enforced assessment and remediation of lead-impacted groundwater. Implemented interim remedial action by lining surface water ditch with impermeable material to mitigate groundwater discharge to surface water in support of long-term groundwater monitored natural attenuation.

Landfill Consulting

Textile Manufacturer, Closed Landfill Site. Site Remedial Investigation/Focused Feasibility Study and Baseline Risk Assessment, South Carolina. Responsible for managing, developing, and performing the site characterization of a 14-acre closed landfill site in South Carolina. Activities included: development of a Remedial Work Plan for performing the Remedial Investigation/Focused Feasibility Study (RI/FFS) and Baseline Risk Assessment (BRA); sampling of groundwater, river sediments, soil, and river surface water with the United States Environmental Protection Agency (USEPA) Region IV; development, preparation, and implementation of an Early Final Action Work Plan to remove and dispose of surface debris; preparation of a RI Report; evaluation of potential remediation options for the Site; negotiations and meetings with USEPA, SC DHEC staff, USEPA Risk Assessors, and the client

Textile Manufacturer, Closed Landfill Site. Non-Time-Critical Removal Action. Responsible for design and construction of a Removal Action which consisted of excavation of on-site soils and construction of an Engineered Cap consisting of a 40-rnil low-linear density polyethylene liner with approximately 30 inches of protective cover fill which resulted in a No Further Action Record of Decision from EPA.

Additional Consulting

Environmental Services, City of Charlotte, Various. Served as Program Manager for the City of Charlotte Unspecified Services Contract. Managed and conducted Phase I/Phase II Environmental Assessments for

the City of Charlotte, Engineering and Property Management for numerous projects associated with roadway widening, storm water projects and projects impacted by environmental concerns within the City's real estate group.

USPS, Multiple Sites, North and South Carolina, Various. Project Manager on several environmental assessment projects in North and South Carolina. Completed several Phase I and Phase II Environmental Site Assessment projects in accordance with ASTM and USPS guidelines. Completed all aspects of underground storage tank removal, coordinated limited site investigation to obtain closure and assisted with installation of new above ground storage tank.

Door Manufacturer, Multiple Sites Throughout U.S., Phase I/II Limited Compliance. Managed Phase I/Phase II and limited compliance assessments for door manufacturing company for several sites as part of a potential acquisition. Included coordination with several state regulatory agencies, recommendations for additional assessment prior to the acquisition and estimated remedial costs where necessary.

Contact

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PARTNER

David Lent, P.G., LEP
Senior Project Manager

Education

B.A. Geology, State University at Buffalo

Registrations

Professional Geologist (P.G.), NY #00514-1
Licensed Environmental Professional (LEP), CT #644

Training

6 Graduate Credits, Hydrogeology, Wright State University, Dayton, OH.
3 Graduate Credits, Environmental Law, Wright State University, Dayton, OH.
40 Hr. OSHA HAZWOPER Training
8. Hr. OSHA HAZWOPER Refresher, March 2019
8 Hr. OSHA HAZWOPER Level B Safety Training
10 Hr. OSHA Training for the Construction Industry

Highlights

Mr. Lent is a New York State licensed Professional Geologist and a Connecticut Licensed Environmental Professional with more than 35 years of experience servicing client needs; identifying, characterizing and addressing complex environmental risk and valuation issues, nationwide. Mr. Lent facilitates and implements accurate and efficient environmental due diligence investigations, subsurface characterization and cost-effective site mitigation solutions. Mr. Lent has expertise in technical proposal development and managing complex subsurface investigations and remediation projects and has sound knowledge and understanding of environmental regulations, effectively fulfilling objectives of private and municipal clients, commercial real estate interests, financial institutions, and legal counsel.

Experience Summary

Mr. Lent is a Senior Project Manager with Partner's Environmental Solutions Group. In this role, Mr. Lent is responsible for managing, coordinating and implementing solutions-oriented site investigation and mitigation a wide array of activities including: Subsurface Investigations, hydrogeologic and geologic studies for environmentally impacted properties, geophysical studies, underground storage tank (UST) closures, vapor intrusion investigations, emerging contaminants (PFAS) investigations, third-party review, remedial action oversight, Brownfield Cleanup Program (BCP) investigations / remediation, Remedial Investigation/Feasibility Studies (RI/FS) projects and solid/petroleum/hazardous waste remediation. Mr. Lent has experience with Federal and State regulatory programs.

