Site Management Periodic Review Report and

IC/EC Certification Submittal

Erie County Shoreline Trail-NYSDEC Site No. C915197L

Location:

Erie County Shoreline Trail

2303 Hamburg Turnpike

Lackawanna, New York 14218

NYSDEC Site No. C915197L

Reporting Period: July 18, 2021 to June 8, 2023

Prepared by:

Erie County Department of Environment and Planning

95 Franklin Street, Room 1053

Buffalo, New York 14202

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1.0 EXECUTIVE SUMMARY

This Periodic Review Report (PRR) is a required element of the approved Site Management Plan (SMP) for the Erie County Shoreline Trail Bethlehem Steel Phase I (Shoreline Trail). This New York State Brownfield Cleanup Program (BCP) site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index No. C915197L-01-18), which was executed on March 9, 2018 with amendments dated on February 14, 2019 and April 2, 2020. The Reporting Period for this report is July 18, 2021 to June 8, 2023.

During this reporting period, sections of the site cap were disturbed during minor excavation associated with development activities for the adjacent site (Dona 8). A five-foot-wide trench was cut across the Greenway Trail to facilitate the stormwater system connections. A smaller breach of the cap occurred near the Greenway Trail head during the initial phase of the stormwater system installation on the adjacent site. An additional minor breach of the cap occurred at the Right of Way between the Greenway Trail at the intersection of Odell and Route 5 during NYS DOT installation of a traffic signal pole. NYSDEC was notified (Appendix 4) of the excavations that were conducted in accordance with the SMP that is shared by both properties. Additional details on the excavations are found in section 4.1.2 of this report. The Corrective Measures involved site cap repairs that were completed in April 2023.

1.1 Site Summary

The Site is identified as the Erie County Shoreline Trail Bethlehem Steel Phase I NYSDEC BCP No. C915197L and consists of approximately 5,140 feet of the 10-foot wide asphalt paved Erie County Shoreline Trail Bethlehem Steel Phase I located in Lackawanna, New York (hereafter referred to as the “Site”). The Site is approximately seven acres of land divested and formed from the easterly fifty-foot (50’) widths of BCP Sites C915198H, C915198K, C915197B, C915197D, C915197F, C915197H and C915197K. The Site is a long 50-foot wide parcel along the west side of NYS Route 5 and Hamburg Turnpike from Dona Street north to the Gateway Trade Center. The Site is bounded by the Gateway Trade Center property to the north, NYSDEC BCP Site C915198F to the south, NYS Route 5 and Hamburg turnpike to the east, and NYSDEC BCP Sites C915198H, C915198K, C915197B, C915197D, C915197F, C915197H, and C915197K to the west.

Historically, the Site was a portion of a larger property occupied by an integrated steel mill operated

by the Bethlehem Steel Corporation (BSC). The site was part of a large industrial complex that contained numerous buildings and facilities, none of which currently remain on the site. The BSC property was the subject of assessments and investigations under the Resource Conservation and Recovery Act (RCRA) and the area containing the sites received a "No Further Assessment" designation from the U.S. Environmental Protection Agency (USEPA) in the early 1990s and was excluded from the RCRA Order by USEPA in 2001. In 2005, Tecumseh Redevelopment Inc. (Tecumseh) entered an approximate 102-acre portion of the BSC property containing the Sites and referred to as the Phase I Business Park in the BCP. In 2007, Tecumseh Redevelopment Inc. (Tecumseh) entered an approximate 141-acre portion of the BSC property containing the Site and referred to as the Phase II Business Park in the BCP. The Site was divested from these BCP Sites.

The Remedial Investigation (RI) conducted on the Phase I Business Park property between 2006 and 2008 and on the Phase II Business Park property between 2010 and 2013 revealed that contamination associated with historical steel mill operations had impacted the soil/fill on the property, necessitating remedial action. The RIs did not identify groundwater impacts proximate the Site. Several phases of remedial actions were undertaken for Business Park Phase I and Phase II in accordance with NYSDEC-approved Interim Remedial Measures (IRM) Work Plans. Following completion of the remedial work, some contamination was left in the soil/fill of the Sites, which is hereafter referred to as the "remaining contamination". The remaining contamination was generally characterized by widespread exceedances of the 6 New York Codes, Rules and Regulation (NYCRR) Part 375 Soil Cleanup Objectives (SCOs) for un-restricted use for certain metals and polycyclic aromatic hydrocarbons (PAHs) to the approximate native soil depth of 8 feet below the ground surface. The remedial efforts also included development of SMPs to manage the remaining contamination at the Sites in perpetuity or until extinguishment of the Environmental Easements that were placed on the Sites in accordance with Environmental Conservation Law (ECL) Article 71, Title 36.

The NYSDEC-approved Remedial Action Work Plan (RAWP) for the Erie County Shoreline Trail Bethlehem Steel Phase I BCP Site No. C915197L dated February 2018 prescribed the remedy for

the Site which included the placement of a cover system comprised of 12 inches of clean soil with a demarcation layer in all areas that are not covered by the asphalt trail or covered by concrete. In 2018, the pedestrian/bicycle trail along with the remainder of the cover system was constructed at the Site and a BCP Certificate of Completion (COC) was issued in 2020, signifying satisfactory completion of the remedial program and acceptance of the Final Engineering Report (FER) for the Site.

1.2 Effectiveness of Remedial Program

Based on a recent inspection of the Site, the engineering and institutional controls are in place, are performing properly, and remain effective and protective of public health and the environment.

1.3 Non-Compliance

No areas of non-compliance regarding the major elements of the SMP were identified during the preparation of this PRR.

1.4 Recommendations

Overall, the remedial program is viewed to be effective in achieving the remedial objectives for the Sites. No changes to the SMP or the frequency of PRR submissions are recommended at this time.

2.0 SITE OVERVIEW

2.1 Site Description

The Site includes an approximately seven-acre parcel consisting of a 10-foot wide 5,140-foot long asphalt pedestrian/bicycle trail along the west side of NYS Route 5 and Hamburg Turnpike within the City of Lackawanna. The Site is 50 feet in width and extends from Dona Street north beyond Ridge Road to the Gateway Trade Center property. The Site is bounded by the Gateway property to the north, NYSDEC BCP Site C915198F to the south, NYS Route 5 and Hamburg turnpike to the east, and NYSDEC BCP Sites C915198H, C915198K, C915197B, C915197D, C915197F, C915197H, and C915197K to the west. The Site was divested and formed from the easterly fifty-foot (50') widths of BCP Sites C915198H, C915198K, C915197B, C915197D, C915197F, C915197H, and C915197K. Lake Erie is situated approximately 5,100 feet to the west of the Sites, while Smoke Creek is located approximately 1,200 feet south of the Site. Figure 1 shows the approximate

location of the Site and Figure 2 depicts the approximate extents of the Site.

Soil/fill remaining on the Site located beneath the cover system was characterized as generally impacted by the historical industrial usage of the BSC property. These impacts were characterized as widespread exceedances of the 6 NYCRR Part 375 SCOs for un-restricted use for certain metals and PAHs to the approximate native soil depth of 8 feet below the ground surface. The impacted soil/fill constitutes the remaining contamination on the Site. No groundwater contamination necessitating remediation was identified on the Site.

2.2 Summary of Remedial Actions

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved Remedial Action Work Plan (RAWP) for the Erie County Shoreline Trail Bethlehem Steel Phase I BCP Site No. C915197L dated February 2018. Remediation for the Site was performed as a single project, and no interim remedial measures, operable units or separate construction contracts were performed. The final remedy implemented at the Site in 2018 involved the installation of a cover system in accordance with the NYSDEC-approved RAWP. The cover system installed at the Site is comprised of the following components:

- A demarcation layer placed atop the remaining soil/fill followed by a minimum of a 12-inch soil cover, obtained from a NYSDEC approved stockpile, in areas of the Site not covered by the 10-foot wide asphalt trail to prevent human exposure to remaining contaminated soil/fill.
- A 10-foot wide asphalt trail consisting of four inches of asphalt pavement and eight inches of gravel subbase.
- Concrete cover at the approach ramps for Ridge Road and Dona Street, bench pads, and the areas of the iron button.

Contaminated soil/fill was encountered during excavation activities associated with the installation of the underdrain system in one portion of the Site. The excavation extended approximately two feet below ground surface and resulted in the transported and disposal of 137.23 tons of non-hazardous soil/fill to the Waste management of NY at Chafee Landfill, a permitted Subtitle D landfill.

On-site soil/fill was used as subgrade backfill beneath the soil cover. Excess existing soil excavated during the installation of the underdrain system as well as soil generated from created grading operations were placed west of the Site to fill in low areas on BCP Parcel Nos. C915157D, C915157F and C915158K.

In addition to the cover system, a Site-Specific Site Management Plan (SMP) was prepared and updated in 2019 to manage remaining contamination as required by the Environmental Easements placed on NYSDEC BCP Site Nos. C915157 and C915198. The Site Specific SMP is included as Appendix E-12 in the January 2014 SMP for the Tecumseh Phase I Business Park for NYSDEC Site Nos. C915197 through C915197K. The SMP specifies the procedures required to manage the remaining contamination on the Site post remediation, including (1) implementation and management of all engineering and institutional controls; (2) media monitoring, if applicable; (3) operation and maintenance of treatment, collection, containment or recover systems, if applicable; (4) performance of periodic inspections, certification of results and submittal of PRRs; and (5) defining criteria for termination of any remaining treatment system operations.

Two environmental easements in place for the Site encompass NYSDEC BCP Site Nos. C915157 and C915198, executed by the NYSDEC and recorded with the Erie County Clerk in 2014. The environmental easements were placed on the properties to (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to commercial and industrial uses only. An additional easement was put in place in June 2022 that granted conditional access to a portion of the Greenway Trail for the installation/maintenance of a storm sewer pipe connection for the Dona 8 project. Copies of the easements are provided in Appendix 1.

3.0 PERFORMANCE, EFFECTIVENESS & PROTECTIVENESS OF THE REMEDY

All remedial actions prescribed in the RAWP for the Site were completed and the remedial goals were accomplished through the installation of the Site-wide cover systems to prevent exposure to remaining contamination in the subsurface.

As indicated below in Section 4.1.2, the cover systems were inspected on August 12, 2022, and again on April 25, 2023. Based on the inspections the remaining cover systems are intact, functioning effectively throughout the Site and are protective of public health and the environment.

4.0 INSTITUTIONAL/ENGINEERING CONTROL (IC/EC) PLAN COMPLIANCE REPORT

4.1 IC/EC Requirements and Compliance

4.1.1 IC Requirements-Site Restrictions

In accordance with the SMP, a series of Institutional Controls (ICs) have been established for the Site. Adherence to these ICs is required by the Environmental Easements. The Environmental Easements are described within the Final Engineering Report, included within Appendix 4. These ICs are:

- Compliance with the environmental easement and the SMP by the Owner and the Owner's successors and assigns;
- All Engineering Controls (ECs) must be installed, operated and maintained as specified in the SMP;
- All ECs on the Site must be inspected at a frequency and in a manner defined in the SMP;
- Environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to site management of the Site must be reported at the frequency and in a manner defined in the SMP;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- Operation, maintenance, monitoring, inspection, and reporting of mechanical or physical components of the remedy shall be performed as defined in the SMP; and
- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the environmental easements.

Institutional Controls identified in the environmental easements may not be discontinued without an amendment to or extinguishment of the environmental easement.

The Site has a series of ICs in the form of restrictions. Site restrictions that apply are as follows:

- The Site may only be used for recreational trail uses only;
- The use of groundwater underlying the Site is restricted as a source of potable or process water, without necessary water quality treatment, as determined by the New York State Department of Health or Erie County Health Department;

- Compliance with the SMP is required; and
- The owner of the Site is required to provide an IC/EC certification, prepared and submitted by a professional engineer or environmental professional acceptable to the NYSEC annually or for a period to be approved by the NYSDEC, which will certify that the ICs and ECs put in place are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP.

Erie County has concluded that the ICs are in force and are being adhered to with respect to the condition and use of the Sites and activities conducted thereon.

4.1.2 Engineering Control-Soil Cover System

Exposure to the remaining contamination in soil/fill at the Site is prevented by the cover systems that were previously placed over the Site. The cover system is comprised of a minimum of 12 inches of NYSDEC approved soil overlaying a demarcation layer (orange plastic mesh material) in areas of the Site not covered by the asphalt pedestrian/bicycle trail. The pedestrian/bicycle trail consists of eight inches of subbase and four inches of asphalt pavement. The Excavation Work Plan, which appears in Appendix B of the SMP, outlines the procedures that are required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. The cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity.

On Wednesday February 16, during the installation of a stormwater connection at the 8 Dona St, Uniland parcel adjacent to the Erie County Shoreline Bike Trail, it was observed that the excavation area extended into a portion of the adjacent Greenway Trail property, breaching a small section, approximately 10 sq. ft., of the cap on the EC Shoreline Trail BCP site. EC DEP notified NYSDEC of the minor breach and explained that it would be repaired as per the SMP once the stormwater installation project being conducted at the adjacent Dona 8 site was completed. In the meantime, the excavated area was fenced off as a safety precaution. By October 31, the repair was completed as per the SMP. Air monitors were positioned near the excavation site with no elevated levels reported.

Uniland, the developers of the adjacent Dona8 parcel notified NYSDEC on July 14 of a second scheduled excavation to make storm water connections that required a 5 foot wide excavation across the Shoreline Trail site. The work was conducted as per the SMP requirements on July 27-28. The top 12” cover system was placed to the side and all subgrade materials underneath the existing demarcation fabric

were placed on poly sheeting then used as backfill after the pipe was installed. Once all the subgrade was backfilled, new demarcation fabric was installed in the trench and then the top soil cover was backfilled on top of that to surrounding grade. Air monitors were positioned near the excavation site with no elevated levels reported. CAMP data for these two repairs are included in appendix 3.

On November 4, 2022, an additional minor breach of the cap occurred in the Right of Way between the Greenway Trail at the intersection of Odell and Route 5 during NYS DOT installation of a traffic signal pole. The minor excavation area was secured and covered until cap repairs were completed in April 2023. No CAMP data is available for this event.

Copies of the site inspection report and IC Certification for the cap repairs are included as appendices. Correspondence including NYSDEC notification and description of the work and cap repair details, cover soil, placement of excavated materials, are included in Appendix 3. Photographs of initial Site disturbance and the completed repair work are included in Appendix 2.

Soil from the February excavation was stockpiled nearby and used to backfill the same excavation to approximately 12”-15” below surrounding grade with an orange demarcation barrier installed prior to replacement of 12” of BCP approved topsoil before reseeding. Some of the soil from the November excavation was sidecast and incorporated into the existing slope. The remaining soil was stockpiled with soil from other nearby NYSDOT signal projects in the vicinity, which was tested and disposed of at an approved landfill. This repair was also capped with 12” of approved top soil and area reseeded. Additional details including analytical results and waste manifests are included in Appendix 3.

On April 25, 2023, Erie County personnel conducted the annual Site inspections, which included traversing the Sites on foot to observe the current conditions. The Site Inspection Form is included herein as Appendix 2. Appendix 3 includes photographs taking during the Site inspection. The Site consists of an asphalt pedestrian/bicycle trail aligned with vegetated soil cover occurring at the ground surface along the length of the Site. The minor excavations described in this report, appear to be repaired and were observed to be intact and functioning as intended.

4.2 IC/EC Certification

Appendix 5 includes the NYSDEC Site Management Periodic Review Report Notice-Institutional and Engineering Controls Certification Forms.

5.0 MONITORING PLAN COMPLIANCE REPORT

5.1 Requirements

The Monitoring Plan is included in Section 3.0 of the SMP and describes the measures for evaluating the performance and effectiveness of: the remedy to reduce or mitigate contamination at the Site, the soil cover systems, and all affected Site media.

The Monitoring Plan describes the methods to be used for:

- Monitoring the cover system;
- Assessing achievement of the remedial performance criteria;
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment;
- Preparing the necessary reports for the various monitoring activities.

To adequately address these issues, the Monitoring Plan provides information on:

- Annual inspection and periodic certification.

5.2 Comparisons with Remedial Objectives

Cover system monitoring was performed in accordance with the SMP, and included the annual visual inspection of the cover system components. As described in Section 4.1.2, the cover system breaches described in this report have been repaired. The cover system on the remainder of the site was observed to be intact and functioning as intended, and is continuing to satisfy the remedial objectives for the Site.

5.3 Monitoring Deficiencies

No monitoring deficiencies were noted or experienced during the inspection of the cover system or completion of the PRR.

5.4 Monitoring Conclusions and Recommendations

The procedures utilized to evaluate the performance and effectiveness of the cover system were conducted in accordance with the SMP and verified that the cover system is functioning as intended. No changes to the monitoring plan are recommended.

6.0 OPERATION AND MAINTENANCE PLAN

The remedy for the Site does not rely on mechanical systems to protect public health and the environment. Therefore, no operation and maintenance requirements apply to the Site.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Annual inspection of the Site was performed on April 25, 2023 by Erie County personnel as prescribed in the SMP. As a result of this inspection, it was determined that repairs to small portions of the cap impacted by the sewer line connectors and traffic signal installation excavation projects described in this report have been completed and conducted in compliance with the SMP. The cover system on the remainder of the site was observed to be intact and functioning as intended, and is continuing to satisfy the remedial objectives for the Site.

8.0 REFERENCES

DER-10/Technical Guidance for Site Investigation and Remediation, NYSDEC, May 3, 2010

Site Management Plan for BCP Tecumseh Phase I Business Park, NYSDEC Site No. C915197 through C915197K, Turnkey Environmental Restoration, LLC, 2019

Decision Document for the Phase I Business Park Site No. C915197, January 2012

Appendix E - Site Management Plan for Tecumseh Phase I Business Park, NYSDEC Site No. C915197 through C915197K, Turnkey Environmental Restoration, LLC, 2019

Remedial Action Work Plan – Erie County Shoreline Trail Bethlehem Steel Phase I BCP Site No. C915197L, February 2018

Figure 1-Site Location Map of Rt 5 area in Lackawanna near the former Bethlehem Steel Site with excavation areas identified.

Appendix 1

Site Inspection Form

Annual Site Inspection Form

Bethlehem Steel Shoreline Trail
2303 Hamburg Turnpike, Lackawanna, New York
NYSDEC Site No. **C915197L**

Date: April 25, 2023

Inspector: John Hood

Weather: Sunny, 50 deg F

1. Compliance with all ICs, including site usage:

SITE USAGE: Use of the Site is limited to Commercial & Industrial Uses. Indicate if any other type of use is occurring at the Site.