Project Experience

Connecticut Property Transfer Act Site Characterization / Remediation, Stamford Connecticut - Mr. Lent is currently managing the characterization and cleanup of a former auto repair / auto body facility located in Stamford, Connecticut. Based on historical use of the Site for automotive body repair, the Site meets the definition of an Establishment as defined by §22a-134 of the Connecticut General Statutes. Prior assessments of the Site identified that soils were impacted by polycyclic aromatic hydrocarbons (PAHs) and heavy metals, including arsenic and lead Site activities and a site-wide layer of historic fill. Partner completed and submitted to the Connecticut Department of Energy and Environment (CT DEEP) a Form III and

Environmental Condition Assessment (ECAF) Form, fully characterized all areas of concern (AOCs) on the Site, and successfully remediated soil hot spots, with the objective of achieving compliance with residential standards via 95% Upper Confidence Level statistical averaging. Post-remediation activities, including site groundwater monitoring and reporting are currently ongoing.

Groundwater Remediation, Westbrook, Connecticut - Mr. Lent is currently managing the remediation Leaking Underground Storage Tank (LUST) case at a marina located in Westbrook, Connecticut. Previous attempts by other consultants to remediate a gasoline-contaminated groundwater plume proved to be unsuccessful due to the tidal influence, which resulted in a greater than 10 ft smear zone, the heterogeneity of subsurface soils, and restrictions to horizontal groundwater flow related to the Site's existing seawalls and bulkheads. Partner utilized the large tidal swings to excavate soils at low tide, successfully removing more than 400 tons of source soils below the water table to a depth of 12 feet. Post-remediation groundwater monitoring and reporting is currently ongoing.

Emerging Contaminants (PFAS) Site Characterization, Upstate New York - Mr. Lent managed a New York State Superfund Site Characterization Investigation at a municipal airport to characterize on-site and off-site environmental impacts related to emerging contaminants, including polyfluoroalkyl substances (PFAS) associated with historical use of Aqueous Film-Forming Foam (AFFF) for firefighting and training activities, as well as PFAS and 1,4-dioxane impacts related to two previously closed landfills on the site. The scope of the investigation included the advancement of soil borings and monitoring wells site-wide, with associated soil and groundwater sampling; groundwater sampling of previously installed monitoring wells; surface water and sediment sampling from on-site ponds and storm drainage features; on-site potable well sampling and off-site residential well sampling; coordination with the New York State Department of Environmental Conservation (NYSDEC), New York State Department of Health (NYSDOH), County officials and legal counsel, and reporting.

Dry Cleaner Remediation, Four Strip Shopping Centers, Dallas, Texas - Mr. Lent managed the concurrent investigation and remediation of four commercial strip shopping centers located in Plano, Richardson, Arlington and Highland Park, Texas. Each of these projects began with a Phase II ESA to investigate active on-site dry cleaners. In each case, the Phase II ESA identified significant impacts to subsurface soils and groundwater by the dry-cleaning solvent tetrachloroethene (PCE) and related degradation products of PCE. All four properties were entered individually into the Texas Commission on Environmental Quality (TCEQ) Voluntary Cleanup Program (VCP). Remedial investigation/feasibility studies were then conducted concurrently under TCEQ-approved work plans to delineate the full extent of subsurface contamination and facilitate selection of an appropriate remedial action plan. Based on the RI/FS findings, in-situ chemical oxidation (ISCO) was selected and approved by TCEQ for three of the four properties, and monitored natural attenuation was selected as the remedy for the fourth property. ISCO treatment consisted of a series of injections under approved Injection Control Permits of an aggressive Fenton's reagent mixture. Delivery of the reagents was hindered due to the presence of low-permeability clayey soils. Soil permeability was enhanced via hydraulic fracturing. TCEQ case closure was issued for each site.

42-Property Rush Phase II ESA Portfolio, Nationwide - Mr. Lent successfully managed expedited Phase II ESAs on a portfolio of 42 individual commercial retail properties located nationwide. The Phase II ESAs were initiated and completed between Thanksgiving and Christmas to support a year-end closing schedule. Each of the properties was situated on former gas station and/or dry-cleaning facility sites. The scope of the assessments included ground penetrating radar surveys; advancement of soil borings and temporary monitoring wells site-wide; soil and groundwater sampling, and reporting.

Petroleum Spill Remediation, Private Day Camp, Armonk, New York - Mr. Lent managed the investigation and cleanup of a gasoline-contaminated soil and groundwater at a private summer day camp. The spill had occurred as a result of releases from three leaking gasoline USTS that were utilized for decades to fuel facility trucks and landscaping equipment. The scope of work included a Phase II ESA; removal of the USTs, gas pump and appurtenances; a remedial investigation to delineate the nature and extent of soil and groundwater impacts on the subject property and an adjacent residential property; excavation and off-site disposal of petroleum-contaminated soils; vacuum extraction of product, light nonaqueous phase liquid (LNAPL) and dissolved-phase gasoline contaminated groundwater; and groundwater treatment using Oxygen Release Compounds (ORC Advanced®). Mr. Lent successfully obtained regulatory closure from the Westchester County Health Department and NYSDEC prior to the start of the facilities' summer season, which facilitated the release of escrow funds held back by a lender pending successful completion of the remediation.

Groundwater Remediation, Former Manufacturing Facility, Port Jervis, New York - Mr. Lent managed the investigation and cleanup of a former janitorial manufacturing facility under the NYSDEC BCP. Phase I and Phase II ESA investigations identified multiple petroleum USTs and historical use of chlorinated solvents. Groundwater was identified to be contaminated with trichloroethene (TCE) and petroleum-related compounds. The scope of work included a remedial investigation, UST removals, petroleum-contaminated soil excavation and groundwater remediation via ISCO technology. Site closure was granted by NYSDEC within one year of project initiation and the NYSDEC highlighted this site cleanup in their BCP brochure.

Affiliations

American Institute of Professional Geologists - Certified Professional Geologist (CPG)

Contact

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PARTNER

Ally Hassler
Project Manager

Education

B.S. Earth and Space Systems, West Chester University of Pennsylvania

Training

OSHA 40-Hour HAZWOPER
OSHA 30-Hour Construction
OSHA 30-Hour General Industry
OSHA 10-Hour Construction Safety and Health
Residential Radon Measurement Provider
NJDEP – Regulatory Training in Underground Storage Tanks
NJDEP – Groundwater in Fractured Bedrock
NJDEP – Effective Environmental Field Sampling and Data Collection

Highlights

11+ years of experience in the environmental consulting industry
11+ years of experience in the site mitigation industry
11+ years in the field conducting subsurface investigations, remediation investigations and implementing remediation action.
6+ years of experience in community air monitoring for large scale construction sites
6+ years of experience ArcGIS mapping and figure design
Experience in technical report writing (specializing in NJDEP, NYSDEC)
Experience in regulatory compliance and operations and maintenance plans
Experience with superfund grants and proposal writing

Experience Summary

Currently Ms. Hassler is involved in remediation and site mitigation services focusing on sites that are in the New Jersey Department of Environmental Protection Site Remediation Program and New York City Department of the Environment Brownfields Program. Ms. Hassler's roles consists of managing specific cases including scheduling project tasks, performing project task, and report writing. Ms. Hassler has experience dealing with numerous regulatory agencies such as the NJDEP, NYSDEC, NYCDEP, and PADEP.

Ms. Hassler is responsible for facilitating field preparations, assisting during field activities; and, assisting in the preparation of figures, analytical tables, Health & Safety Plans, Preliminary Assessments, Phase 1 and Phase 2 Environmental Site Assessments, Remedial Action Work Plans, Remedial Investigation Reports, Grant Packages, Receptor Evaluations, and Remedial Action Reports.