Site is used as a bicycle and pedestrian trail

GROUNDWATER USAGE: Use of groundwater underlying the Site is prohibited without treatment. Indicate whether groundwater use is occurring at the Site along with any treatment measures being applied.

Groundwater is not used.

COMPLIANCE WITH SMP: List Site activities and indicate compliance or non-compliance with SMP.

Site cap repairs for two minor excavations near the Dona 8 development were conducted as per the SMP and completed in October 2022 and a third minor excavation in the NYSDOT Rt 5 ROW was repaired as per the SMP in April 2023.

2. **An evaluation of the condition and continued effectiveness of the ECs:**
SITE COVER CONDITION: Good, Fair, or Poor

Based on the inspections, the cover systems are intact, functioning effectively throughout the Site and are protective of public health and the environment.

SITE COVER EFFECTIVNESS: As Intended or Needs Repair

Based on the inspections, the cover systems are intact, functioning effectively throughout the Site and are protective of public health and the environment.

3. **General site conditions at the time of the inspection:**

Acceptable

Appendix 2

Site Photographs

Photo 1- Site of excavation near Shoreline Trailhead at Rt 5 and Dona St.

Photo 2-Fenced off section of excavation near Rt 5 and Dona St.

Photo 3-Excavation across Greenway trail for stormwater connector

Photo 4-Excavation across Greenway trail for stormwater connector

Photo 5- Greenway Trail, post excavation repair.

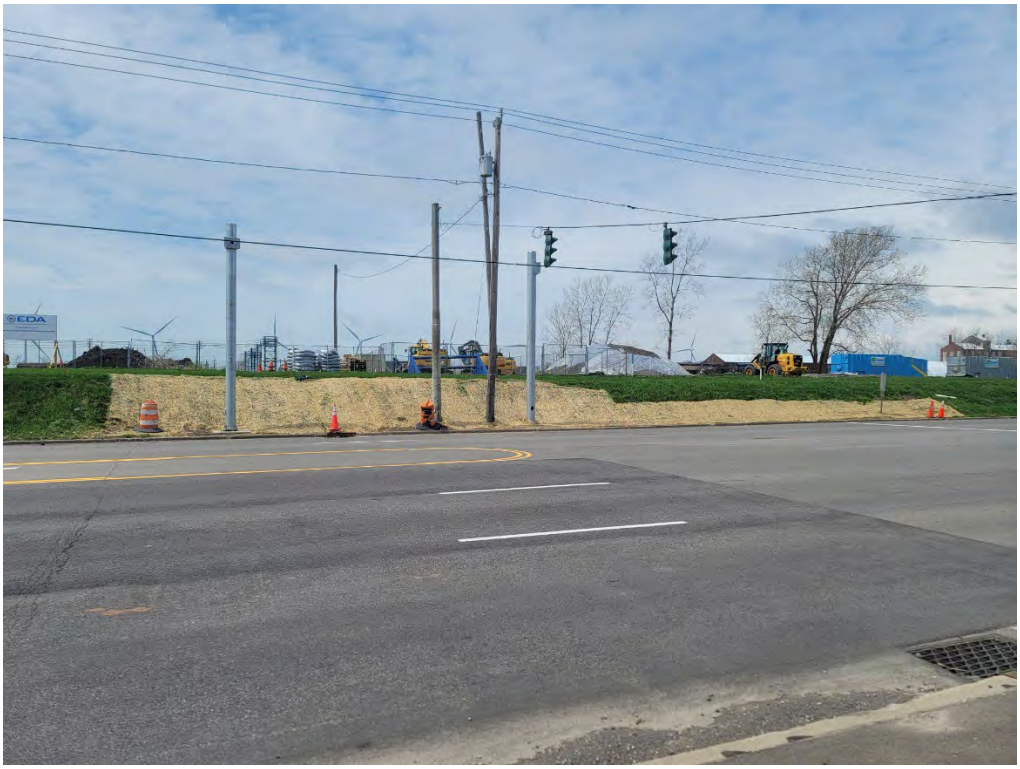


Photo 6- NYSDOT Traffic signal repair at Odell and Rt 5

APPENDIX 3

November 29, 2022

Mr. John Hood
Chief Environmental Compliance Specialist
Erie County, Environment & Planning
95 Franklin Street
Buffalo NY 14202

Re: Site II-8 Tecumseh Phase II Business Park
8 Dona Street
Lackawanna, Erie County
BCP Site No.: C915198H

RE: Site Cap Restoration Summary

Dear Mr. Hood,

On behalf of our client, Uniland Construction Corporation (Uniland), Benchmark Civil/Environmental Engineering & Geology, PLLC (Benchmark) is herein providing a summary of the 12" cap restoration work to the Bethlehem Shoreline Trail property that is adjacent to Uniland's 8 Dona Street property.

February 6, 2022 – To install storm manhole #1 which is located at the property line near the southeastern corner of the site, the site contractor excavated outside of the property line and into Erie County's property. The over excavation into the county's property measured approximately 20' x 10' x 10' deep. All soil excavated from this area was stockpiled to be used as backfill. Once the contractor installed manhole #1, the soil was placed back into the ground, compacted and left approximately 12" – 15" below the surrounding grade. New orange demarcation fabric was installed on top of the subgrade material then BCP approved topsoil was placed down to restore the 12" topsoil cap. On 10/31/22 the contractor installed hydroseed in this area to aid in the germination of vegetative growth.

Please see the attached Appendix A for:

- Site Picture
- Community Air Monitoring Program (CAMP) Data for intrusive work completed on 02.06.22.
- NYSDEC Import Request Approval for the topsoil that was used as cap material.

July 27, 2022 thru July 29, 2022 – per the approved storm water drainage plan, the contractor excavated through the county's property, including removing a small portion of the bike path to connect the onsite drainage system to the main storm system running along the western side of Route 5. The existing 12" of topsoil that was in the excavation area which was approximately 60' long x 10' wide was removed and placed to the side for later use. The subgrade soil that was beneath the topsoil and demarcation fabric was removed down to proper elevation for the storm pipe installation and placed on plastic sheeting along the excavation. After the contractor installed the storm pipe and completed the connection to the storm sewer main pipe, the subgrade soil was placed back into the excavation, compacted and left approximately 12"-15" below surrounding grade. New orange demarcation fabric was installed on top of the subgrade material then the original topsoil that was stripped off was placed back down to restore the 12" topsoil cap. New asphalt was also installed in the area of the bike path that was excavated through. On 10/31/22 the contractor installed hydroseed in this area to aid in the germination of vegetative growth. The extra subgrade soil and original asphalt material from the bike path that was not placed back into the excavation as backfill was later transported offsite and disposed of an approved landfill facility under the same waste profile as the Uniland project.

Please see the attached Appendix B for:

- Site Picture
- Community Air Monitoring Program (CAMP) Data for intrusive work completed on 07.27.22 thru 07.29.2022.
- Waste Manifest which extra subgrade soil and asphalt material was disposed of offsite at an approved landfill facility.

Please contact us with any additional comments or questions.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC

Thomas H. Forbes, PE
President

Eric A. Warren
Project Manager

STATE OF NEW YORK
THOMAS H. FORBES
No. 70950-1
LICENSED PROFESSIONAL ENGINEER

BENCHMARK

APPENDIX A
Work Completed on 02.06.22

SITE PICTURE
CAMP DATA
NYSDEC IMPORT REQUEST APPROVAL

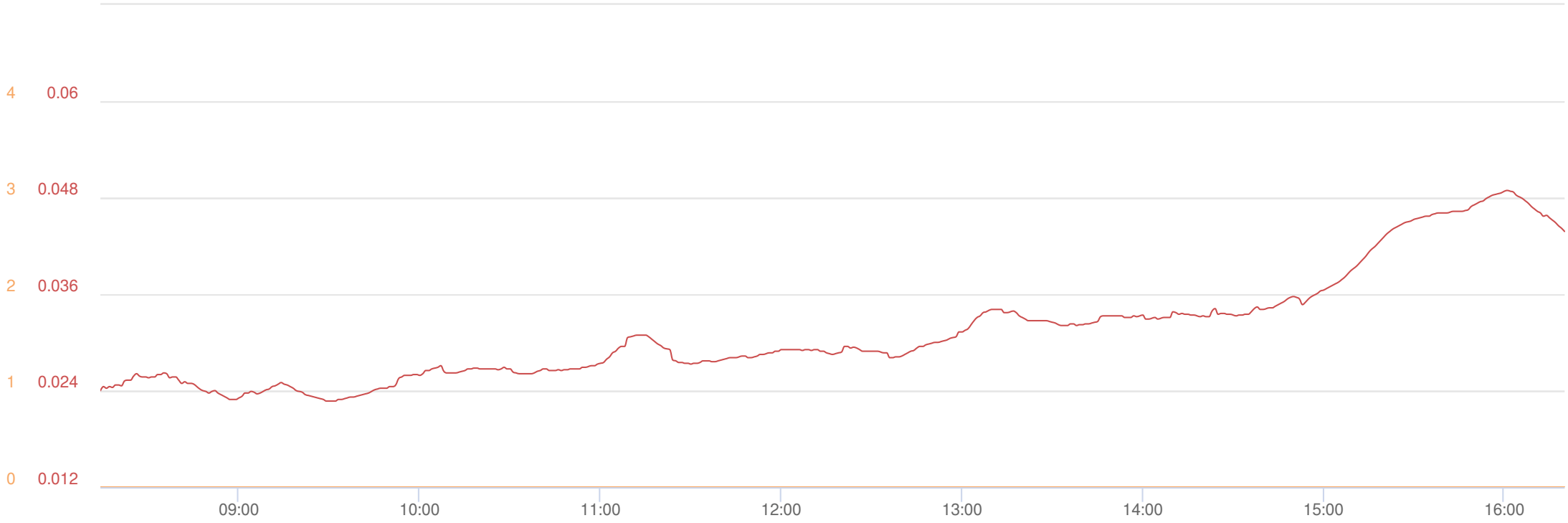
APPENDIX A

SITE PICTURE

APPENDIX A

CAMP DATA

Wed, 16th of Feb 2022, 7:00:00 – 17:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total (AVG 15m) mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0227	**0.0313**	**0.0489**

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	**0**	**0**

Name	CAMP Station #4
S/N	0B052904
Description	CAMP Station #4
Location	2424 Hamburg Turnpike, Buffalo, NY 14218, USA

APPENDIX A

NYSDEC IMPORT REQUEST APPROVAL

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9
270 Michigan Avenue, Buffalo, NY 14203-2915
P: (716) 851-7220 | F: (716) 851-7226
www.dec.ny.gov

March 10, 2022

Eric Warren
TurnKey Environmental Restoration, LLC
2558 Hamburg Turnpike, Suite 300
Buffalo, NY 14218

Soil Import Request
Site II-8 Tecumseh Phase II Business Park
Site No. C915198H
Lackawanna, NY

Dear Eric Warren:

The Department has reviewed the request dated March 8, 2022 to import 3,000 cubic yards of soil from 11668 Broadway, Alden NY. Based on the information provided, the request is hereby approved.

The proposed fill material meets the Commercial soil cleanup objectives (SCOs) (Appendix 5 of DER-10). Therefore, this material may be placed below the demarcation layer or above the demarcation layer as part of final site cover.

Should you have any questions or would like to discuss the matter in further detail, feel free to contact me at andrew.zwack@dec.ny.gov or (716) 851-7220.

Sincerely,

Andrew Zwack
Assistant Engineer

ec: Ben McPherson – NYSDEC
Tom Forbes - Benchmark
Michael Montante – Uniland

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Us

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? >1000

If greater than 1000 cubic yards will be imported, enter volume to be imported: 3000

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? Choose an item

Is this virgin material from a permitted mine or quarry? no

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

In accordance with NYSDEC DER-10, eleven (11) descrete VOC samples and four (4) composite samples (SVOCs, metals, PCBs, pesticides/herbicides, 1,4-dioxane and PFAS) were collected and analyized to asses a stockpile of topsoil.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

All results are below DER-10, Appendix 5 listed values for Residential Use Sites and Emergent Contaminant results are below the Department's guidelines.

Tecumseh Phase II Business Park (Uniland) - Commercial Use Site. BCP # C915198H

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Zoladz Construction, Inc. None

Location where fill was obtained:

11668 Broadway, Alden, NY

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Site is currently being developed as a commerical use property with a single office buidling to be built on it. The site was orginally vacant farmland.
The soil is virgin material being stripped and stockpiled by the contractor.

Provide a list of supporting documentation included with this request:

Please see the attached Table 1 Analytical Summary Chart.
PLease see attached Alpha Analytical Report L2208221.

The information provided on this form is accurate and complete.

Eric A. Warren

Signature

03/08/22

Date

Eric A. Warren

Print Name

Benchmark & TurnKey Companies

Firm

TABLE 1
SUMMARY OF TOPSOIL ANALYTICAL RESULTS
11668 Broadway
Alden, New York

PARAMETER[1]	Unrestricted Use [2]	Residential Use [2]	Restricted Residential Use [2]	Commercial or Industrial Use [2]	Comp #1	Comp #2	Comp #3	Comp #4	Grab #1	Grab #2	Grab #3	Grab #4	Grab #5	Grab #6	Grab #7	Grab #8	Grab #9	Grab #10	Grab #11
					2/16/2022														
Volatile Organic Compounds (VOCs) - mg/Kg [3]																			
Ethylbenzene	1	1	1	1	--	--	--	--	ND	ND	0.0015	0.00018 J	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	10	10	10	10	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	0.00039 J	ND	ND	0.00051 J
Total Xylenes	0.26	1.6	1.6	1.6	--	--	--	--	ND	ND	0.0113	0.00132 J	0.00085 J	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg [3]																			
Anthracene	100	100	100	500	ND	ND	0.057 J	0.130 J	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	20	100	100	500	ND	ND	ND	0.032 J	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	100	100	100	500	ND	ND	ND	0.061 J	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	1	1	1	5.6	0.049 J	0.036 J	0.280	0.460	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	1	1	1	5.6	0.075 J	0.051 J	0.370	0.60	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	0.8	1	3.9	56	ND	ND	0.130	0.220	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	0.040 J	ND	0.190	0.30	--	--	--	--	--	--	--	--	--	--	--
Benzo(ghi)perylene	100	100	100	500	0.033 J	ND	0.150 J	0.220	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	1	1	1	1	0.055 J	ND	0.300	0.470	--	--	--	--	--	--	--	--	--	--	--
Carbazole	--	--	--	--	ND	ND	0.033 J	0.100 J	--	--	--	--	--	--	--	--	--	--	--
Chrysene	1	1	1	1	0.052 J	0.039 J	0.260	0.460	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.56	ND	ND	0.040 J	0.065 J	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	7	59	59	350	ND	ND	ND	0.044 J	--	--	--	--	--	--	--	--	--	--	--
Fluorene	30	100	100	500	ND	ND	ND	0.120 J	--	--	--	--	--	--	--	--	--	--	--
3-Methylpenol/4-Methylphenol	--	--	--	--	ND	ND	ND	0.048 J	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	100	100	100	500	0.110 J	0.078 J	0.630	1.20	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	100	100	100	500	0.061 J	0.042 J	0.220	0.880	--	--	--	--	--	--	--	--	--	--	--
Pyrene	100	100	100	500	0.083 J	0.058 J	0.490	0.810	--	--	--	--	--	--	--	--	--	--	--
Total Metals - mg/Kg																			
Arsenic	13	16	16	16	4.65	4.38	4.0	5.9	--	--	--	--	--	--	--	--	--	--	--
Barium	350	350	400	400	30.2	30	34.8	57.2	--	--	--	--	--	--	--	--	--	--	--
Beryllium	7.2	14	47	47	0.246	0.213 J	0.26	0.301	--	--	--	--	--	--	--	--	--	--	--
Cadmium	2.5	2.5	4.3	7.5	0.491	0.493 J	0.521	0.771	--	--	--	--	--	--	--	--	--	--	--
Chromium, Trivalent	30	36	180	1500	6.2	5.7	7.34	8.24	--	--	--	--	--	--	--	--	--	--	--
Copper	50	270	270	270	8.13	12.6	14.7	24.7	--	--	--	--	--	--	--	--	--	--	--
Lead	63	400	400	450	28.6	40.1	24.8	58.3	--	--	--	--	--	--	--	--	--	--	--
Manganese	1600	2000	2000	2000	95.3	118	209	554	--	--	--	--	--	--	--	--	--	--	--
Mercury	0.18	0.73	0.73	0.73	0.074 J	0.091 J	0.082 J	0.104	--	--	--	--	--	--	--	--	--	--	--
Nickel	30	130	130	130	7.08	7.08	9.79	10.8	--	--	--	--	--	--	--	--	--	--	--
Selenium	3.9	4	4	4	0.437 J	0.315 J	0.234 J	0.206 J	--	--	--	--	--	--	--	--	--	--	--
Silver	2	8.3	8.3	8.3	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--
Zinc	109	2200	2480	2480	43.4	54.3	59.4	77.3	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated biphenyls (PCBs) - mg/Kg																			
Total PCBs	0.1	1	1	1	ND	ND	0.0592	ND	--	--	--	--	--	--	--	--	--	--	--
Pesticides and Herbicides - mg/Kg [3]																			
4,4'-DDE	0.0033	1.8	8.9	62	**0.00795**	**0.0262**	**0.0629**	**0.0678**	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	0.0033	2.6	13.0	92	ND	8.72E-4 JIP	0.00307	**0.0214**	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	0.0033	1.7	7.9	47	**0.00572**	**0.0128**	**0.0124**	**0.0395**	--	--	--	--	--	--	--	--	--	--	--
cis-Chlordane	0.0940	0.91	4.2	24	ND	1.05E-3 J	ND	ND	--	--	--	--	--	--	--	--	--	--	--
Perfluorinated Alkyl Acids- ug/kg [4]																			
Perfluorobutanoic Acid (PFBA)	--	--	--	--	0.067 J	0.064 J	0.127 J	0.085 J	--	--	--	--	--	--	--	--	--	--	--
Perfluorohexanoic Acid (PFHxA)	--	--	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--
Perfluoropentanoic Acid (PFPeA)	--	--	--	--	ND	ND	0.061 J	ND											
Perfluorooctanoic Acid (PFOA)	0.66	6.6	33	500/600	0.169 J	0.161 J	0.203 J	0.203 J	--	--	--	--	--	--	--	--	--	--	--
Perfluorooctanesulfonic Acid (PFOS)	--	--	--	--	0.480	0.492	0.491	0.998	--	--	--	--	--	--	--	--	--	--	--
PFOA/PFOS, Total	--	--	--	--	0.649 J	0.653 J	0.694 J	1.20 J	--	--	--	--	--	--	--	--	--	--	--

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; other compounds were reported as non-detect.
2. Values per NYSDEC DER-10 Appendix 5 Allowable Constituent Levels for Imported Fill or Soil.
3. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs.
4. Values per NYSDEC Part 375 Sampling, Analysis and Assessment of Per-And Polyfluoroalkyl Substances (PFAS) October 2020.