Ms. Hassler has an in-depth knowledge and background in geology and stratigraphy. Ms. Hassler has installed numerous groundwater monitoring and recovery wells to model groundwater flow direction and monitor groundwater conditions. Ms. Hassler has conducted high-resolution site characterizations utilizing Membrane Interface Probes (MIP) to delineate and characterize sites in NJ and NY. Ms. Hassler has conducted in-situ chemical oxidation and bio-remediation of site to gain regulatory closure. Ms. Hassler also has experience in Community Air Monitoring and Qualitative Human Health Exposure Assessments. Ms. Hassler has monitored and delineated methane and lower explosive limit (LEL) monitoring at active and post-closure landfills.

Subsurface and Multi-Phase Investigations

Community Air Monitoring Program Setup and Implementation
Groundwater, Soil, Indoor Air & Soil-Gas Sampling
High-Resolution Site Characterizations/MIP Investigations
Historic Fill, Drycleaner, Industrial and Gas Station Investigations
In-Situ Chemical Oxidation & Bio-remediation
Soil Management and Continuous Air Monitoring (particulate, multi-gas)
Horizontal and Vertical Delineation
Free Product Recovery and Remediation
Monitoring Well Installations (Direct push, air rotary, mud rotary, and hollow stem augers)
Bedrock Investigations
UST and AST Investigations and Closures

Environmental Consulting

Proposal Writing and Remediation Cost Estimates
NJDEP Superfund Grants

Report Writing

NJDEP Preliminary Assessments
Site Investigations
NJDEP Receptor Evaluations and Well Searches
Remedial Investigations
Remedial Action Workplans, Remedial Action Reports, and Remedial Action Outcomes
Water Supply Evaluations and Water Supply Sustainability Reports
O&M Plans: AST/USTs, Asbestos, Mold, Lead Based Paint
NYCDEP Office of Environmental Remediation VCP and BCP
NYSDEC Brownfield Cleanup Program
Phase 1 and Phase 2 Environmental Site Assessments
Community Air Monitoring Plans (CAMPs)
Health and Safety Plans (HASPs)
Soil Managements Plans (SMPs)
Spill Prevention, Control, and Countermeasure (SPCC) Plans

Other Skills

ArcGIS
Microsoft Excel

Project Experience

Elmwood Park, New Jersey. The site was destroyed in a fire and was very high-profile. Partner did continuous perimeter air monitoring while asbestos-contaminated debris were removed from the site.

Queens, New York. The site enrolled in the NYCDEP Voluntary Clean-up Program to address and clean up historic fill. Partner advanced soil borings and temporary well points to delineate subsurface impacts. Partner did continuous air monitoring and soils management on a fast-track deadline while building construction was occurring.

Overlook Medical Center, New Jersey. Partner conducted a large site-wide waste characterization sampling Partner did continuous air monitoring and soils management on a fast-track deadline while building construction was occurring.

Brooklyn, New York. The site enrolled in the NYSDEC Brownfield Cleanup Program to address and clean up historic contamination. Partner conducted soil vapor and indoor air sampling, membrane interface probe (MIP) characterization, and advanced soil borings and permanent/temporary well points to delineate subsurface impacts. Partner did continuous air monitoring and soils management on a fast-track deadline while building construction and renovations were occurring.

Readington, New Jersey. Partner delineated soil and groundwater contamination from an on-going dry cleaner release. Partner installed numerous groundwater monitoring wells at the site including a deep bedrock well for vertical delineation. Partner used a high-resolution site characterization method using a membrane interface probe (MIP) to log in 3-dimensions the plume of TCE and PCE in groundwater and shallow soils. Partner addressed the issue with In-Situ Chemical Oxidation into the plume.

Berywn Shopping Center, Berwyn, Pennsylvania. The site enrolled in the PADEP Act 2 program to address and clean up a dry cleaner release of chlorinated solvents. Partner advanced soil borings and temporary well points to delineate subsurface impacts. Partner also installed 9 monitoring wells and one permanent sub-slab soil gas point to monitor and evaluate the plume of TCE and PCE in the groundwater.

Affiliations

Sigma Gamma Epsilon – The National Honor Society for the Earth Sciences.

Contact

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PARTNER

Peter Cerny
Staff Scientist

Education

Bachelor of Arts, Environmental Studies, Ramapo College of New Jersey

Training

40-Hour HAZWOPER
10hr OSHA for Construction

Highlights

Phase II Subsurface Investigations
Remediation Investigations
Remediation Reviews

Experience Summary

Mr. Cerny is a Staff Scientist at Partner Engineering and Science, Inc. (Partner). His responsibilities include conducting field tasks, such as, groundwater sampling and subsurface investigation oversight, as well as reporting, data entry and completion of regulatory documents.

Mr. Cerny performs Phase II Subsurface Investigations, Remediation Investigations and Reviews for a variety of client types on various types of commercial properties based on the standard outline in ASTM E2018-15. The building types observed include: office buildings, hotels, multi-family developments, industrial properties and recreational facilities.

Contact

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PARTNER

Robert Hazard
Site Mitigation
Project Scientist

Education

Bachelor of Science, Environmental Science, Stockton University, NJ

Training

40-Hour OSHA HAZWOPER Training/8-Hour OSHA Refresher Training
30-Hour OSHA Construction Safety Training
10-Hour OSHA Construction Safety Training
OSHA Confined Space Safety Training
Rutgers University Groundwater and Hydrology Continuing Education
Various Site-Specific Safety Training Courses

Highlights

10+ years working on environmental remediation and engineering projects
Project management experience related to various construction and remediation projects in New York City.
Technical writing and reporting skills gained from preparation of, but not limited to, Phase I & II Environmental Site Assessments, Remedial Investigation Reports, Remedial Action & Closure Reports, Subsurface Investigation Reports, Site Management Plans, Sub-Slab Depressurization Systems Inspection Reports, Groundwater Sampling Summaries, Daily Field Activity Reports, etc.
Experienced in air, water, and soil sample collection utilizing various sampling equipment: Photoionization Detector (PID), Geoprobe, hand auger, DustTrak aerosol monitor, VelociCalc meter, VaporPin®, Helium Shroud, Bosch hammerdrill, Summa canister, submersible and non-submersible pumps, Water quality multi-meter, multi-gas monitor, landfill gas meter, etc.

Experience Summary

Mr. Hazard is a Project Scientist for Partner Engineering and Science, Inc. (Partner) and has over 10 years of experience coordinating with Licensed Site Remediation Professionals (LSRPs) and Professional Engineers in due diligence, environmental assessments, remedial investigations, remedial actions, and construction projects.

Mr. Hazard is experienced in field collection and analysis of soil, water, and air samples. His experience includes collection of samples in accordance with all local, state, and federal requirements from numerous residential, commercial, and industrial locations. This includes submission of samples to certified laboratories under standard chain-of-custody protocol and within required analysis hold times. Mr. Hazard has extensive knowledge with oversight of soil boring installation by Geoprobe® equipment, using a hand auger, and field soil screening by use of PID, visual, and olfactory methods. Water sampling knowledge includes proficiency with collection of groundwater and wastewater samples by use of submersible and non-submersible pumps, bailers, and additional diverse equipment. Air sampling knowledge includes installation and collection of sub-slab soil vapor samples through collection methods using helium shrouds, shut-in-kits, and water dams, and the collection of ambient/indoor air samples.

Mr. Hazard has assisted in field oversight and management for construction-related remediation projects at various sites in the northeastern region of the United States. Activities include inspection and screening of excavated soils with a PID for evidence of contamination, classification of encountered soil and other materials, management of stockpiled materials, and air monitoring for particulate matter/nuisance dust and

ambient Volatile Organic Compound (VOC) concentrations as per specifications of an approved Community Air Monitoring Plan (CAMP). Additional duties include the coordination of subcontractors, acceptance of submittals related to materials, and liaise with regulatory officials when necessary.

Mr. Hazard is also responsible for the daily preparation of field notes and summary reports, sample collection logs, review/tabulation of laboratory analytical data, and preparation of project deliverables as necessary. This includes overall preparation of technical reports for review by senior project managers.