Definitions:

ND = Parameter not detected above laboratory detection limit.
"--" = No value available for the parameter; Parameter not analyzed for.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.

ANALYTICAL REPORT

Lab Number:	L2208221
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Eric Warren
Phone:	(716) 856-0599
Project Name:	1168 BROADWAY TOPSOIL
Project Number:	T0006-022-002
Report Date:	03/04/22

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2208221-01	COMP 1	SOIL	BROADWAY & TWO RED RD	02/16/22 08:50	02/16/22
L2208221-02	COMP 2	SOIL	BROADWAY & TWO RED RD	02/16/22 09:00	02/16/22
L2208221-03	COMP 3	SOIL	BROADWAY & TWO RED RD	02/16/22 09:10	02/16/22
L2208221-04	COMP 4	SOIL	BROADWAY & TWO RED RD	02/16/22 09:20	02/16/22
L2208221-05	GRAB 1	SOIL	BROADWAY & TWO RED RD	02/16/22 07:50	02/16/22
L2208221-06	GRAB 2	SOIL	BROADWAY & TWO RED RD	02/16/22 07:55	02/16/22
L2208221-07	GRAB 3	SOIL	BROADWAY & TWO RED RD	02/16/22 08:00	02/16/22
L2208221-08	GRAB 4	SOIL	BROADWAY & TWO RED RD	02/16/22 08:05	02/16/22
L2208221-09	GRAB 5	SOIL	BROADWAY & TWO RED RD	02/16/22 08:10	02/16/22
L2208221-10	GRAB 6	SOIL	BROADWAY & TWO RED RD	02/16/22 08:15	02/16/22
L2208221-11	GRAB 7	SOIL	BROADWAY & TWO RED RD	02/16/22 08:20	02/16/22
L2208221-12	GRAB 8	SOIL	BROADWAY & TWO RED RD	02/16/22 08:25	02/16/22
L2208221-13	GRAB 9	SOIL	BROADWAY & TWO RED RD	02/16/22 08:30	02/16/22
L2208221-14	GRAB 10	SOIL	BROADWAY & TWO RED RD	02/16/22 08:35	02/16/22
L2208221-15	GRAB 11	SOIL	BROADWAY & TWO RED RD	02/16/22 08:40	02/16/22

Project Name:	1168 BROADWAY TOPSOIL	**Lab Number:**	L2208221
Project Number:	T0006-022-002	**Report Date:**	03/04/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	1168 BROADWAY TOPSOIL	**Lab Number:**	L2208221
Project Number:	T0006-022-002	**Report Date:**	03/04/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The analyses performed were specified by the client.

Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Perfluorinated Alkyl Acids by Isotope Dilution

L2208221-01: The MeOH fraction of the extraction is reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard.
L2208221-01, -03, -04, WG1606408-1, and WG1606408-2: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

PCBs

L2208221-03: The surrogate recoveries are outside the acceptance criteria for decachlorobiphenyl (265%,299%); however, the sample was not re-extracted due to coelution with Aroclor 1268.

Total Metals

The WG1607434-3 MS recovery, performed on L2208221-01, is outside the acceptance criteria for mercury (127%). A post digestion spike was performed and was within acceptance criteria.

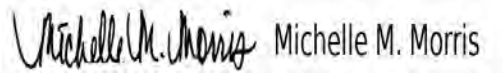
Project Name:	1168 BROADWAY TOPSOIL	**Lab Number:**	L2208221
Project Number:	T0006-022-002	**Report Date:**	03/04/22

Case Narrative (continued)

Hexavalent Chromium

The WG1609028-4 Insoluble MS recovery for chromium, hexavalent (57%), performed on L2208221-02, is outside the acceptance criteria. The Soluble MS recovery for chromium, hexavalent (32%) was also outside criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 104%.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Michelle M. Morris

Title: Technical Director/Representative Date: 03/04/22

ORGANICS

VOLATILES

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-05
Client ID: GRAB 1
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 07:50
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/27/22 14:34
Analyst: AJK
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.9	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.37	1
Tetrachloroethene	ND		ug/kg	0.69	0.27	1
Chlorobenzene	ND		ug/kg	0.69	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.96	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.69	0.23	1
Bromodichloromethane	ND		ug/kg	0.69	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.69	0.22	1
Bromoform	ND		ug/kg	5.5	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.69	0.23	1
Benzene	ND		ug/kg	0.69	0.23	1
Toluene	ND		ug/kg	1.4	0.75	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.5	1.3	1
Bromomethane	ND		ug/kg	2.8	0.80	1
Vinyl chloride	ND		ug/kg	1.4	0.46	1
Chloroethane	ND		ug/kg	2.8	0.62	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1
Trichloroethene	ND		ug/kg	0.69	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-05 Date Collected: 02/16/22 07:50

Client ID: GRAB 1 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.77	1
o-Xylene	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	ND		ug/kg	14	6.6	1
Carbon disulfide	ND		ug/kg	14	6.3	1
2-Butanone	ND		ug/kg	14	3.1	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.8	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.46	1
Methyl Acetate	ND		ug/kg	5.5	1.3	1
Cyclohexane	ND		ug/kg	14	0.75	1
1,4-Dioxane	ND		ug/kg	110	48.	1
Freon-113	ND		ug/kg	5.5	0.96	1
Methyl cyclohexane	ND		ug/kg	5.5	0.83	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	113		70-130

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-06
Client ID: GRAB 2
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 07:55
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/27/22 15:00
Analyst: AJK
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.90	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.22	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.75	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1
Trichloroethene	ND		ug/kg	0.64	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-06 Date Collected: 02/16/22 07:55

Client ID: GRAB 2 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.9	1
2-Butanone	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
Methyl Acetate	ND		ug/kg	5.2	1.2	1
Cyclohexane	ND		ug/kg	13	0.70	1
1,4-Dioxane	ND		ug/kg	100	45.	1
Freon-113	ND		ug/kg	5.2	0.89	1
Methyl cyclohexane	ND		ug/kg	5.2	0.78	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	113		70-130

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-07
Client ID: GRAB 3
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:00
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/27/22 15:25
Analyst: AJK
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.88	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	1.5		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.5	0.74	1
Vinyl chloride	ND		ug/kg	1.3	0.42	1
Chloroethane	ND		ug/kg	2.5	0.57	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1
Trichloroethene	ND		ug/kg	0.64	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-07 Date Collected: 02/16/22 08:00

Client ID: GRAB 3 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.26	1
p/m-Xylene	8.0		ug/kg	2.5	0.71	1
o-Xylene	3.3		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.35	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
Methyl Acetate	ND		ug/kg	5.1	1.2	1
Cyclohexane	ND		ug/kg	13	0.69	1
1,4-Dioxane	ND		ug/kg	100	45.	1
Freon-113	ND		ug/kg	5.1	0.88	1
Methyl cyclohexane	ND		ug/kg	5.1	0.77	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	111		70-130

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-08
Client ID: GRAB 4
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:05
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/27/22 15:50
Analyst: AJK
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.85	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	0.18	J	ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-08 Date Collected: 02/16/22 08:05

Client ID: GRAB 4 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.25	1
p/m-Xylene	0.90	J	ug/kg	2.4	0.69	1
o-Xylene	0.42	J	ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
Methyl Acetate	ND		ug/kg	4.9	1.2	1
Cyclohexane	ND		ug/kg	12	0.67	1
1,4-Dioxane	ND		ug/kg	98	43.	1
Freon-113	ND		ug/kg	4.9	0.85	1
Methyl cyclohexane	ND		ug/kg	4.9	0.74	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	113		70-130

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-09
Client ID: GRAB 5
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:10
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/27/22 16:15
Analyst: AJK
Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.7	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.3	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.17	1
Dibromochloromethane	ND		ug/kg	1.3	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.36	1
Tetrachloroethene	ND		ug/kg	0.67	0.26	1
Chlorobenzene	ND		ug/kg	0.67	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.67	0.22	1
Bromodichloromethane	ND		ug/kg	0.67	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.67	0.21	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.67	0.22	1
Benzene	ND		ug/kg	0.67	0.22	1
Toluene	ND		ug/kg	1.3	0.73	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.4	1.2	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.3	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	ND		ug/kg	0.67	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-09 Date Collected: 02/16/22 08:10

Client ID: GRAB 5 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	0.85	J	ug/kg	2.7	0.75	1
o-Xylene	ND		ug/kg	1.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.24	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.5	1
Carbon disulfide	ND		ug/kg	13	6.1	1
2-Butanone	ND		ug/kg	13	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.38	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.15	1
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
Methyl Acetate	ND		ug/kg	5.4	1.3	1
Cyclohexane	ND		ug/kg	13	0.73	1
1,4-Dioxane	ND		ug/kg	110	47.	1
Freon-113	ND		ug/kg	5.4	0.93	1
Methyl cyclohexane	ND		ug/kg	5.4	0.81	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	114		70-130

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-10
Client ID: GRAB 6
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:15
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/27/22 16:40
Analyst: AJK
Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	ND		ug/kg	0.68	0.27	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.95	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.23	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.22	1
Bromoform	ND		ug/kg	5.5	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.23	1
Benzene	ND		ug/kg	0.68	0.23	1
Toluene	ND		ug/kg	1.4	0.74	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.5	1.3	1
Bromomethane	ND		ug/kg	2.7	0.79	1
Vinyl chloride	ND		ug/kg	1.4	0.46	1
Chloroethane	ND		ug/kg	2.7	0.62	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.19	1
Trichloroethene	ND		ug/kg	0.68	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.20	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-10 Date Collected: 02/16/22 08:15

Client ID: GRAB 6 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	ND		ug/kg	14	6.6	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.7	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.46	1
Methyl Acetate	ND		ug/kg	5.5	1.3	1
Cyclohexane	ND		ug/kg	14	0.74	1
1,4-Dioxane	ND		ug/kg	110	48.	1
Freon-113	ND		ug/kg	5.5	0.95	1
Methyl cyclohexane	ND		ug/kg	5.5	0.82	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	113		70-130

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-11 Date Collected: 02/16/22 08:20

Client ID: GRAB 7 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 02/27/22 17:05

Analyst: AJK

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.3	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.63	0.25	1
Chlorobenzene	ND		ug/kg	0.63	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.88	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.63	0.21	1
Bromodichloromethane	ND		ug/kg	0.63	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.63	0.20	1
Bromoform	ND		ug/kg	5.1	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.63	0.21	1
Benzene	ND		ug/kg	0.63	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.5	0.74	1
Vinyl chloride	ND		ug/kg	1.3	0.42	1
Chloroethane	ND		ug/kg	2.5	0.57	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1
Trichloroethene	ND		ug/kg	0.63	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-11 Date Collected: 02/16/22 08:20

Client ID: GRAB 7 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.35	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
Methyl Acetate	ND		ug/kg	5.1	1.2	1
Cyclohexane	ND		ug/kg	13	0.69	1
1,4-Dioxane	ND		ug/kg	100	44.	1
Freon-113	ND		ug/kg	5.1	0.88	1
Methyl cyclohexane	ND		ug/kg	5.1	0.76	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	112		70-130

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-12
Client ID: GRAB 8
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:25
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/01/22 16:04
Analyst: NLK
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.3	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.63	0.25	1
Chlorobenzene	ND		ug/kg	0.63	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.88	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.63	0.21	1
Bromodichloromethane	ND		ug/kg	0.63	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.63	0.20	1
Bromoform	ND		ug/kg	5.1	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.63	0.21	1
Benzene	ND		ug/kg	0.63	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.5	0.74	1
Vinyl chloride	ND		ug/kg	1.3	0.42	1
Chloroethane	ND		ug/kg	2.5	0.57	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1
Trichloroethene	ND		ug/kg	0.63	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-12 Date Collected: 02/16/22 08:25

Client ID: GRAB 8 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.35	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	0.39	J	ug/kg	1.3	0.14	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
Methyl Acetate	ND		ug/kg	5.1	1.2	1
Cyclohexane	ND		ug/kg	13	0.69	1
1,4-Dioxane	ND		ug/kg	100	44.	1
Freon-113	ND		ug/kg	5.1	0.88	1
Methyl cyclohexane	ND		ug/kg	5.1	0.76	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	89		70-130

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-13
Client ID: GRAB 9
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:30
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/27/22 17:30
Analyst: AJK
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.7	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.3	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.17	1
Dibromochloromethane	ND		ug/kg	1.3	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.36	1
Tetrachloroethene	ND		ug/kg	0.67	0.26	1
Chlorobenzene	ND		ug/kg	0.67	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.93	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.67	0.22	1
Bromodichloromethane	ND		ug/kg	0.67	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.67	0.21	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.67	0.22	1
Benzene	ND		ug/kg	0.67	0.22	1
Toluene	ND		ug/kg	1.3	0.73	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.4	1.2	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.3	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	ND		ug/kg	0.67	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-13 Date Collected: 02/16/22 08:30

Client ID: GRAB 9 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.75	1
o-Xylene	ND		ug/kg	1.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.4	1
Carbon disulfide	ND		ug/kg	13	6.1	1
2-Butanone	ND		ug/kg	13	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.15	1
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
Methyl Acetate	ND		ug/kg	5.4	1.3	1
Cyclohexane	ND		ug/kg	13	0.73	1
1,4-Dioxane	ND		ug/kg	110	47.	1
Freon-113	ND		ug/kg	5.4	0.93	1
Methyl cyclohexane	ND		ug/kg	5.4	0.81	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	111		70-130

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-14
Client ID: GRAB 10
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:35
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/27/22 17:55
Analyst: AJK
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.7	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.3	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.17	1
Dibromochloromethane	ND		ug/kg	1.3	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.36	1
Tetrachloroethene	ND		ug/kg	0.67	0.26	1
Chlorobenzene	ND		ug/kg	0.67	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.93	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.67	0.22	1
Bromodichloromethane	ND		ug/kg	0.67	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.67	0.21	1
Bromoform	ND		ug/kg	5.3	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.67	0.22	1
Benzene	ND		ug/kg	0.67	0.22	1
Toluene	ND		ug/kg	1.3	0.73	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.3	1.2	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.3	0.45	1
Chloroethane	ND		ug/kg	2.7	0.60	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	ND		ug/kg	0.67	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-14 Date Collected: 02/16/22 08:35

Client ID: GRAB 10 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.75	1
o-Xylene	ND		ug/kg	1.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.4	1
Carbon disulfide	ND		ug/kg	13	6.1	1
2-Butanone	ND		ug/kg	13	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
Methyl Acetate	ND		ug/kg	5.3	1.3	1
Cyclohexane	ND		ug/kg	13	0.73	1
1,4-Dioxane	ND		ug/kg	110	47.	1
Freon-113	ND		ug/kg	5.3	0.93	1
Methyl cyclohexane	ND		ug/kg	5.3	0.81	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	111		70-130

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-15
Client ID: GRAB 11
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:40
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/27/22 18:20
Analyst: AJK
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	ND		ug/kg	0.68	0.27	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.23	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.21	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.22	1
Benzene	ND		ug/kg	0.68	0.22	1
Toluene	ND		ug/kg	1.4	0.74	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.4	1.3	1
Bromomethane	ND		ug/kg	2.7	0.79	1
Vinyl chloride	ND		ug/kg	1.4	0.46	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.19	1
Trichloroethene	ND		ug/kg	0.68	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.20	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-15 Date Collected: 02/16/22 08:40

Client ID: GRAB 11 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	50		ug/kg	14	6.5	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.7	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	0.51	J	ug/kg	1.4	0.15	1
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
Methyl Acetate	ND		ug/kg	5.4	1.3	1
Cyclohexane	ND		ug/kg	14	0.74	1
1,4-Dioxane	ND		ug/kg	110	48.	1
Freon-113	ND		ug/kg	5.4	0.94	1
Methyl cyclohexane	ND		ug/kg	5.4	0.82	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	111		70-130

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/27/22 13:45
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-11,13-15 Batch: WG1609940-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	1.4	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/27/22 13:45
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-11,13-15 Batch: WG1609940-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/27/22 13:45
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-11,13-15 Batch: WG1609940-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/01/22 15:43
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1610741-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.64	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/01/22 15:43
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1610741-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/01/22 15:43
Analyst: KJD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1610741-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	91		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-11,13-15 Batch: WG1609940-3 WG1609940-4								
Methylene chloride	79		78		70-130	1		30
1,1-Dichloroethane	93		92		70-130	1		30
Chloroform	79		78		70-130	1		30
Carbon tetrachloride	91		91		70-130	0		30
1,2-Dichloropropane	100		99		70-130	1		30
Dibromochloromethane	87		87		70-130	0		30
1,1,2-Trichloroethane	81		79		70-130	3		30
Tetrachloroethene	87		86		70-130	1		30
Chlorobenzene	89		87		70-130	2		30
Trichlorofluoromethane	91		90		70-139	1		30
1,2-Dichloroethane	95		96		70-130	1		30
1,1,1-Trichloroethane	82		81		70-130	1		30
Bromodichloromethane	81		80		70-130	1		30
trans-1,3-Dichloropropene	87		86		70-130	1		30
cis-1,3-Dichloropropene	89		88		70-130	1		30
Bromoform	81		79		70-130	3		30
1,1,2,2-Tetrachloroethane	85		83		70-130	2		30
Benzene	82		81		70-130	1		30
Toluene	84		82		70-130	2		30
Ethylbenzene	85		83		70-130	2		30
Chloromethane	71		71		52-130	0		30
Bromomethane	90		90		57-147	0		30
Vinyl chloride	77		76		67-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-11,13-15 Batch: WG1609940-3 WG1609940-4								
Chloroethane	86		85		50-151	1		30
1,1-Dichloroethene	81		79		65-135	3		30
trans-1,2-Dichloroethene	81		81		70-130	0		30
Trichloroethene	85		84		70-130	1		30
1,2-Dichlorobenzene	91		90		70-130	1		30
1,3-Dichlorobenzene	93		91		70-130	2		30
1,4-Dichlorobenzene	91		91		70-130	0		30
Methyl tert butyl ether	81		80		66-130	1		30
p/m-Xylene	91		89		70-130	2		30
o-Xylene	90		89		70-130	1		30
cis-1,2-Dichloroethene	80		80		70-130	0		30
Styrene	87		85		70-130	2		30
Dichlorodifluoromethane	34		34		30-146	0		30
Acetone	118		117		54-140	1		30
Carbon disulfide	66		65		59-130	2		30
2-Butanone	102		95		70-130	7		30
4-Methyl-2-pentanone	111		110		70-130	1		30
2-Hexanone	102		103		70-130	1		30
Bromochloromethane	84		85		70-130	1		30
1,2-Dibromoethane	92		90		70-130	2		30
n-Butylbenzene	96		95		70-130	1		30
sec-Butylbenzene	97		96		70-130	1		30
1,2-Dibromo-3-chloropropane	84		86		68-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL

Project Number: T0006-022-002

Lab Number: L2208221

Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-11,13-15 Batch: WG1609940-3 WG1609940-4								
Isopropylbenzene	96		94		70-130	2		30
p-Isopropyltoluene	97		95		70-130	2		30
n-Propylbenzene	94		91		70-130	3		30
1,2,3-Trichlorobenzene	84		85		70-130	1		30
1,2,4-Trichlorobenzene	89		89		70-130	0		30
1,3,5-Trimethylbenzene	93		91		70-130	2		30
1,2,4-Trimethylbenzene	93		91		70-130	2		30
Methyl Acetate	96		97		51-146	1		30
Cyclohexane	116		114		59-142	2		30
1,4-Dioxane	100		101		65-136	1		30
Freon-113	97		96		50-139	1		30
Methyl cyclohexane	92		90		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	104		103		70-130
Dibromofluoromethane	98		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL

Project Number: T0006-022-002

Lab Number: L2208221

Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1610741-3 WG1610741-4								
Methylene chloride	113		111		70-130	2		30
1,1-Dichloroethane	101		98		70-130	3		30
Chloroform	96		95		70-130	1		30
Carbon tetrachloride	93		88		70-130	6		30
1,2-Dichloropropane	103		101		70-130	2		30
Dibromochloromethane	97		97		70-130	0		30
1,1,2-Trichloroethane	98		96		70-130	2		30
Tetrachloroethene	102		100		70-130	2		30
Chlorobenzene	103		101		70-130	2		30
Trichlorofluoromethane	98		92		70-139	6		30
1,2-Dichloroethane	94		92		70-130	2		30
1,1,1-Trichloroethane	98		93		70-130	5		30
Bromodichloromethane	94		94		70-130	0		30
trans-1,3-Dichloropropene	105		102		70-130	3		30
cis-1,3-Dichloropropene	103		103		70-130	0		30
Bromoform	81		81		70-130	0		30
1,1,2,2-Tetrachloroethane	102		102		70-130	0		30
Benzene	104		100		70-130	4		30
Toluene	100		96		70-130	4		30
Ethylbenzene	105		101		70-130	4		30
Chloromethane	118		110		52-130	7		30
Bromomethane	111		103		57-147	7		30
Vinyl chloride	116		109		67-130	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1610741-3 WG1610741-4								
Chloroethane	107		100		50-151	7		30
1,1-Dichloroethene	103		102		65-135	1		30
trans-1,2-Dichloroethene	110		104		70-130	6		30
Trichloroethene	99		97		70-130	2		30
1,2-Dichlorobenzene	105		103		70-130	2		30
1,3-Dichlorobenzene	106		103		70-130	3		30
1,4-Dichlorobenzene	106		103		70-130	3		30
Methyl tert butyl ether	126		114		66-130	10		30
p/m-Xylene	106		101		70-130	5		30
o-Xylene	105		102		70-130	3		30
cis-1,2-Dichloroethene	104		97		70-130	7		30
Styrene	108		104		70-130	4		30
Dichlorodifluoromethane	104		99		30-146	5		30
Acetone	70		70		54-140	0		30
Carbon disulfide	104		99		59-130	5		30
2-Butanone	114		113		70-130	1		30
4-Methyl-2-pentanone	111		109		70-130	2		30
2-Hexanone	98		101		70-130	3		30
Bromochloromethane	97		94		70-130	3		30
1,2-Dibromoethane	100		98		70-130	2		30
n-Butylbenzene	115		110		70-130	4		30
sec-Butylbenzene	108		105		70-130	3		30
1,2-Dibromo-3-chloropropane	99		91		68-130	8		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1610741-3 WG1610741-4								
Isopropylbenzene	105		103		70-130	2		30
p-Isopropyltoluene	110		107		70-130	3		30
n-Propylbenzene	109		104		70-130	5		30
1,2,3-Trichlorobenzene	104		103		70-130	1		30
1,2,4-Trichlorobenzene	109		107		70-130	2		30
1,3,5-Trimethylbenzene	106		102		70-130	4		30
1,2,4-Trimethylbenzene	108		106		70-130	2		30
Methyl Acetate	120		119		51-146	1		30
Cyclohexane	96		93		59-142	3		30
1,4-Dioxane	99		106		65-136	7		30
Freon-113	101		97		50-139	4		30
Methyl cyclohexane	102		99		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		93		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	91		94		70-130
Dibromofluoromethane	92		93		70-130

SEMIVOLATILES

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-01
Client ID: COMP 1
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:50
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/28/22 05:17
Analyst: JRW
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 02/27/22 08:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	110	J	ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	49	J	ug/kg	130	24.	1
Benzo(a)pyrene	55	J	ug/kg	170	52.	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-01 Date Collected: 02/16/22 08:50

Client ID: COMP 1 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	75	J	ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	52	J	ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	33	J	ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	61	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	40	J	ug/kg	170	30.	1
Pyrene	83	J	ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	28.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	87.	1
2,4-Dinitrophenol	ND		ug/kg	1000	99.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	33.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Carbazole	ND		ug/kg	210	21.	1
Atrazine	ND		ug/kg	170	74.	1
Benzaldehyde	ND		ug/kg	280	57.	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-01 Date Collected: 02/16/22 08:50

Client ID: COMP 1 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	210	65.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	210	43.	1
1,4-Dioxane	ND		ug/kg	32	9.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	57		18-120

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-01
Client ID: COMP 1
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:50
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/23/22 02:07
Analyst: RS
Percent Solids: 78%

Extraction Method: ALPHA 23528
Extraction Date: 02/18/22 08:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.067	J	ng/g	0.576	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.576	0.053	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.288	0.045	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.576	0.061	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.288	0.052	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.288	0.070	1
Perfluorooctanoic Acid (PFOA)	0.169	J	ng/g	0.288	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.576	0.207	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.576	0.157	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.288	0.086	1
Perfluorooctanesulfonic Acid (PFOS)	0.480		ng/g	0.288	0.150	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.288	0.077	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.576	0.330	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.576	0.232	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.576	0.054	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.576	0.176	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.576	0.097	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.576	0.081	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.576	0.236	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.576	0.062	1
PFOA/PFOS, Total	0.649	J	ng/g	0.288	0.048	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-01 Date Collected: 02/16/22 08:50

Client ID: COMP 1 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	58		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**71**	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	56		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	44		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	104		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	36		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	109		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	40		24-159

Project Name: 1168 BROADWAY TOPSOIL
Lab Number: L2208221
Project Number: T0006-022-002
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-01
Client ID: COMP 1
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:50
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/23/22 14:32
Analyst: RS
Percent Solids: 78%

Extraction Method: ALPHA 23528
Extraction Date: 02/18/22 08:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.576	0.113	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	95		10-117

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-02
Client ID: COMP 2
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 09:00
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/28/22 04:53
Analyst: JRW
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 02/27/22 07:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	29.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	78	J	ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	36	J	ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-02 Date Collected: 02/16/22 09:00

Client ID: COMP 2 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	51	J	ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	39	J	ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	42	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	58	J	ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	28.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	41.	1
p-Chloro-m-cresol	ND		ug/kg	220	32.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	35.	1
2,4-Dimethylphenol	ND		ug/kg	220	72.	1
2-Nitrophenol	ND		ug/kg	470	82.	1
4-Nitrophenol	ND		ug/kg	300	89.	1
2,4-Dinitrophenol	ND		ug/kg	1000	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	100	1
Pentachlorophenol	ND		ug/kg	170	48.	1
Phenol	ND		ug/kg	220	33.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1
2,4,5-Trichlorophenol	ND		ug/kg	220	42.	1
Carbazole	ND		ug/kg	220	21.	1
Atrazine	ND		ug/kg	170	76.	1
Benzaldehyde	ND		ug/kg	290	59.	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-02 Date Collected: 02/16/22 09:00

Client ID: COMP 2 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	220	66.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	220	44.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	62		18-120

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-02
Client ID: COMP 2
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 09:00
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/23/22 02:24
Analyst: RS
Percent Solids: 74%

Extraction Method: ALPHA 23528
Extraction Date: 02/18/22 08:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.064	J	ng/g	0.605	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.605	0.056	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.303	0.047	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.605	0.064	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.303	0.055	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.303	0.073	1
Perfluorooctanoic Acid (PFOA)	0.161	J	ng/g	0.303	0.051	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.605	0.217	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.605	0.165	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.303	0.091	1
Perfluorooctanesulfonic Acid (PFOS)	0.492		ng/g	0.303	0.157	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.303	0.081	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.605	0.348	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.605	0.244	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.605	0.057	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.605	0.185	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.605	0.119	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.605	0.102	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.605	0.085	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.605	0.248	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.605	0.065	1
PFOA/PFOS, Total	0.653	J	ng/g	0.303	0.051	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-02 Date Collected: 02/16/22 09:00

Client ID: COMP 2 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	59		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	74		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	64		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	59		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	38		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	55		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	115		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	65		24-159

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-03
Client ID: COMP 3
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 09:10
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/28/22 05:41
Analyst: JRW
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 02/27/22 07:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	59.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	630		ug/kg	130	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	640	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	77.	1
Butyl benzyl phthalate	ND		ug/kg	220	56.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	76.	1
Diethyl phthalate	ND		ug/kg	220	21.	1
Dimethyl phthalate	ND		ug/kg	220	47.	1
Benzo(a)anthracene	280		ug/kg	130	25.	1
Benzo(a)pyrene	300		ug/kg	180	54.	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-03 Date Collected: 02/16/22 09:10

Client ID: COMP 3 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	370		ug/kg	130	38.	1
Benzo(k)fluoranthene	130		ug/kg	130	36.	1
Chrysene	260		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	57	J	ug/kg	130	43.	1
Benzo(ghi)perylene	150	J	ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	220		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	40	J	ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	190		ug/kg	180	31.	1
Pyrene	490		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	510	29.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	43.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	92.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	42.	1
p-Chloro-m-cresol	ND		ug/kg	220	33.	1
2-Chlorophenol	ND		ug/kg	220	26.	1
2,4-Dichlorophenol	ND		ug/kg	200	36.	1
2,4-Dimethylphenol	ND		ug/kg	220	74.	1
2-Nitrophenol	ND		ug/kg	480	84.	1
4-Nitrophenol	ND		ug/kg	310	91.	1
2,4-Dinitrophenol	ND		ug/kg	1100	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	580	110	1
Pentachlorophenol	ND		ug/kg	180	49.	1
Phenol	ND		ug/kg	220	34.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1
2,4,5-Trichlorophenol	ND		ug/kg	220	43.	1
Carbazole	33	J	ug/kg	220	22.	1
Atrazine	ND		ug/kg	180	78.	1
Benzaldehyde	ND		ug/kg	290	60.	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-03 Date Collected: 02/16/22 09:10

Client ID: COMP 3 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	220	68.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	220	45.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	69		18-120

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-03
Client ID: COMP 3
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 09:10
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/23/22 02:40
Analyst: RS
Percent Solids: 74%

Extraction Method: ALPHA 23528
Extraction Date: 02/18/22 08:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.127	J	ng/g	0.637	0.029	1
Perfluoropentanoic Acid (PFPeA)	0.061	J	ng/g	0.637	0.059	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.319	0.050	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.637	0.067	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.319	0.058	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.319	0.077	1
Perfluorooctanoic Acid (PFOA)	0.203	J	ng/g	0.319	0.053	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.637	0.229	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.637	0.174	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.319	0.096	1
Perfluorooctanesulfonic Acid (PFOS)	0.491		ng/g	0.319	0.166	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.319	0.085	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.637	0.366	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.637	0.257	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.637	0.060	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.637	0.195	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.637	0.125	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.637	0.108	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.637	0.089	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.637	0.261	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.637	0.069	1
PFOA/PFOS, Total	0.694	J	ng/g	0.319	0.053	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-03 Date Collected: 02/16/22 09:10

Client ID: COMP 3 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	83		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	58		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**71**	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	59		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	46		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	33		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	42		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	104		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	33		24-159

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-04
Client ID: COMP 4
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 09:20
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/28/22 06:04
Analyst: JRW
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 02/27/22 09:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	32	J	ug/kg	180	24.	1
Hexachlorobenzene	ND		ug/kg	140	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	31.	1
2-Chloronaphthalene	ND		ug/kg	230	22.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	60.	1
2,4-Dinitrotoluene	ND		ug/kg	230	46.	1
2,6-Dinitrotoluene	ND		ug/kg	230	39.	1
Fluoranthene	1200		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	35.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	39.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	23.	1
Hexachlorobutadiene	ND		ug/kg	230	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	650	210	1
Hexachloroethane	ND		ug/kg	180	37.	1
Isophorone	ND		ug/kg	200	30.	1
Naphthalene	ND		ug/kg	230	28.	1
Nitrobenzene	ND		ug/kg	200	34.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	79.	1
Butyl benzyl phthalate	ND		ug/kg	230	57.	1
Di-n-butylphthalate	ND		ug/kg	230	43.	1
Di-n-octylphthalate	ND		ug/kg	230	77.	1
Diethyl phthalate	ND		ug/kg	230	21.	1
Dimethyl phthalate	ND		ug/kg	230	48.	1
Benzo(a)anthracene	460		ug/kg	140	26.	1
Benzo(a)pyrene	470		ug/kg	180	56.	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-04 Date Collected: 02/16/22 09:20

Client ID: COMP 4 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	600		ug/kg	140	38.	1
Benzo(k)fluoranthene	220		ug/kg	140	36.	1
Chrysene	460		ug/kg	140	24.	1
Acenaphthylene	61	J	ug/kg	180	35.	1
Anthracene	130	J	ug/kg	140	44.	1
Benzo(ghi)perylene	220		ug/kg	180	27.	1
Fluorene	120	J	ug/kg	230	22.	1
Phenanthrene	880		ug/kg	140	28.	1
Dibenzo(a,h)anthracene	65	J	ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	300		ug/kg	180	32.	1
Pyrene	810		ug/kg	140	23.	1
Biphenyl	ND		ug/kg	520	30.	1
4-Chloroaniline	ND		ug/kg	230	41.	1
2-Nitroaniline	ND		ug/kg	230	44.	1
3-Nitroaniline	ND		ug/kg	230	43.	1
4-Nitroaniline	ND		ug/kg	230	94.	1
Dibenzofuran	44	J	ug/kg	230	22.	1
2-Methylnaphthalene	ND		ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	24.	1
Acetophenone	ND		ug/kg	230	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	43.	1
p-Chloro-m-cresol	ND		ug/kg	230	34.	1
2-Chlorophenol	ND		ug/kg	230	27.	1
2,4-Dichlorophenol	ND		ug/kg	200	37.	1
2,4-Dimethylphenol	ND		ug/kg	230	75.	1
2-Nitrophenol	ND		ug/kg	490	86.	1
4-Nitrophenol	ND		ug/kg	320	93.	1
2,4-Dinitrophenol	ND		ug/kg	1100	110	1
4,6-Dinitro-o-cresol	ND		ug/kg	590	110	1
Pentachlorophenol	ND		ug/kg	180	50.	1
Phenol	ND		ug/kg	230	34.	1
2-Methylphenol	ND		ug/kg	230	35.	1
3-Methylphenol/4-Methylphenol	48	J	ug/kg	330	36.	1
2,4,5-Trichlorophenol	ND		ug/kg	230	44.	1
Carbazole	100	J	ug/kg	230	22.	1
Atrazine	ND		ug/kg	180	80.	1
Benzaldehyde	ND		ug/kg	300	61.	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-04 Date Collected: 02/16/22 09:20

Client ID: COMP 4 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	230	69.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	230	46.	1
1,4-Dioxane	ND		ug/kg	34	10.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	61		18-120

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-04
Client ID: COMP 4
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 09:20
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/23/22 02:57
Analyst: RS
Percent Solids: 72%

Extraction Method: ALPHA 23528
Extraction Date: 02/18/22 08:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.085	J	ng/g	0.626	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.626	0.058	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.313	0.049	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.626	0.066	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.313	0.057	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.313	0.076	1
Perfluorooctanoic Acid (PFOA)	0.203	J	ng/g	0.313	0.053	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.626	0.225	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.626	0.171	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.313	0.094	1
Perfluorooctanesulfonic Acid (PFOS)	0.998		ng/g	0.313	0.163	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.313	0.084	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.626	0.359	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.626	0.252	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.626	0.059	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.626	0.192	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.626	0.123	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.626	0.106	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.626	0.088	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.626	0.256	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.626	0.068	1
PFOA/PFOS, Total	1.20	J	ng/g	0.313	0.053	1

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-04 Date Collected: 02/16/22 09:20

Client ID: COMP 4 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	80		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	57		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**64**	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	87		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	86		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	57		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	44		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	91		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	24		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**33**	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	**20**	Q	24-159

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/22/22 20:20
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 02/18/22 08:38

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-04 Batch: WG1606408-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/22/22 20:20
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 02/18/22 08:38

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-04 Batch: WG1606408-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	102		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	106		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	59		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	78		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	62		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	82		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	14		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	87		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	129		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	133		24-159

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/23/22 13:20
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 02/18/22 08:38

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-04 Batch: WG1606408-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**138**	Q	10-117