Project Experience

Columbia University – The Forum, Manhattan, New York. The approximately 18,000-square foot site formerly consisted of a gas station and multiple warehouse structures. As part of Columbia University's Manhattanville development of multiple properties in West Harlem the property was to be made into a student center/conference space. The site was listed in the NYSDEC Spill database, registered as a E-Designated property, and enrolled in the NYCOER Voluntary Clean-up Program to address and clean up historic fill as part of redevelopment. Mr. Hazard was involved in all aspects of the project from initial Phase I ESA inspection of the property, Phase II Site Investigation of soil, groundwater, and air, soil disposal waste characterization soil sampling, performance of air monitoring during excavation operations, and soils management of excavated materials. Mr. Hazard also coordinated with on-site contractors to deal with additional unscheduled events such as the discovery of unknown USTs or air quality monitoring exceedances and address issues expeditiously. Mr. Hazard worked directly with New York City licensed professional engineers to prepare and submit site closure reports to the appropriate regulatory agencies to achieve a final certificate of occupancy for the client.

SEPTA Regional Rail Expansion Project, Media, Pennsylvania. In an effort to update the aging regional rail system in southeastern Pennsylvania, SEPTA began work on reopening of a multi-mile closed section of the railroad between the towns of Elwyn and Media. As part of redevelopment, old tracks were removed and replaced, and a new station was planned for construction in the town of Wawa. With a rush deadline, Mr. Hazard was tasked as the direct site contact to assist the SEPTA project engineers and construction contractors by collection of waste characterization of soil samples in various locations that were proposed for excavation. Mr. Hazard collected samples in coordination with on-site operators and submitted results to a certified laboratory with analysis holding times. Prior to sampling, Mr. Hazard prepared a Site Management Plan and Soil/Materials Management Sampling Plan that was reviewed and approved by SEPTA and PADEP. Following completion of sampling, Mr. Hazard prepared a Soil Characterization Report documenting the results of sampling to be shared with prospective disposal facilities.

Shark River Hills, Neptune, New Jersey. Mr. Hazard coordinated with an LSRP to delineate and oversee excavation of PCB-impacted soil from an empty property proposed for the NJDEP Green Acres program in Monmouth County, New Jersey. Mr. Hazard utilized GPS to accurately collect confirmatory soil samples from the base of the excavated area to ascertain the effectiveness of the remedy. Additionally, Mr. Hazard coordinated with the Freehold Soil Conservation District to enforce a soil erosion/sediment plan during site operations to prevent accidental impacts of excavation operations to neighboring properties.

Haddon Commons, Haddonfield, New Jersey. Mr. Hazard coordinated with an LSRP to investigate and remediate a tenant space in the shopping center that formerly operated as a dry cleaners. The ground and had impacted soil beneath the building with chlorinated VOCs. Mr. Hazard provided oversight of contractors that excavated impacted soil from the interior of the tenant space without needing the interrupt service to

adjacent tenant spaces in the shopping center. Due to the configuration of the building access and potential for VOCs to affect air quality, Mr. Hazard also had to maintain a ventilation system and provide air quality readings during site work. Mr. Hazard collected confirmatory soil samples from the base and sidewalls of the excavated area, collected groundwater samples from temporary well points, and installed/collected near-slab and sub-slab soil vapor samples from locations in and around the tenant space to ascertain the effectiveness of remedial activities. During excavation, Mr. Hazard oversaw the stockpiling and disposal of material under all local, state, and federal guidelines.

Tillary Street Apartments, Brooklyn, New York. A five-story storage facility in the downtown section of Brooklyn is being developed into a multi-story apartment building containing affordable housing. The site is enrolled in the NYCOER Voluntary Cleanup Program. Mr. Hazard managed and provided sampling services during initial phases of this project including the completion of Phase I and II ESAs with the oversight of the NYCOER.

Contact

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DONALD C. ANNÉ
SENIOR CHEMIST

EDUCATION: M.S., Chemical Oceanography, Florida Institute of Technology, 1981
B.A., Earth Sciences, Millersville University of Pennsylvania, 1975

SPECIAL TRAINING: Certified 40-Hour OSHA Health and Safety
Certified 8-Hour OSHA Supervisory Course
Ground Water Geochemistry (NWWA)
Ground Water Pollution and Hydrology (Princeton Associates)
Quality Assurance Programs for Environmental Monitoring Data (Stat-A-Matrix)

PROFESSIONAL AFFILIATIONS: American Chemical Society (AFS), 1979-Present

EXPERIENCE SUMMARY:

Mr. Anné has more than 30 years of environmental chemistry experience specializing in data validation, environmental sampling, analytical methodologies, petroleum fingerprinting, laboratory audits, field sampling audits, and preparing Quality Assurance Project Plans and Quality Assurance Manuals. Mr. Anné's experience includes analytical laboratory work with gas chromatography, atomic absorption, infrared spectrometry and wet chemistry methods.

PROJECT EXPERIENCE:

Quality Assurance/Quality Control of Chemical Data

Mr. Anné has more than 30 years experience as a data validator and quality assurance officer. Mr. Anné has validated data for most EPA Regions and under several independent state programs, including the NYSDEC. He has performed laboratory and field audits as well as written Quality Assurance Project Plans. Mr. Anné has written, reviewed, and initiated laboratory Quality Assurance Manuals for laboratories to maintain their regulatory compliance. Typical project experience includes:

- Senior Chemist responsible for data validation. Reviewed chemical data for several projects under the New Jersey ISRA regulations. The clients included industry and utilities.

- Supervising Environmental Scientist responsible for data validation. Reviewed chemical laboratory data for adherence to QA/QC protocols for several key projects, including National Priorities List sites and RCRA Corrective Actions located in EPA Regions I, II, III, IV, V, and IX. Validated analytical data, outlined problems and actions to be taken, and qualified all affected data. Consulted with project managers on data usability, and recommended corrective actions to support project goals. Responded to comments made by regulators regarding data quality.

- Supervising Environmental Scientist recognized by the New York State Department of Environmental Conservation (NYSDEC) to perform third party data validation. Attended NYSDEC workshop on data validation as part of the requirements set forth by NYSDEC. Performed data validation in support of NYSDEC STARS and ASP programs as well as data in support of the NYSDEC Part 360 Regulations for landfills. Validated data for an Albany area municipal landfill.

- Supervising Environmental Scientist responsible for developing and preparing Quality Assurance Project Plans (QAPPs) for several state and federal Superfund sites and federal RCRA corrective action sites. Negotiated with regulators for the acceptance of the QAPPs. The sites were located throughout the eastern United States.

- Environmental Chemist responsible for developing a laboratory QA/QC program which fulfilled requirements of the EPA and agencies from the States of Texas and Louisiana. Implemented and managed the program throughout DOE's SPR Environmental laboratories. Received verbal commendations from EPA and the Texas Water commission on the QA/QC Program.

Environmental Chemistry

Mr. Anné is experienced in sampling soil, water, air, and wastes in accordance with federal and state guidelines. He has performed field sampling audits and prepared sampling plans for numerous projects in accordance with applicable programmatic requirements. Mr. Anné is familiar with the geochemical aspects of fate and transport of contaminants. Mr. Anné's typical project experience includes:

- Data manager for the Pennwalt Corporation's RCRA Corrective Action RFI Phase I program. The project included quantifying and characterizing soil contamination and hydrogeologic flow systems of 12 SWMUs at a fluorochemicals plant in Thorofare, New Jersey. Validated and prepared QA/QC reports for data generated during the project. Qualified all data in preparation of the final report. Work was performed under the direction of NJDEP.

- Project Chemist in charge of field sampling activities, including coordinating and scheduling all subcontracted laboratory work for more than 25 sites in Connecticut. Trained field teams in sampling techniques for soil, groundwater, and surface water; chain of custody requirements; sampling QA/QC protocols; and analytical requirements. Work was performed under the scrutiny of ConnDEP.

- Field Team Leader for a major hazardous waste drum excavation project. Supervised all field activities including site safety; excavation; removal, sampling, and over packing of drums; staging and sampling of contaminated soil; and preparation of samples. Coordinated excavation and laboratory subcontractors. Work was performed under the scrutiny of ConnDEP.