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/27/22 23:48
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 02/27/22 07:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1609453-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/27/22 23:48
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 02/27/22 07:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1609453-1					
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/27/22 23:48
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 02/27/22 07:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1609453-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	77		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 Batch: WG1606408-2								
Perfluorobutanoic Acid (PFBA)	101		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	109		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	90		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	94		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	91		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	103		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	97		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	100		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	83		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	129		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	100		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	98		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	97		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	103		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	91		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	90		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	96		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	94		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	90		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	92		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	80		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL

Project Number: T0006-022-002

Lab Number: L2208221

Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 Batch: WG1606408-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	95				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	107				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	63				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	80				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	62				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	80				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	13				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	91				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	131				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	130				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL

Project Number: T0006-022-002

Lab Number: L2208221

Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 Batch: WG1606408-2								
Perfluorooctanesulfonamide (FOSA)	107		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**151**	Q			10-117

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1609453-2 WG1609453-3								
Acenaphthene	82		77		31-137	6		50
Hexachlorobenzene	83		81		40-140	2		50
Bis(2-chloroethyl)ether	72		67		40-140	7		50
2-Chloronaphthalene	77		72		40-140	7		50
3,3'-Dichlorobenzidine	55		54		40-140	2		50
2,4-Dinitrotoluene	101		98		40-132	3		50
2,6-Dinitrotoluene	93		88		40-140	6		50
Fluoranthene	85		81		40-140	5		50
4-Chlorophenyl phenyl ether	79		76		40-140	4		50
4-Bromophenyl phenyl ether	84		82		40-140	2		50
Bis(2-chloroisopropyl)ether	57		52		40-140	9		50
Bis(2-chloroethoxy)methane	80		74		40-117	8		50
Hexachlorobutadiene	70		63		40-140	11		50
Hexachlorocyclopentadiene	84		78		40-140	7		50
Hexachloroethane	76		70		40-140	8		50
Isophorone	79		73		40-140	8		50
Naphthalene	76		70		40-140	8		50
Nitrobenzene	88		81		40-140	8		50
NDPA/DPA	86		83		36-157	4		50
n-Nitrosodi-n-propylamine	76		71		32-121	7		50
Bis(2-ethylhexyl)phthalate	100		95		40-140	5		50
Butyl benzyl phthalate	100		94		40-140	6		50
Di-n-butylphthalate	95		90		40-140	5		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002
Lab Number: L2208221
Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1609453-2 WG1609453-3								
Di-n-octylphthalate	101		96		40-140	5		50
Diethyl phthalate	88		85		40-140	3		50
Dimethyl phthalate	81		76		40-140	6		50
Benzo(a)anthracene	78		76		40-140	3		50
Benzo(a)pyrene	86		84		40-140	2		50
Benzo(b)fluoranthene	86		84		40-140	2		50
Benzo(k)fluoranthene	81		79		40-140	3		50
Chrysene	78		75		40-140	4		50
Acenaphthylene	83		77		40-140	8		50
Anthracene	84		80		40-140	5		50
Benzo(ghi)perylene	80		78		40-140	3		50
Fluorene	86		82		40-140	5		50
Phenanthrene	81		78		40-140	4		50
Dibenzo(a,h)anthracene	76		75		40-140	1		50
Indeno(1,2,3-cd)pyrene	88		86		40-140	2		50
Pyrene	84		80		35-142	5		50
Biphenyl	80		75		37-127	6		50
4-Chloroaniline	75		68		40-140	10		50
2-Nitroaniline	115		108		47-134	6		50
3-Nitroaniline	84		84		26-129	0		50
4-Nitroaniline	105		101		41-125	4		50
Dibenzofuran	80		76		40-140	5		50
2-Methylnaphthalene	82		74		40-140	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1609453-2 WG1609453-3								
1,2,4,5-Tetrachlorobenzene	78		73		40-117	7		50
Acetophenone	78		73		14-144	7		50
2,4,6-Trichlorophenol	89		83		30-130	7		50
p-Chloro-m-cresol	93		86		26-103	8		50
2-Chlorophenol	86		79		25-102	8		50
2,4-Dichlorophenol	89		84		30-130	6		50
2,4-Dimethylphenol	88		82		30-130	7		50
2-Nitrophenol	122		112		30-130	9		50
4-Nitrophenol	**121**	Q	**116**	Q	11-114	4		50
2,4-Dinitrophenol	47		48		4-130	2		50
4,6-Dinitro-o-cresol	111		110		10-130	1		50
Pentachlorophenol	94		90		17-109	4		50
Phenol	75		69		26-90	8		50
2-Methylphenol	84		77		30-130.	9		50
3-Methylphenol/4-Methylphenol	92		86		30-130	7		50
2,4,5-Trichlorophenol	91		86		30-130	6		50
Carbazole	88		84		54-128	5		50
Atrazine	84		80		40-140	5		50
Benzaldehyde	72		66		40-140	9		50
Caprolactam	81		76		15-130	6		50
2,3,4,6-Tetrachlorophenol	95		94		40-140	1		50
1,4-Dioxane	46		43		40-140	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1609453-2 WG1609453-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	78		72		25-120
Phenol-d6	80		74		10-120
Nitrobenzene-d5	94		86		23-120
2-Fluorobiphenyl	73		68		30-120
2,4,6-Tribromophenol	96		93		10-136
4-Terphenyl-d14	79		76		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL

Project Number: T0006-022-002

Lab Number: L2208221

Report Date: 03/04/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1606408-3 QC Sample: L2207938-03 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	0.024J	5.3	5.36	101		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	0.088J	5.3	5.83	108		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.7	4.24	90		-	-		72-128	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	4.96	4.88	98		-	-		62-145	-		30
Perfluorohexanoic Acid (PFHxA)	0.092J	5.3	5.11	95		-	-		70-132	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	4.98	4.52	91		-	-		73-123	-		30
Perfluoroheptanoic Acid (PFHpA)	0.060J	5.3	4.79	89		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.84	5.05	104		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	0.216J	5.3	5.29	96		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.04	4.87	97		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.04	4.40	87		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	0.114J	5.3	6.96	129		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	0.802	4.92	5.90	104		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	0.105J	5.3	5.08	94		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.09	4.08	80		-	-		65-137	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	5.1	4.51	89		-	-		69-125	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.3	5.10	96		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.3	4.72	89		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.11	4.49	88		-	-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	ND	5.3	4.83	91		-	-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.3	5.90	111		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	5.3	4.86	92		-	-		69-135	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1606408-3 QC Sample: L2207938-03 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	5.3	4.63	87		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.3	4.32	82		-	-		69-133	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	64				19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	57				14-167
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	59				20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	48				34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	48				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85				75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	78				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89				78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	106				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	77				24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	86				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	87				58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	87				10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	87				79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	82				75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**66**	Q			72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	86				74-139

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1606408-4 QC Sample: L2207938-04 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	0.038J	0.029J	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	0.243J	0.246J	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	0.209J	0.184J	ng/g	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	0.129J	0.119J	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	0.520	0.473	ng/g	9		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	0.184J	0.163J	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	0.458	0.383	ng/g	18		30
Perfluorodecanoic Acid (PFDA)	0.416	0.334	ng/g	22		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1606408-4 QC Sample: L2207938-04 Client ID: DUP Sample						
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		87		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		91		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		90		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	55		53		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		81		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		93		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		93		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		85		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	61		57		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	73		**70**	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		92		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	67		60		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	60		53		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		102		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	70		62		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	123		114		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	112		100		24-159

PCBS

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-01
Client ID: COMP 1
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:50
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/01/22 14:31
Analyst: JM
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 03/01/22 02:16
Cleanup Method: EPA 3665A
Cleanup Date: 03/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.4	3.76	1	A
Aroclor 1221	ND		ug/kg	42.4	4.24	1	A
Aroclor 1232	ND		ug/kg	42.4	8.98	1	A
Aroclor 1242	ND		ug/kg	42.4	5.71	1	A
Aroclor 1248	ND		ug/kg	42.4	6.35	1	A
Aroclor 1254	ND		ug/kg	42.4	4.63	1	A
Aroclor 1260	ND		ug/kg	42.4	7.83	1	A
Aroclor 1262	ND		ug/kg	42.4	5.38	1	A
Aroclor 1268	ND		ug/kg	42.4	4.39	1	A
PCBs, Total	ND		ug/kg	42.4	3.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-02
Client ID: COMP 2
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 09:00
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/01/22 17:38
Analyst: AWS
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 03/01/22 02:16
Cleanup Method: EPA 3665A
Cleanup Date: 03/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.7	3.79	1	A
Aroclor 1221	ND		ug/kg	42.7	4.28	1	A
Aroclor 1232	ND		ug/kg	42.7	9.06	1	A
Aroclor 1242	ND		ug/kg	42.7	5.76	1	A
Aroclor 1248	ND		ug/kg	42.7	6.41	1	A
Aroclor 1254	ND		ug/kg	42.7	4.67	1	A
Aroclor 1260	ND		ug/kg	42.7	7.90	1	A
Aroclor 1262	ND		ug/kg	42.7	5.42	1	A
Aroclor 1268	ND		ug/kg	42.7	4.43	1	A
PCBs, Total	ND		ug/kg	42.7	3.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	100		30-150	B

Project Name: 1168 BROADWAY TOPSOIL
Lab Number: L2208221
Project Number: T0006-022-002
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-03
Client ID: COMP 3
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 09:10
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/01/22 17:46
Analyst: AWS
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 03/01/22 02:16
Cleanup Method: EPA 3665A
Cleanup Date: 03/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.6	3.87	1	A
Aroclor 1221	ND		ug/kg	43.6	4.36	1	A
Aroclor 1232	ND		ug/kg	43.6	9.23	1	A
Aroclor 1242	ND		ug/kg	43.6	5.87	1	A
Aroclor 1248	ND		ug/kg	43.6	6.53	1	A
Aroclor 1254	ND		ug/kg	43.6	4.76	1	A
Aroclor 1260	ND		ug/kg	43.6	8.05	1	A
Aroclor 1262	ND		ug/kg	43.6	5.53	1	A
Aroclor 1268	59.2		ug/kg	43.6	4.51	1	B
PCBs, Total	59.2		ug/kg	43.6	3.87	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	**265**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	**299**	Q	30-150	B

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-04
Client ID: COMP 4
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 09:20
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/01/22 17:55
Analyst: AWS
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 03/01/22 02:16
Cleanup Method: EPA 3665A
Cleanup Date: 03/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	45.6	4.05	1	A
Aroclor 1221	ND		ug/kg	45.6	4.57	1	A
Aroclor 1232	ND		ug/kg	45.6	9.66	1	A
Aroclor 1242	ND		ug/kg	45.6	6.14	1	A
Aroclor 1248	ND		ug/kg	45.6	6.84	1	A
Aroclor 1254	ND		ug/kg	45.6	4.99	1	A
Aroclor 1260	ND		ug/kg	45.6	8.42	1	A
Aroclor 1262	ND		ug/kg	45.6	5.79	1	A
Aroclor 1268	ND		ug/kg	45.6	4.72	1	A
PCBs, Total	ND		ug/kg	45.6	4.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	116		30-150	B

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002
Lab Number: L2208221
Report Date: 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/01/22 11:35
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 03/01/22 02:16
Cleanup Method: EPA 3665A
Cleanup Date: 03/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-04 Batch: WG1609962-1						
Aroclor 1016	ND		ug/kg	32.6	2.89	A
Aroclor 1221	ND		ug/kg	32.6	3.26	A
Aroclor 1232	ND		ug/kg	32.6	6.90	A
Aroclor 1242	ND		ug/kg	32.6	4.39	A
Aroclor 1248	ND		ug/kg	32.6	4.88	A
Aroclor 1254	ND		ug/kg	32.6	3.56	A
Aroclor 1260	ND		ug/kg	32.6	6.02	A
Aroclor 1262	ND		ug/kg	32.6	4.13	A
Aroclor 1268	ND		ug/kg	32.6	3.37	A
PCBs, Total	ND		ug/kg	32.6	2.89	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	71		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL

Project Number: T0006-022-002

Lab Number: L2208221

Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1609962-2 WG1609962-3									
Aroclor 1016	68		70		40-140	3		50	A
Aroclor 1260	66		68		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		73		30-150	A
Decachlorobiphenyl	75		77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		77		30-150	B
Decachlorobiphenyl	72		79		30-150	B

PESTICIDES

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-01
Client ID: COMP 1
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:50
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/02/22 16:18
Analyst: MSF
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 02/28/22 12:11
Cleanup Method: EPA 3620B
Cleanup Date: 03/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.97	0.386	1	A
Lindane	ND		ug/kg	0.821	0.367	1	A
Alpha-BHC	ND		ug/kg	0.821	0.233	1	A
Beta-BHC	ND		ug/kg	1.97	0.747	1	A
Heptachlor	ND		ug/kg	0.985	0.442	1	A
Aldrin	ND		ug/kg	1.97	0.694	1	A
Heptachlor epoxide	ND		ug/kg	3.69	1.11	1	A
Endrin	ND		ug/kg	0.821	0.336	1	A
Endrin aldehyde	ND		ug/kg	2.46	0.862	1	A
Endrin ketone	ND		ug/kg	1.97	0.507	1	A
Dieldrin	ND		ug/kg	1.23	0.616	1	A
4,4'-DDE	7.95		ug/kg	1.97	0.456	1	B
4,4'-DDD	ND		ug/kg	1.97	0.702	1	A
4,4'-DDT	5.72		ug/kg	3.69	1.58	1	B
Endosulfan I	ND		ug/kg	1.97	0.465	1	A
Endosulfan II	ND		ug/kg	1.97	0.658	1	A
Endosulfan sulfate	ND		ug/kg	0.821	0.391	1	A
Methoxychlor	ND		ug/kg	3.69	1.15	1	A
Toxaphene	ND		ug/kg	36.9	10.3	1	A
cis-Chlordane	ND		ug/kg	2.46	0.686	1	A
trans-Chlordane	ND		ug/kg	2.46	0.650	1	A
Chlordane	ND		ug/kg	16.4	6.52	1	A

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-01 Date Collected: 02/16/22 08:50

Client ID: COMP 1 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: 1168 BROADWAY TOPSOIL
Lab Number: L2208221
Project Number: T0006-022-002
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-01
Client ID: COMP 1
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:50
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/01/22 14:55
Analyst: EJL
Percent Solids: 78%
Methylation Date: 03/01/22 05:56

Extraction Method: EPA 8151A
Extraction Date: 02/28/22 07:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	213	5.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	68		30-150	B

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002
Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-02
Client ID: COMP 2
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 09:00
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/03/22 16:35
Analyst: AR
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 02/28/22 12:11
Cleanup Method: EPA 3620B
Cleanup Date: 03/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.10	0.412	1	A
Lindane	ND		ug/kg	0.876	0.392	1	A
Alpha-BHC	ND		ug/kg	0.876	0.249	1	A
Beta-BHC	ND		ug/kg	2.10	0.797	1	A
Heptachlor	ND		ug/kg	1.05	0.471	1	A
Aldrin	ND		ug/kg	2.10	0.740	1	A
Heptachlor epoxide	ND		ug/kg	3.94	1.18	1	A
Endrin	ND		ug/kg	0.876	0.359	1	A
Endrin aldehyde	ND		ug/kg	2.63	0.920	1	A
Endrin ketone	ND		ug/kg	2.10	0.541	1	A
Dieldrin	ND		ug/kg	1.31	0.657	1	A
4,4'-DDE	26.2		ug/kg	2.10	0.486	1	B
4,4'-DDD	0.872	JIP	ug/kg	2.10	0.750	1	B
4,4'-DDT	12.8		ug/kg	3.94	1.69	1	B
Endosulfan I	ND		ug/kg	2.10	0.497	1	A
Endosulfan II	ND		ug/kg	2.10	0.703	1	A
Endosulfan sulfate	ND		ug/kg	0.876	0.417	1	A
Methoxychlor	ND		ug/kg	3.94	1.23	1	A
Toxaphene	ND		ug/kg	39.4	11.0	1	A
cis-Chlordane	1.05	J	ug/kg	2.63	0.732	1	B
trans-Chlordane	ND	IP	ug/kg	2.63	0.694	1	B
Chlordane	ND		ug/kg	17.5	6.96	1	A

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-02 Date Collected: 02/16/22 09:00

Client ID: COMP 2 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	41		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-02
Client ID: COMP 2
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 09:00
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/01/22 11:16
Analyst: EJL
Percent Solids: 74%
Methylation Date: 03/01/22 05:56

Extraction Method: EPA 8151A
Extraction Date: 02/28/22 07:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	224	5.95	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	75		30-150	B

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-03
Client ID: COMP 3
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 09:10
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/02/22 16:29
Analyst: MSF
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 02/28/22 06:47
Cleanup Method: EPA 3620B
Cleanup Date: 03/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.08	0.407	1	A
Lindane	ND		ug/kg	0.866	0.387	1	A
Alpha-BHC	ND		ug/kg	0.866	0.246	1	A
Beta-BHC	ND		ug/kg	2.08	0.788	1	A
Heptachlor	ND		ug/kg	1.04	0.466	1	A
Aldrin	ND		ug/kg	2.08	0.732	1	A
Heptachlor epoxide	ND		ug/kg	3.90	1.17	1	A
Endrin	ND		ug/kg	0.866	0.355	1	A
Endrin aldehyde	ND		ug/kg	2.60	0.909	1	A
Endrin ketone	ND		ug/kg	2.08	0.535	1	A
Dieldrin	ND		ug/kg	1.30	0.650	1	A
4,4'-DDE	62.9		ug/kg	2.08	0.481	1	B
4,4'-DDD	3.07		ug/kg	2.08	0.741	1	B
4,4'-DDT	12.4		ug/kg	3.90	1.67	1	B
Endosulfan I	ND		ug/kg	2.08	0.491	1	A
Endosulfan II	ND		ug/kg	2.08	0.694	1	A
Endosulfan sulfate	ND		ug/kg	0.866	0.412	1	A
Methoxychlor	ND		ug/kg	3.90	1.21	1	A
Toxaphene	ND		ug/kg	39.0	10.9	1	A
cis-Chlordane	ND		ug/kg	2.60	0.724	1	A
trans-Chlordane	ND		ug/kg	2.60	0.686	1	A
Chlordane	ND		ug/kg	17.3	6.88	1	A

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-03 Date Collected: 02/16/22 09:10

Client ID: COMP 3 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-03
Client ID: COMP 3
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 09:10
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/01/22 11:34
Analyst: EJL
Percent Solids: 74%
Methylation Date: 03/01/22 05:56