- Created an environmental monitoring program for the Bryan Mound site of DOE's Strategic Petroleum Reserve for testing ground water and surface water. Developed sampling protocols, frequency of sampling, and lists of target analytes. This program was designed to provide baseline data for pre-spill conditions in the event of a release. The site was under scrutiny by EPA Region V and the Texas Water commission.

- Project Chemist responsible for developing analytical QA/QC program that included sampling and chemical analyses of surface water, groundwater, soil, and sediment matrices as part of a Remedial Investigation/Feasibility Study (RI/FS). The RI/FS involved more than 25 sites throughout the State of Connecticut. Work was under the guidance of ConnDEP.

Analytical Chemistry

Mr. Anné has experience working in both fixed-base and mobile laboratories. His experience includes the use of gas chromatography, atomic absorption spectrometers, infrared spectrometers, and numerous wet chemistry and preparation equipment methods. He has served in the laboratory as an analyst, laboratory advisor, and QA officer. He has interfaced with regulators in the area of analytical chemistry and has experience in petroleum fingerprinting techniques and methods. Typical projects include:

- Performed bench scale experiments for St. Lawrence Zinc in order to obtain the optimum level of Phlotec necessary to treat discharged water to resolve an N.O.V. for the SPDES outfall. The optimum level of Phlotec would precipitate enough dissolved zinc for the water to meet the discharge requirement. Also performed routine analyses of samples after implementing the treatment, to insure that the proper concentration was being used.

- Environmental Chemist in charge of project to design updates for the DOE's laboratories at its SPR facilities. Evaluated IR and FT-IR instrumentation and personal computers to link with existing and future instrumentation. Wrote procedures for the acceptance of an alternative oil & grease method for NPDES permit monitoring by EPA Region V. Coordinated all site activities necessary for implementing upgrades.

- Environmental Chemist in charge of replacing obsolete total organic carbon (TOC) analyzers for the SPR laboratories. Evaluated state-of-the-art TOC analyzers and recommended replacement TOC analyzer. Negotiated with supplier and wrote technical specification for the bid process required by DOE. Supervised installation and set-up of all new TOC analyzers.

- Analytical Chemist for Berkley Products Company responsible for product development. Analyzed competitor's products and formulated new coatings with equal or better quality. Responsible for solvent operations which included managing the waste solvent recovery operations, solvent formulation, and manufacturing QA/QC. Worked with sales and manufacturing staff to address and resolve client complaints. Received two cash bonuses for suggestions on the manufacture of products which saved the company money.

- Analytical Chemist for the mobile laboratory responsible for sample preparation in support of several projects for a range of clients located in three EPA regions and in conjunction with several state agencies. Extracted, concentrated, and prepared water and soil samples for analyses by GC/FIND, GC/ECD, GC/PID, and GC/MS. Samples were prepared for PCB, pesticide, polynuclear aromatic hydrocarbon, and petroleum hydrocarbon analyses.

EMPLOYMENT:

2005 - present, Alpha Geoscience
1998 - 2005, Alpha Environmental Consultants, Inc.
1990 - 1998, McLaren/Hart
1986 - 1990, Fred C. Hart Associates
1985 - 1986, Boeing Petroleum Services
1982 - 1985, Petroleum Operations and Support Services
1981 - 1982, Dravo Utility Constructors
1979 - 1981, Florida Institute of Technology
1975 - 1979, Berkley Products Company

APPENDIX M: REQUEST TO IMPORT/REUSE FILL OR SOIL

PSG

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Choose an item

Have Ecological Resources been identified? Choose an item

Is this soil originating from the site? Choose an item

How many cubic yards of soil will be imported/reused? Choose an item

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? Choose an item

Does it contain less than 10%, by weight, material that passes a size 100 sieve? Choose an item

Is this virgin material from a permitted mine or quarry? Choose an item

Is this material recycled concrete or brick from a DEC registered processing facility? Choose an item

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Location where fill was obtained:

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

The information provided on this form is accurate and complete.

_____ _____

Signature Date

_____

Print Name

_____

Firm

Revised April 2023