Extraction Method: EPA 8151A
Extraction Date: 02/28/22 07:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	222	5.89	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	94		30-150	A
DCAA	80		30-150	B

Project Name: 1168 BROADWAY TOPSOIL
Lab Number: L2208221
Project Number: T0006-022-002
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-04
Client ID: COMP 4
Sample Location: BROADWAY & TWO RED RD
Date Collected: 02/16/22 09:20
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/02/22 16:40
Analyst: MSF
Percent Solids: 72%

Extraction Method: EPA 3546
Extraction Date: 02/28/22 06:47
Cleanup Method: EPA 3620B
Cleanup Date: 03/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.14	0.418	1	A
Lindane	ND		ug/kg	0.890	0.398	1	A
Alpha-BHC	ND		ug/kg	0.890	0.253	1	A
Beta-BHC	ND		ug/kg	2.14	0.810	1	A
Heptachlor	ND		ug/kg	1.07	0.479	1	A
Aldrin	ND		ug/kg	2.14	0.752	1	A
Heptachlor epoxide	ND		ug/kg	4.00	1.20	1	A
Endrin	ND		ug/kg	0.890	0.365	1	A
Endrin aldehyde	ND		ug/kg	2.67	0.935	1	A
Endrin ketone	ND		ug/kg	2.14	0.550	1	A
Dieldrin	ND		ug/kg	1.34	0.668	1	A
4,4'-DDE	67.8		ug/kg	2.14	0.494	1	A
4,4'-DDD	21.4		ug/kg	2.14	0.762	1	B
4,4'-DDT	39.5		ug/kg	4.00	1.72	1	B
Endosulfan I	ND		ug/kg	2.14	0.505	1	A
Endosulfan II	ND		ug/kg	2.14	0.714	1	A
Endosulfan sulfate	ND		ug/kg	0.890	0.424	1	A
Methoxychlor	ND		ug/kg	4.00	1.25	1	A
Toxaphene	ND		ug/kg	40.0	11.2	1	A
cis-Chlordane	ND		ug/kg	2.67	0.744	1	A
trans-Chlordane	ND		ug/kg	2.67	0.705	1	A
Chlordane	ND		ug/kg	17.8	7.08	1	A

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-04 Date Collected: 02/16/22 09:20

Client ID: COMP 4 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	98		30-150	B

Project Name: 1168 BROADWAY TOPSOIL
Lab Number: L2208221
Project Number: T0006-022-002
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-04
Client ID: COMP 4
Sample Location: BROADWAY & TWO RED RD
Date Collected: 02/16/22 09:20
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 03/01/22 11:52
Analyst: EJL
Percent Solids: 72%
Methylation Date: 03/01/22 05:56
Extraction Method: EPA 8151A
Extraction Date: 02/28/22 07:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	229	6.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	66		30-150	B

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/02/22 13:28
Analyst: MSF

Extraction Method: EPA 3546
Extraction Date: 02/28/22 06:47
Cleanup Method: EPA 3620B
Cleanup Date: 03/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1609587-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.637	0.285	A
Alpha-BHC	ND		ug/kg	0.637	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.580	A
Heptachlor	ND		ug/kg	0.765	0.343	A
Aldrin	ND		ug/kg	1.53	0.538	A
Heptachlor epoxide	ND		ug/kg	2.87	0.860	A
Endrin	ND		ug/kg	0.637	0.261	A
Endrin aldehyde	ND		ug/kg	1.91	0.669	A
Endrin ketone	ND		ug/kg	1.53	0.394	A
Dieldrin	ND		ug/kg	0.956	0.478	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.546	A
4,4'-DDT	ND		ug/kg	2.87	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.361	A
Endosulfan II	ND		ug/kg	1.53	0.511	A
Endosulfan sulfate	ND		ug/kg	0.637	0.303	A
Methoxychlor	ND		ug/kg	2.87	0.892	A
Toxaphene	ND		ug/kg	28.7	8.03	A
cis-Chlordane	ND		ug/kg	1.91	0.533	A
trans-Chlordane	ND		ug/kg	1.91	0.505	A
Chlordane	ND		ug/kg	12.7	5.07	A

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002
Lab Number: L2208221
Report Date: 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/02/22 13:28
Analyst: MSF

Extraction Method: EPA 3546
Extraction Date: 02/28/22 06:47
Cleanup Method: EPA 3620B
Cleanup Date: 03/01/22
Cleanup Method: EPA 3660B
Cleanup Date: 03/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1609587-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002
Lab Number: L2208221
Report Date: 03/04/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 03/01/22 08:31
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 02/28/22 07:41

Methylation Date: 03/01/22 05:56

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1609606-1						
2,4,5-TP (Silvex)	ND		ug/kg	164	4.36	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	100		30-150	A
DCAA	80		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1609587-2 WG1609587-3									
Delta-BHC	58		80		30-150	**32**	Q	30	A
Lindane	72		94		30-150	27		30	A
Alpha-BHC	79		103		30-150	26		30	A
Beta-BHC	79		93		30-150	16		30	A
Heptachlor	77		98		30-150	24		30	A
Aldrin	74		96		30-150	26		30	A
Heptachlor epoxide	66		87		30-150	27		30	A
Endrin	76		100		30-150	27		30	A
Endrin aldehyde	54		74		30-150	**31**	Q	30	A
Endrin ketone	65		88		30-150	30		30	A
Dieldrin	79		104		30-150	27		30	A
4,4'-DDE	68		91		30-150	29		30	A
4,4'-DDD	84		111		30-150	28		30	A
4,4'-DDT	74		99		30-150	29		30	A
Endosulfan I	71		92		30-150	26		30	A
Endosulfan II	75		98		30-150	27		30	A
Endosulfan sulfate	60		81		30-150	30		30	A
Methoxychlor	74		96		30-150	26		30	A
cis-Chlordane	58		73		30-150	23		30	A
trans-Chlordane	78		103		30-150	28		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1609587-2 WG1609587-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		94		30-150	A
Decachlorobiphenyl	80		112		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		91		30-150	B
Decachlorobiphenyl	77		107		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1609606-2 WG1609606-3									
2,4,5-TP (Silvex)	89		85		30-150	5		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	99		99		30-150	A
DCAA	91		90		30-150	B

METALS

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-01 Date Collected: 02/16/22 08:50

Client ID: COMP 1 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.65		mg/kg	0.491	0.102	1	02/22/22 16:02	03/04/22 00:16	EPA 3050B	1,6010D	BV
Barium, Total	30.2		mg/kg	0.491	0.086	1	02/22/22 16:02	03/04/22 00:16	EPA 3050B	1,6010D	BV
Beryllium, Total	0.246		mg/kg	0.246	0.016	1	02/22/22 16:02	03/04/22 00:16	EPA 3050B	1,6010D	BV
Cadmium, Total	0.491		mg/kg	0.491	0.048	1	02/22/22 16:02	03/04/22 00:16	EPA 3050B	1,6010D	BV
Chromium, Total	6.17		mg/kg	0.491	0.047	1	02/22/22 16:02	03/04/22 00:16	EPA 3050B	1,6010D	BV
Copper, Total	8.13		mg/kg	0.491	0.127	1	02/22/22 16:02	03/04/22 00:16	EPA 3050B	1,6010D	BV
Lead, Total	28.6		mg/kg	2.46	0.132	1	02/22/22 16:02	03/04/22 00:16	EPA 3050B	1,6010D	BV
Manganese, Total	95.3		mg/kg	0.491	0.078	1	02/22/22 16:02	03/04/22 00:16	EPA 3050B	1,6010D	BV
Mercury, Total	0.074	J	mg/kg	0.089	0.058	1	02/22/22 16:20	03/02/22 14:09	EPA 7471B	1,7471B	AC
Nickel, Total	7.08		mg/kg	1.23	0.119	1	02/22/22 16:02	03/04/22 00:16	EPA 3050B	1,6010D	BV
Selenium, Total	0.437	J	mg/kg	0.982	0.127	1	02/22/22 16:02	03/04/22 00:16	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.491	0.139	1	02/22/22 16:02	03/04/22 00:16	EPA 3050B	1,6010D	BV
Zinc, Total	43.4		mg/kg	2.46	0.144	1	02/22/22 16:02	03/04/22 00:16	EPA 3050B	1,6010D	BV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	6.2		mg/kg	1.0	1.0	1		03/04/22 00:16	NA	107,-	

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-02 Date Collected: 02/16/22 09:00

Client ID: COMP 2 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.38		mg/kg	0.508	0.106	1	02/22/22 16:02	03/04/22 00:11	EPA 3050B	1,6010D	BV
Barium, Total	30.0		mg/kg	0.508	0.088	1	02/22/22 16:02	03/04/22 00:11	EPA 3050B	1,6010D	BV
Beryllium, Total	0.213	J	mg/kg	0.254	0.017	1	02/22/22 16:02	03/04/22 00:11	EPA 3050B	1,6010D	BV
Cadmium, Total	0.493	J	mg/kg	0.508	0.050	1	02/22/22 16:02	03/04/22 00:11	EPA 3050B	1,6010D	BV
Chromium, Total	5.71		mg/kg	0.508	0.049	1	02/22/22 16:02	03/04/22 00:11	EPA 3050B	1,6010D	BV
Copper, Total	12.6		mg/kg	0.508	0.131	1	02/22/22 16:02	03/04/22 00:11	EPA 3050B	1,6010D	BV
Lead, Total	40.1		mg/kg	2.54	0.136	1	02/22/22 16:02	03/04/22 00:11	EPA 3050B	1,6010D	BV
Manganese, Total	118		mg/kg	0.508	0.081	1	02/22/22 16:02	03/04/22 00:11	EPA 3050B	1,6010D	BV
Mercury, Total	0.091	J	mg/kg	0.100	0.065	1	02/22/22 16:20	03/02/22 15:02	EPA 7471B	1,7471B	AC
Nickel, Total	7.08		mg/kg	1.27	0.123	1	02/22/22 16:02	03/04/22 00:11	EPA 3050B	1,6010D	BV
Selenium, Total	0.315	J	mg/kg	1.02	0.131	1	02/22/22 16:02	03/04/22 00:11	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.508	0.144	1	02/22/22 16:02	03/04/22 00:11	EPA 3050B	1,6010D	BV
Zinc, Total	54.3		mg/kg	2.54	0.149	1	02/22/22 16:02	03/04/22 00:11	EPA 3050B	1,6010D	BV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.7		mg/kg	1.1	1.1	1		03/04/22 00:11	NA	107,-	

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-03 Date Collected: 02/16/22 09:10

Client ID: COMP 3 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.00		mg/kg	0.521	0.108	1	02/22/22 16:02	03/04/22 00:49	EPA 3050B	1,6010D	BV
Barium, Total	34.8		mg/kg	0.521	0.091	1	02/22/22 16:02	03/04/22 00:49	EPA 3050B	1,6010D	BV
Beryllium, Total	0.260		mg/kg	0.260	0.017	1	02/22/22 16:02	03/04/22 00:49	EPA 3050B	1,6010D	BV
Cadmium, Total	0.521		mg/kg	0.521	0.051	1	02/22/22 16:02	03/04/22 00:49	EPA 3050B	1,6010D	BV
Chromium, Total	7.34		mg/kg	0.521	0.050	1	02/22/22 16:02	03/04/22 00:49	EPA 3050B	1,6010D	BV
Copper, Total	14.7		mg/kg	0.521	0.134	1	02/22/22 16:02	03/04/22 00:49	EPA 3050B	1,6010D	BV
Lead, Total	24.8		mg/kg	2.60	0.140	1	02/22/22 16:02	03/04/22 00:49	EPA 3050B	1,6010D	BV
Manganese, Total	209		mg/kg	0.521	0.083	1	02/22/22 16:02	03/04/22 00:49	EPA 3050B	1,6010D	BV
Mercury, Total	0.082	J	mg/kg	0.091	0.059	1	02/22/22 16:20	03/02/22 15:05	EPA 7471B	1,7471B	AC
Nickel, Total	9.79		mg/kg	1.30	0.126	1	02/22/22 16:02	03/04/22 00:49	EPA 3050B	1,6010D	BV
Selenium, Total	0.234	J	mg/kg	1.04	0.134	1	02/22/22 16:02	03/04/22 00:49	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.521	0.147	1	02/22/22 16:02	03/04/22 00:49	EPA 3050B	1,6010D	BV
Zinc, Total	59.4		mg/kg	2.60	0.153	1	02/22/22 16:02	03/04/22 00:49	EPA 3050B	1,6010D	BV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.3		mg/kg	1.1	1.1	1		03/04/22 00:49	NA	107,-	

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-04 Date Collected: 02/16/22 09:20

Client ID: COMP 4 Date Received: 02/16/22

Sample Location: BROADWAY & TWO RED RD Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.90		mg/kg	0.528	0.110	1	02/22/22 16:02	03/04/22 00:53	EPA 3050B	1,6010D	BV
Barium, Total	57.2		mg/kg	0.528	0.092	1	02/22/22 16:02	03/04/22 00:53	EPA 3050B	1,6010D	BV
Beryllium, Total	0.301		mg/kg	0.264	0.017	1	02/22/22 16:02	03/04/22 00:53	EPA 3050B	1,6010D	BV
Cadmium, Total	0.771		mg/kg	0.528	0.052	1	02/22/22 16:02	03/04/22 00:53	EPA 3050B	1,6010D	BV
Chromium, Total	8.24		mg/kg	0.528	0.051	1	02/22/22 16:02	03/04/22 00:53	EPA 3050B	1,6010D	BV
Copper, Total	24.7		mg/kg	0.528	0.136	1	02/22/22 16:02	03/04/22 00:53	EPA 3050B	1,6010D	BV
Lead, Total	58.3		mg/kg	2.64	0.142	1	02/22/22 16:02	03/04/22 00:53	EPA 3050B	1,6010D	BV
Manganese, Total	554		mg/kg	0.528	0.084	1	02/22/22 16:02	03/04/22 00:53	EPA 3050B	1,6010D	BV
Mercury, Total	0.104		mg/kg	0.104	0.068	1	02/22/22 16:20	03/02/22 15:09	EPA 7471B	1,7471B	AC
Nickel, Total	10.8		mg/kg	1.32	0.128	1	02/22/22 16:02	03/04/22 00:53	EPA 3050B	1,6010D	BV
Selenium, Total	0.206	J	mg/kg	1.06	0.136	1	02/22/22 16:02	03/04/22 00:53	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.528	0.149	1	02/22/22 16:02	03/04/22 00:53	EPA 3050B	1,6010D	BV
Zinc, Total	77.3		mg/kg	2.64	0.155	1	02/22/22 16:02	03/04/22 00:53	EPA 3050B	1,6010D	BV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.2		mg/kg	1.1	1.1	1		03/04/22 00:53	NA	107,-	

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1607432-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	02/22/22 16:02	03/03/22 22:55	1,6010D	BV
Barium, Total	ND		mg/kg	0.400	0.070	1	02/22/22 16:02	03/03/22 22:55	1,6010D	BV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	02/22/22 16:02	03/03/22 22:55	1,6010D	BV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	02/22/22 16:02	03/03/22 22:55	1,6010D	BV
Chromium, Total	ND		mg/kg	0.400	0.038	1	02/22/22 16:02	03/03/22 22:55	1,6010D	BV
Copper, Total	ND		mg/kg	0.400	0.103	1	02/22/22 16:02	03/03/22 22:55	1,6010D	BV
Lead, Total	ND		mg/kg	2.00	0.107	1	02/22/22 16:02	03/03/22 22:55	1,6010D	BV
Manganese, Total	ND		mg/kg	0.400	0.064	1	02/22/22 16:02	03/03/22 22:55	1,6010D	BV
Nickel, Total	ND		mg/kg	1.00	0.097	1	02/22/22 16:02	03/03/22 22:55	1,6010D	BV
Selenium, Total	ND		mg/kg	0.800	0.103	1	02/22/22 16:02	03/03/22 22:55	1,6010D	BV
Silver, Total	ND		mg/kg	0.400	0.113	1	02/22/22 16:02	03/03/22 22:55	1,6010D	BV
Zinc, Total	ND		mg/kg	2.00	0.117	1	02/22/22 16:02	03/03/22 22:55	1,6010D	BV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1607434-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	02/22/22 16:20	03/02/22 14:03	1,7471B	AC

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL

Project Number: T0006-022-002

Lab Number: L2208221

Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1607432-2 SRM Lot Number: D113-540								
Arsenic, Total	99		-		70-130	-		
Barium, Total	94		-		75-125	-		
Beryllium, Total	101		-		75-125	-		
Cadmium, Total	99		-		75-125	-		
Chromium, Total	98		-		70-130	-		
Copper, Total	96		-		75-125	-		
Lead, Total	97		-		72-128	-		
Manganese, Total	97		-		77-123	-		
Nickel, Total	99		-		70-130	-		
Selenium, Total	99		-		66-134	-		
Silver, Total	99		-		70-131	-		
Zinc, Total	97		-		70-130	-		
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1607434-2 SRM Lot Number: D113-540								
Mercury, Total	103		-		60-140	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1607432-3 QC Sample: L2208221-01 Client ID: COMP 1												
Arsenic, Total	4.65	11.8	14.8	86		-	-		75-125	-		20
Barium, Total	30.2	196	206	89		-	-		75-125	-		20
Beryllium, Total	0.246	4.91	4.59	93		-	-		75-125	-		20
Cadmium, Total	0.491	5.21	4.70	90		-	-		75-125	-		20
Chromium, Total	6.17	19.6	22.1	81		-	-		75-125	-		20
Copper, Total	8.13	24.6	29.0	85		-	-		75-125	-		20
Lead, Total	28.6	52.1	67.7	75		-	-		75-125	-		20
Manganese, Total	95.3	49.1	152	115		-	-		75-125	-		20
Nickel, Total	7.08	49.1	45.8	79		-	-		75-125	-		20
Selenium, Total	0.437J	11.8	10.4	88		-	-		75-125	-		20
Silver, Total	ND	29.5	25.7	87		-	-		75-125	-		20
Zinc, Total	43.4	49.1	86.2	87		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1607434-3 QC Sample: L2208221-01 Client ID: COMP 1												
Mercury, Total	0.074J	0.17	0.217	**127**	Q	-	-		80-120	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1607432-4 QC Sample: L2208221-01 Client ID: COMP 1						
Arsenic, Total	4.65	4.63	mg/kg	0		20
Barium, Total	30.2	29.6	mg/kg	2		20
Beryllium, Total	0.246	0.238J	mg/kg	NC		20
Cadmium, Total	0.491	0.505	mg/kg	3		20
Chromium, Total	6.17	6.08	mg/kg	1		20
Copper, Total	8.13	8.48	mg/kg	4		20
Lead, Total	28.6	30.5	mg/kg	6		20
Manganese, Total	95.3	104	mg/kg	9		20
Nickel, Total	7.08	6.98	mg/kg	1		20
Selenium, Total	0.437J	0.447J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Zinc, Total	43.4	44.3	mg/kg	2		20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1607434-4 QC Sample: L2208221-01 Client ID: COMP 1						
Mercury, Total	0.074J	0.076J	mg/kg	NC		20

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2208221
Report Date: 03/04/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1607432-6 QC Sample: L2208221-01 Client ID: COMP 1						
Barium, Total	30.2	34.8	mg/kg	15		20
Manganese, Total	95.3	112	mg/kg	18		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-01
Client ID: COMP 1
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:50
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.7		%	0.100	NA	1	-	02/17/22 12:04	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	02/18/22 04:10	02/18/22 09:34	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.03	0.206	1	02/25/22 17:53	03/01/22 10:23	1,7196A	PB

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002
Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-02
Client ID: COMP 2
Sample Location: BROADWAY & TWO RED RD
Sample Depth:
Matrix: Soil

Date Collected: 02/16/22 09:00
Date Received: 02/16/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.4		%	0.100	NA	1	-	02/17/22 12:04	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	02/18/22 04:10	02/18/22 09:35	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.08	0.215	1	02/25/22 17:53	03/01/22 10:23	1,7196A	PB

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002
Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-03
Client ID: COMP 3
Sample Location: BROADWAY & TWO RED RD
Sample Depth:
Matrix: Soil

Date Collected: 02/16/22 09:10
Date Received: 02/16/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.5		%	0.100	NA	1	-	02/17/22 12:04	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	02/18/22 04:10	02/18/22 09:46	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.09	0.218	1	02/25/22 17:53	03/01/22 10:23	1,7196A	PB

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-04
Client ID: COMP 4
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 09:20
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.6		%	0.100	NA	1	-	02/17/22 12:04	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.4	0.30	1	02/18/22 04:10	02/18/22 09:47	1,9010C/9012B	CS
Chromium, Hexavalent	ND		mg/kg	1.12	0.223	1	02/25/22 17:53	03/01/22 10:23	1,7196A	PB

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-05
Client ID: GRAB 1
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 07:50
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.2		%	0.100	NA	1	-	02/17/22 12:04	121,2540G	RI

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-06
Client ID: GRAB 2
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 07:55
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.2		%	0.100	NA	1	-	02/17/22 12:04	121,2540G	RI

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002
Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-07
Client ID: GRAB 3
Sample Location: BROADWAY & TWO RED RD
Sample Depth:
Matrix: Soil

Date Collected: 02/16/22 08:00
Date Received: 02/16/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.1		%	0.100	NA	1	-	02/17/22 12:04	121,2540G	RI

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002
Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-08
Client ID: GRAB 4
Sample Location: BROADWAY & TWO RED RD
Sample Depth:
Matrix: Soil

Date Collected: 02/16/22 08:05
Date Received: 02/16/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.6		%	0.100	NA	1	-	02/17/22 12:04	121,2540G	RI

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002
Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-09
Client ID: GRAB 5
Sample Location: BROADWAY & TWO RED RD
Sample Depth:
Matrix: Soil

Date Collected: 02/16/22 08:10
Date Received: 02/16/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.3		%	0.100	NA	1	-	02/17/22 12:04	121,2540G	RI

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-10
Client ID: GRAB 6
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:15
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	70.4		%	0.100	NA	1	-	02/17/22 12:04	121,2540G	RI

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-11
Client ID: GRAB 7
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:20
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.9		%	0.100	NA	1	-	02/17/22 12:04	121,2540G	RI

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002
Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-12
Client ID: GRAB 8
Sample Location: BROADWAY & TWO RED RD
Sample Depth:
Matrix: Soil

Date Collected: 02/16/22 08:25
Date Received: 02/16/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.6		%	0.100	NA	1	-	02/17/22 12:04	121,2540G	RI

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002
Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-13
Client ID: GRAB 9
Sample Location: BROADWAY & TWO RED RD
Sample Depth:
Matrix: Soil

Date Collected: 02/16/22 08:30
Date Received: 02/16/22
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	74.2		%	0.100	NA	1	-	02/17/22 12:04	121,2540G	RI

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-14
Client ID: GRAB 10
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:35
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.6		%	0.100	NA	1	-	02/17/22 12:04	121,2540G	RI

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

SAMPLE RESULTS

Lab ID: L2208221-15
Client ID: GRAB 11
Sample Location: BROADWAY & TWO RED RD

Date Collected: 02/16/22 08:40
Date Received: 02/16/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.2		%	0.100	NA	1	-	02/17/22 12:04	121,2540G	RI

Project Name: 1168 BROADWAY TOPSOIL **Lab Number:** L2208221

Project Number: T0006-022-002 **Report Date:** 03/04/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1606371-1										
Cyanide, Total	ND		mg/kg	0.87	0.18	1	02/18/22 04:10	02/18/22 09:08	1,9010C/9012B	CS
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1609028-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	02/25/22 17:53	03/01/22 10:23	1,7196A	PB

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL

Project Number: T0006-022-002

Lab Number: L2208221

Report Date: 03/04/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1606371-2 WG1606371-3								
Cyanide, Total	96		87		80-120	3		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1609028-2								
Chromium, Hexavalent	85		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1606371-4 WG1606371-5 QC Sample: L2208346-02 Client ID: MS Sample												
Cyanide, Total	ND	11	11	100		11	100		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1609028-4 QC Sample: L2208221-02 Client ID: COMP 2												
Chromium, Hexavalent	ND	1190	681	**57**	Q	-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-15 QC Batch ID: WG1606026-1 QC Sample: L2208221-01 Client ID: COMP 1						
Solids, Total	77.7	76.4	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1609028-6 QC Sample: L2208221-02 Client ID: COMP 2						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2208221-01A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2208221-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),MN-TI(180),HG-T(28),CD-TI(180)
L2208221-01C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2208221-01D	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2208221-01E	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2208221-01F	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2208221-02A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2208221-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),MN-TI(180),HG-T(28),CD-TI(180)
L2208221-02C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2208221-02D	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2208221-02E	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2208221-02F	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2208221-03A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2208221-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),HG-T(28),MN-TI(180),CD-TI(180)

*Values in parentheses indicate holding time in days

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2208221-03C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2208221-03D	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2208221-03E	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2208221-03F	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2208221-04A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2208221-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),MN-TI(180),HG-T(28),CD-TI(180)
L2208221-04C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2208221-04D	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2208221-04E	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2208221-04F	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		A2-NY-537-ISOTOPE(14)
L2208221-05A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2208221-05B	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-05X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-05Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-05Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-06A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2208221-06B	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-06X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-06Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-06Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-07A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2208221-07B	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2208221-07X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-07Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-07Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-08A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2208221-08B	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-08X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-08Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-08Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-09A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2208221-09B	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-09X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-09Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-09Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-10A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2208221-10B	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-10X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-10Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-10Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-11A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2208221-11B	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-11X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-11Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-11Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-12A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2208221-12B	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-12X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-12Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-12Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002

Lab Number: L2208221
Report Date: 03/04/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2208221-13A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2208221-13B	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-13X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-13Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-13Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-14A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2208221-14B	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-14X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-14Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-14Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-15A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2208221-15B	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-15X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-R2(14)
L2208221-15Y	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)
L2208221-15Z	Vial Water preserved split	A	NA		3.5	Y	Absent	**22-FEB-22 07:30**	NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 1168 BROADWAY TOPSOIL
Project Number: T0006-022-002
Lab Number: L2208221
Report Date: 03/04/22

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	1168 BROADWAY TOPSOIL	**Lab Number:**	L2208221
Project Number:	T0006-022-002	**Report Date:**	03/04/22

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1168 BROADWAY TOPSOIL	**Lab Number:**	L2208221
Project Number:	T0006-022-002	**Report Date:**	03/04/22

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1168 BROADWAY TOPSOIL	**Lab Number:**	L2208221
Project Number:	T0006-022-002	**Report Date:**	03/04/22

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	1168 BROADWAY TOPSOIL	**Lab Number:**	L2208221
Project Number:	T0006-022-002	**Report Date:**	03/04/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 2/17/22

ALPHA Job #: L2208221

Client Information

Client: Benchmark Turnkey
Address: 2558 Hamburg Turnpike
Buffalo NY 14218
Phone: 716 856 0635
Fax: 716 856 0583
Email: EWarren@BM-TK.com

Project Information

Project Name: 116&8 Broadway Topsoil
Project Location: Broadway & Two Rod Rd
Project # T0000-022-009
(Use Project name as Project #)
Project Manager: Rick Dubisz / Eric Warren
ALPHAQuote #:

Turn-Around Time

Standard
Rush (only if pre approved)
Due Date:
# of Days:

Deliverables

ASP-A
ASP-B
EQuIS (1 File)
EQuIS (4 File)
Other

Regulatory Requirement

NY TOGS
NY Part 375
AWQ Standards
NY CP-51
NY Restricted Use
Other
NY Unrestricted Use
NYC Sewer Discharge

Billing Information

Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
NJ
NY
Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL

ANALYSIS

Sample Filtration
Done
Lab to do
Preservation
Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SM 2540	EPA 8270D	NY PFAS via LCMSMS Isotope Dilution	EPA 8081 B	EPA 8082A	NY Part 375 Total metals list	TS	NYTCL-8260	Sample Specific Comments
L2208221-01	Comp 1	2/16/22	8:50 A	Soil	MJ	X	X	X	X	X	X			
-02	Comp 2		9:00 A			X	X	X	X	X	X			
-03	Comp 3		9:10 A			X	X	X	X	X	X			
-04	Comp 4		9:20 A			X	X	X	X	X	X			
-05	Grab 1		7:50 A									X	X	
-06	Grab 2		7:55 A									X	X	
-07	Grab 3		8:00 A									X	X	
-08	Grab 4		8:05 A									X	X	
-09	Grab 5		8:10 A									X	X	
-10	Grab 6		8:15 A									X	X	

Container Type
Preservative

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	2/16/22 10:00 A	JM AL AAL	2/16/22 14:05
JM AL AAL	2/16/22 15:50		2/17/22 00:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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Service Centers
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Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 2/17/22

ALPHA Job #: L2208221

Client Information

Client: Benchmark Turnkey
Address: 2558 Hamburg Turnpike
Buffalo, NY 14218
Phone: 716 856 0635
Fax: 716 856 0583
Email: EWarren@BM-TK.com

Project Information

Project Name: 11688 Broadway
Project Location: Broadway & Two Rod Rd
Project # T0006-022-002
(Use Project name as Project #) ☐
Project Manager: Rick Dubisz / Eric Warren
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS	NYTCL-8260							Total Bottle
08721-11	Grab 7	2/16/22	8:20A	Soil	MJ	X	X							
-12	Grab 8	↓	8:25A	↓	↓	X	X							
-13	Grab 9	↓	8:30A	↓	↓	X	X							
-14	Grab 10	↓	8:35A	↓	↓	X	X							
-15	Grab 11	↓	8:40A	↓	↓	X	X							

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	2/16/22 10:01A	AAL	2/16/22 14:05
AAL	2/16/22 15:50		2/17/22 0070

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

APPENDIX B

Work Completed on 07.27.22 – 07.29.22

SITE PICTURE
CAMP DATA
WASTE MANIFEST

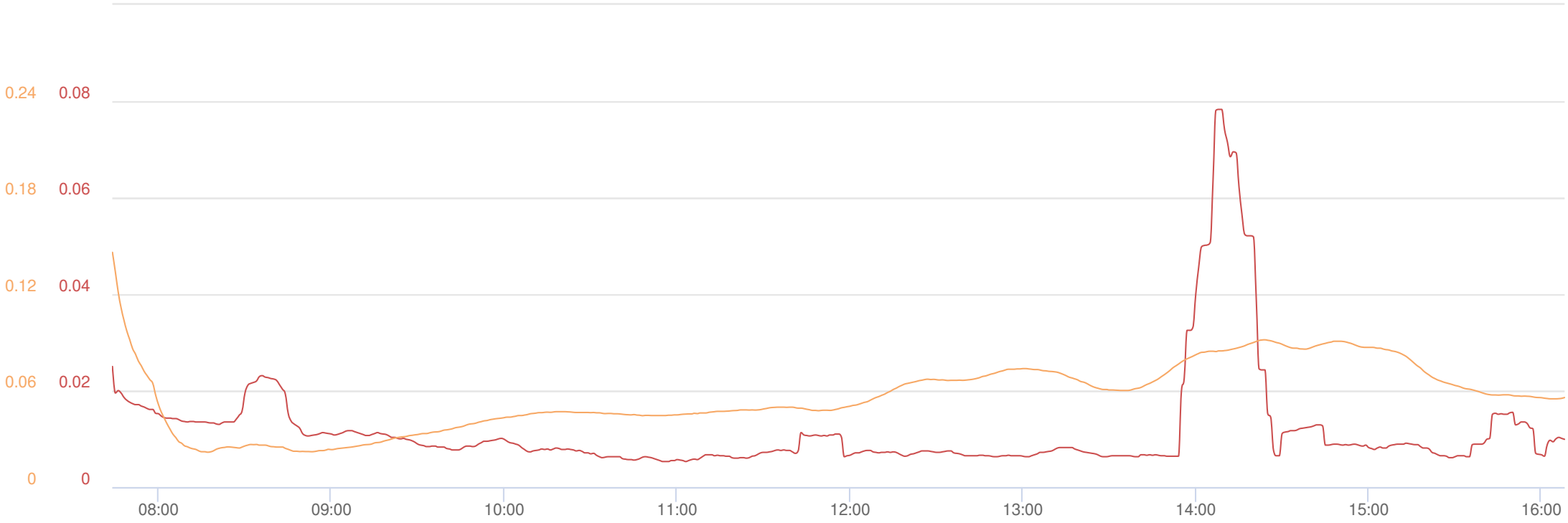
APPENDIX B

SITE PICTURE

APPENDIX B

CAMP DATA

Wed, 27th of Jul 2022, 0:00:00 – 23:59:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

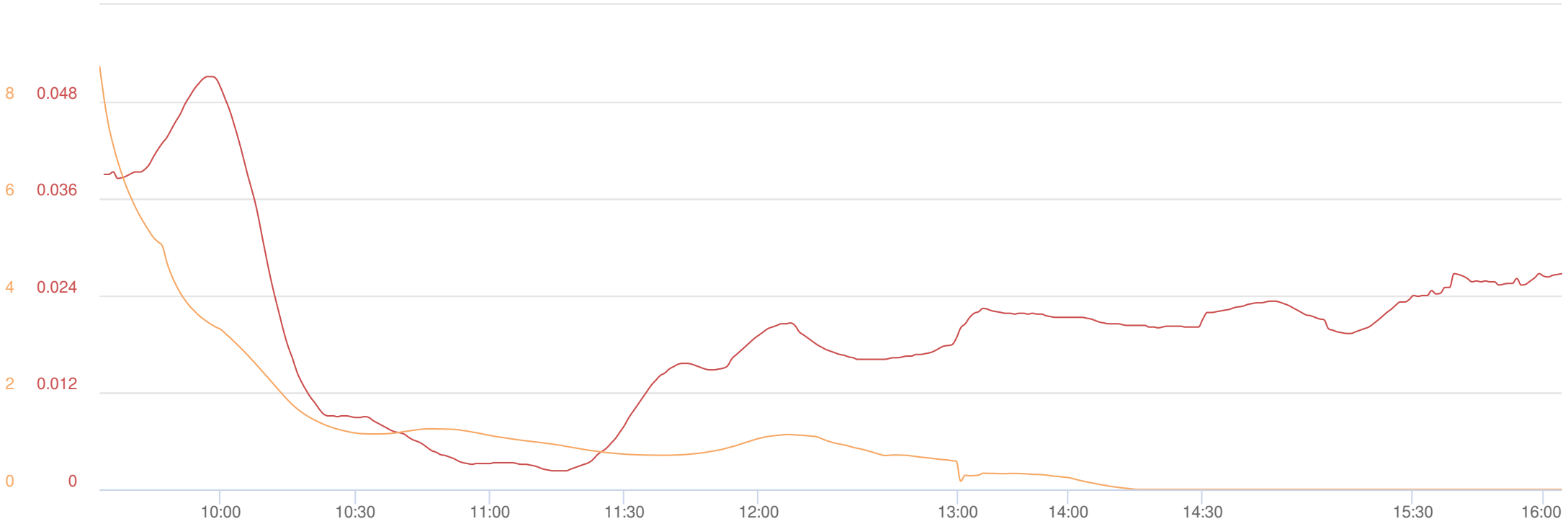
MIN	AVG	MAX
0.0053	0.0119	0.0783

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0.0217	0.0561	0.146

Name	CAMP Station #3
S/N	0B466411
Description	CAMP Station #3
Location	2424 Hamburg Turnpike, Buffalo, NY 14218, USA

Thu, 28th of Jul 2022, 0:00:00 – 23:59:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0023	0.0195	0.0511

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	1	8.721

Name	CAMP Station #3
S/N	0B466411
Description	CAMP Station #3
Location	2424 Hamburg Turnpike, Buffalo, NY 14218, USA

Fri, 29th of Jul 2022, 0:00:00 – 23:59:00
(GMT-05:00) Eastern Time (US & Canada)

Mass Conc. Total mg/m³ AVG 15m
mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
0.0067	0.0121	0.0223

VOC ppm AVG 15m ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.02	0.349

Name	CAMP Station #3
S/N	0B466411
Description	CAMP Station #3
Location	2424 Hamburg Turnpike, Buffalo, NY 14218, USA

APPENDIX B

WASTE MANIFEST

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

GENERATOR

3. Generator's Mailing Address:
Uniland Construction Corporation
ATTN: Jeff Benderson
100 Corporate Parkway, Suite 500
Amherst, NY 14226

4. Generator's Phone 716-242-9255

Generator's Site Address (If different than mailing):
8 DONA STREET
LACKAWANNA, NY 14218

A. Manifest Number: **WMNA** 11554119

B. State Generator's ID

5. Transporter 1 Company Name
Zdudz Construction

6. US EPA ID Number

C. State Transporter's ID 9A 499

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Waste Management of NY, LLC –
Chaffee Landfill
10860 Olean Road
Chaffee, NY 14030

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 716-492-3420

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON HAZARDOUS SOIL WM Profile # 125173NY	1	CM	est	20 ton	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information

Purchase Order #

EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Cheryl Chapman	Cheryl Chapman	8	22	22

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Charles Ellis	Charles Ellis	8	22	22

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
M. Baker	M. Baker	8	22	22

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NEW YORK STATE OF OPPORTUNITY. Department of Transportation

KATHY HOCHUL
Governor

MARIE THERESE DOMINGUEZ
Commissioner

FRANK P. CIRILLO, SR/WA
Regional Director

June 5, 2023

Ms. Megan Kuczka
New York State Dept. of Environmental Conservation
Division of Environmental Remediation
700 Delaware Avenue
Buffalo, NY 14209

RE: D264672, CPIN 5812.74.321
ERIE COUNTY SHORELINE TRAIL BETHLEHEM STEEL PHASE I
NYSDEC BCP NO. C915197L
ROUTE 5 (HAMBURG TURNPIKE) SIGNAL INSTALLATION
LACKAWANNA, NY
SITE CAP RESTORATION REVISED SUMMARY

Dear Ms. Kuczka,

The New York State Department of Transportation's project D264672, CPIN 5812.74.321, Signal Replacements on NY Rt. 5 in Hamburg, Lackawanna & Amherst was awarded to Concrete Applied Technical Corporation, d/b/a CATCO in January 2022. The project involved excavations for signal pole foundations and installation of new signal poles at various locations in Erie County. On/about October 28, 2022 excavation to prepare an area for a signal pole foundation was occurring along Route 5 in Lackawanna. This excavation was along the edge of the highway in the steep bank between the road and the Erie County Shoreline Trail across from Odell Street.

The New York State Department of Environmental Conservation (NYSDEC) noticed this excavation and notified Erie County Department of Environment and Planning (ECDEP). Subsequent communications revealed that although this excavation was on the edge of the road and within NYSDOT Right-of-Way it was considered to be within the footprint of the adjacent NYSDEC Brownfield Cleanup Program (BCP) Site Number C915197L. ECDEP has oversight of this site. The back edge of the excavation exposed the orange construction fencing demarcation layer of the site cap. Some of the excavated soil was sidecast and incorporated into the existing slope. The remaining soil was stockpiled with other suspect soil from signal pole excavations along Route 5 for sampling and disposal as a contaminated waste. Please see the attached non-hazardous waste manifest.

Subsequently, NYSDOT began coordinating with NYSDEC and ECDEP to comply with the Site Management Plan (SMP) that is in place for this site. According to the SMP soil brought on site to be used to backfill the excavation had to meet the criteria in Table B-1 in accordance with Appendix 5 of DER-10. NYSDOT identified C.J. Krantz located in Clarence Center as a potential source of topsoil that would meet the DER-10 criteria. NYSDOT requested our Hazardous Waste Term Agreement Consultant AECOM to collect two soil samples, one a grab sample to be analyzed for TCL plus CP-51 VOC's and the other a composite sample collected for numerous analyses. Please see the attached "Soil Sampling and Backfill Recommendations" report dated January 2023 for in depth detail regarding the sampling protocols and the laboratory analysis.

Analytical results and a "Request to Import/Reuse Fill or Soil" Form were submitted to NYSDEC. On February 27, 2023 NYSDOT received an approval letter to import this topsoil to the Erie County Shoreline Trail for use as backfill on the excavated slope. Due to winter shutdown for the project, completion of the repair and backfill procedures were delayed until this spring. Upon obtaining all necessary materials and scheduling proper work zone traffic controls, the repair work was completed on April 24, 2023. The repairs included placing orange construction fencing as the base, vegetation mesh as the middle and a minimum of one foot of the approved topsoil as the top layer. Seed and mulch were placed on the topsoil layer. See attached photo of the vegetation mesh layer and a copy of the weigh ticket from the approved topsoil used at the site.

NYSDOT appreciates the guidance and cooperation from NYSDEC and ECDEP during this repair. Please contact Janine Shepherd of my staff with any questions.

Sincerely,

Daniel W. Paskie, P.E.
Regional Construction Engineer

Cc: John Hood, ECDEP, w/enclosures
Zackary Scherer, Engineer in Charge D264672

DWP/JHS/jhs

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

15

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number 1347-01	c. Page 1 of
d. Generator's Name and Location: NYSDOT 3291 LAKE SHIRE DR. BUFFALO, NY., 14219 f. Phone:716 800-9174	e. Generator's Mailing Address: 100 SNECA STREET BUFFALO, NY., 14203 g. Phone:	
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:	

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
4215 23 1347	12/21/23	Dirt from foundation	1	T	12	Yds
PO# 21-110-19						

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Ryan Danna	Ryan Danna	2/13/23

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
Catco
1266 TOWNE LINE RD.
ALDEN, NY 14004
b. Phone: 716 800-9174

#15

c. Driver Name (Print)	d. Signature	e. Date
X Brian Scheidt	X Brian Scheidt	X 2-13-23

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Allied Waste Niagara Falls Landfill 5600 Niagara Falls Blvd, Niagara Falls NY 14304 b. Phone: 716-282-6381	c. US EPA Number	d. Discrepancy Indication Space:

I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
X Scott	Pam Scott	2/13/23

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: b. Phone:	c. Responsible Agency Name and Address: d. Phone:

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE

NIAGARA FALLS LANDFILL 716-282-6381
5600 Niagara Falls Blvd Niagara Falls, NY 14304

CUSTOMER

202689
CATCO
1266 TOWNLINE RD
ALDEN, NY 14004
Contract:4215231347 PO:21-110-19
Generator:NYSDOT

SITE	TICKET #	CELL
5B	1232938	

WEIGHMASTER: Pam S.

DATE/TIME IN	DATE/TIME OUT
2/13/23 8:46 am	2/13/23 9:13 am

VEHICLE	CONTAINER
CATCO15	

REFERENCE

BILL OF LADING: N/A

SCALE IN GROSS WEIGHT 51,140 NET TONS 10.67 INBOUND
SCALE OUT TARE WEIGHT 29,800 NET WEIGHT 21,340 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
12.00	YD	Tracking QTY				
10.67	tn	SW-CONT SOIL Origin:NY-ERIE 100%				
1.00		ENVIRONMENTAL FEE 1				

Have a nice day. Thank you for your business!

NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (04/19)

SIGNATURE

SITE NIAGARA FALLS LANDFILL 716-282-6381
5600 Niagara Falls Blvd -Niagara Falls, NY 14304

CUSTOMER 202689
CATCO
1266 TOWNLINE RD
ALDEN, NY 14004
Contract:4215231347 PO:21-110-19
Generator:NYSDOT

SITE 5B TICKET # 1232938 CELL
WEIGHMASTER Pam S.
DATE/TIME IN 2/13/23 8:46 am DATE/TIME OUT 2/13/23 9:13 am
VEHICLE CATCO15 CONTAINER
REFERENCE
BILL OF LADING N/A

SCALE IN GROSS WEIGHT 51,140 NET TONS 10.67 INBOUND
SCALE OUT TARE WEIGHT 29,800 NET WEIGHT 21,340 INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
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1.00		ENVIRONMENTAL FEE 1				

Have a nice day. Thank you for your business!

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TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (04/19)

APPENDIX 4

RECORD AND RETURN TO:
COUNTY OF ERIE
BOX NO. 107

PERMANENT EASEMENT AGREEMENT

THIS PERMANENT EASEMENT AGREEMENT (this ***"Agreement"***) is made as of this 16th day of June, 2022 (the ***"Effective Date"***) by and between the **COUNTY OF ERIE**, with offices at 95 Franklin Street, Buffalo, New York, , hereinafter referred to as the ***"County*** and/or the "Grantor", and **BLD VII**, LLC, now known as Renaissance 8, LLC, its successors and assigns with an address of University Corporate Centre, 100 Corporate Pkwy , Suite 500, Amherst, NY 14226-1295 (hereinafter referred to as the "Grantee" or "BLD VII," the definition of ***"BLD VII" or "Grantee"*** shall include BLD VII now known as Renaissance 8, LLC, and its successors and assigns, as well as its employees, agents, contractors, subcontractors, engineers and invitees) (the County and BLD VII are collectively referred to herein as the ***"Parties"*** and individually as a ***"Party"***).

RECITALS:

WHEREAS, the County is the owner of certain 6.96 acre parcel of real property situated in the City of Lackawanna, County of Erie and State of New York, which currently bears SBL #141.11-1-48.132 real property, and is more particularly described in deed recorded in the Erie County Clerk's Office in Liber 11353 of Deeds on Page 8397 , and serves the public as a bike path (the ***"Bike Path Property"***); and

WHEREAS, BLD VII is in the process of developing a certain 10.26 acre parcel on the property commonly, and hereinafter known "**8 Dona Street"** (which currently bears SBL # 141.11-1-6) acquired by BLD VII, by virtue of a Deed recorded at Liber 11388, page 7767 in the books of deeds maintained in the Clerk's Office of Erie County New York; and

WHEREAS, BLD VII seeks a permanent easement under a portion of the Bike Path Property for the purpose of establishing, installing, constructing, maintaining, repairing, removing, replacing, operating, inspecting (collectively, the "***Work***"), in, under, through and across the Bike Path Property, which will receive potential overflow from a storm water infiltration basin being developed at 8 Dona Street to manage storm water at 8 Dona Street in accordance with a municipally approved Storm Water Protection Plan (SWPP); and

WHEREAS, BLD VII has been made aware that the Bike Path Property has been improved in accordance with the New York State Brownfield Cleanup Program (the "BCP"), and its use and development is restricted by an Environmental Easement, and a certain Soils Management Plan (SMP) on file with New York State Department of Environment Region 9 under BCP parcel identification number I-12-BCP-915197L.

NOW THEREFORE, in consideration of the mutual promises contained herein and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereto agree as follows:

1. **Incorporation of Recitals**. The recitals set forth above are incorporated and restated herein as material terms of this Agreement; and

2. **Grant of Permanent Easement**. The County hereby grants to BLD VII a non-exclusive fifteen (15) foot wide permanent easement, centered on the proposed pipeline, over, under and across the portion of the Bike Path Property, at the location identified on the drawing attached hereto as ***Exhibit A*** and laying within the area described on the attached ***Exhibit B*** (collectively referred to herein as the ***"Easement Premises"***) (collectively referred to herein as the ***"Easement Premises"***) solely for the purpose of entering the Easement Premises: (a) to perform the Work; (b) to establish, install, construct, maintain, repair, remove, replace and operate a storm sewer and related appurtenances within the Easement Premises at BLD VII's sole cost and expense and with due care to connect to the existing public stormwater line in the Hamburg Turnpike, also known as State Route 5, right of way and (c) to have unimpaired ingress, egress and access to and from the Easement Area as is necessary and/or convenient to the exercise of the rights granted herein (the "***Easement***"); and

3. **Compliance with BCP and Soils Management Plan.** The Grantee shall strictly comply with all aspects of the SMP governing the site, and BLD VII further expressly acknowledges and agrees this Agreement is expressly subject to that certain Environmental Easement affecting that portion of the Easement Premises as more particularly described in said Environmental Easement as New York State Brownfield Cleanup Program Site No. I-12-BCP-915197L, held by the New York State Department of Environmental Conservation and recorded in the Erie County Clerk's Office on July 14, 2014 in Liber 11266 of Deeds at page 5436 and in Liber 11266 of Deeds at page 5455 (the "***Environmental Easement***"), and Grantor and Grantee hereby covenant and agree that the Easement Premises shall be utilized in accordance with the terms, conditions and requirements of said Environmental Easement.

The Parties further acknowledge, covenant, and agree that until such time as said Environmental Easement is extinguished in accordance with the requirements of New York State Environmental Conservation Law Article 71, Title 36, this Agreement and all subsequent instruments of conveyance related to the Easement Premises shall state in at least fifteen-point bold face type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law; and

4. **Method of Crossing Bike Path**. The Work that takes place under the existent asphalt bike path, on the Bike Path Property shall be pushed under the existing improvement so as not to damage the bike path; and

5. **Notification of Commencement of Work**. At lease thirty days (unless a shorter period agreed to by the County in writing) prior to the commencement of any work involving any disruption of soils at the site, BLD VII shall notify the Erie County Department of Environment and Planning, and the Department of Remediation of Region 9 of the New York State Department of Environmental Conservation; and

6. **Proof of Insurance Prior to Commencement of any Work**. At lease thirty days (unless a shorter period agreed to by the County in writing) prior to commencement of any work, on any occasion, at the Bike Path Property, BLD VII, and any of its contractor's or agents entering the site, shall provide proof of adequate insurance in amounts and form deemed adequate to the Erie County Attorney' Office; and

7. **Work Plans and Obtaining Applicable Permits and Approvals**. At lease thirty days (unless a shorter period agreed to by the County in writing) prior to the commencement of any work at the Site, BLD VII shall be responsible for providing to the County work plans for contemplated work, and proof of obtaining all required approvals from any applicable federal, state, or local authorities, and shall provide the County Department of Environment and Planning proof of obtaining a permit to discharge into the storm sewer underlaying New York State Route 5. The Work shall contain the date for completion of the work, and the plans for protecting any excavations with fencing, and the date for completion of site restoration. Work shall not proceed until plans are approved by County Parks Department; and

8. **Cost; Restoration**. BLD VII shall be responsible for one hundred percent (100%) of all costs and expenses associated with the Work and the performance of its obligations hereunder. Within 14 days of completion of the Work, or other entry into the Easement Premises, unless said time period is extended in writing by the County, BLD VII agrees, at BLD VII's sole cost and expense, and with due diligence, to promptly restore the Easement Premises, the Property and all improvements located on the Property to good condition and state of repair (and to at least as good of a condition which existed immediately prior to the exercise of any of the rights granted herein); and

9. **Certification of Compliance with BCP**; Within thirty (30) days of completion of any work activities authorized in whole or in part on the Bike Path Property the Grantee shall have a Qualified Environmental Professional (as that term is defined at 6 NYCRR 375-1.2) certify to the County that all work was performed, and the site was restored in accordance with the SMP for the Bike Path Property; and

10. **Ownership of the Improvements**. BLD VII hereby agrees and acknowledges that any improvements constructed by BLD VII (i) are the sole property of BLD VII; (ii) shall be BLD VII's sole responsibility to operate, maintain, repair, remove and replace; (iii) shall be under the BLD VII's exclusive control and supervision at all times; and (iv) shall be used by the BLD VII solely for the benefit of 8 Dona Street; and

11. **Indemnification**. BLD VII hereby assumes any and all risks associated with the Work. BLD VII shall indemnify, defend and hold the County harmless from and against any and all liabilities, losses, expenses (including reasonable attorneys' fees), causes of action, damages, claims, suits, judgments and actions to persons or property arising out of, or alleged to arise out of (i) the Work; (ii) the exercise of BLD VII's rights hereunder; or (iii) BLD VII's access or use of the Bike Path Property for the Easement; and

12. **Duration; Successors and Assigns**. This Agreement shall run with the land and shall bind and inure to the benefit of the Parties hereto and their respective successors and assigns; and

13. **Entire Agreement**. This Agreement and the exhibits attached hereto constitute the sole and complete agreement and understanding of the Parties hereto with respect to the rights granted herein and supersede all prior written or oral agreements and understandings with respect to the rights granted herein; and

14. **Severability**. In the event any provision of this Agreement is held to be invalid, illegal or unenforceable for any reason or in any respect, such invalidity, illegality or unenforceability will in no event affect, prejudice or disturb the validity of the remainder of this Agreement, which will be and remain in full force and effect, enforceable in accordance with its terms; and

15. **Governing Law**. This Agreement shall be governed by and construed in accordance with the laws of the State of New York, without regard to conflicts of law principles; and

16. **Modifications**. This Agreement shall not be modified or changed except in a writing in recordable form executed by the County, or future public entity who has assumed ownership of the Improvements described herein, and the then-current owner(s) of the Property burdened by the terms of this Agreement which are desired to be so modified or changed; and

17. **Notices**. Any notice, demand, request or other communication required or permitted under this Agreement shall be in writing and shall be deemed to have been properly given if delivered personally, or sent by United States registered or certified mail, return receipt requested, postage prepaid, or by a nationally recognized overnight courier service to the applicable Party at its respective address as set forth below.

If to the County to:
Erie County Department of Environment and Planning
95 Franklin Street, 10th Floor
Buffalo NY 14202
Attn: Commissioner

With a copy to:
Erie County Attorney
95 Franklin Street, Rm. 1634
Buffalo, NY 14202

If to BLD VII to:
University Corporate Centre
100 Corporate Pkwy | Suite 500
Amherst, NY 14226-1295
Attn: Michael J. Montante, President

With a copy to:
Uniland Development Company
100 Corporate Parkway, Suite 500
Amherst, NY 14226-1295
Attn: Counsel

Either Party hereto by written notice to the other may change the address or the persons to whom notices or copies thereof will be directed.

18. **Headings**. The headings of the paragraphs contained herein are intended for reference purposes only and shall not be used to interpret the agreements contained herein or the rights granted hereby.

19. **Exhibits**. All exhibits referred to herein and attached hereto shall be deemed part of this Agreement.

20. **Ratification**. The County confirms, ratifies and accepts all of the terms and conditions of this Agreement by its execution hereof.

21. **Counterparts**. This Agreement may be executed in multiple counterparts, each of which shall be deemed an original and all of which together shall constitute but one and the same instrument.

[The remainder of this page is intentionally left blank and signature pages follow.]

SIGNATURE PAGE TO
PERMANENT EASEMENT AGREEMENT

IN WITNESS WHEREOF, the Parties have executed and delivered this Agreement as of the Effective Date.

Erie County New York

BY: 6/10/22
NAME: Maria Whyte
TITLE: Deputy County Executive

STATE OF NEW YORK)
COUNTY OF ERIE) ss.:

On the 10th day of June in the year 2022 before me, the undersigned, a Notary Public in and for said State, personally appeared Maria Whyte, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

JOYCE L CWIKLINSKI
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01CW6304081
Qualified in Erie County
My Commission Expires MAY 19, 2026

NOTARY PUBLIC

SIGNATURE PAGE TO
PERMANENT EASEMENT AGREEMENT

BLD VII, LLC, now known as Renaissance 8, LLC

By: _____
Name: Michael J. Montante
Title: Authorized Person

State of New York)
County of Erie) ss.:

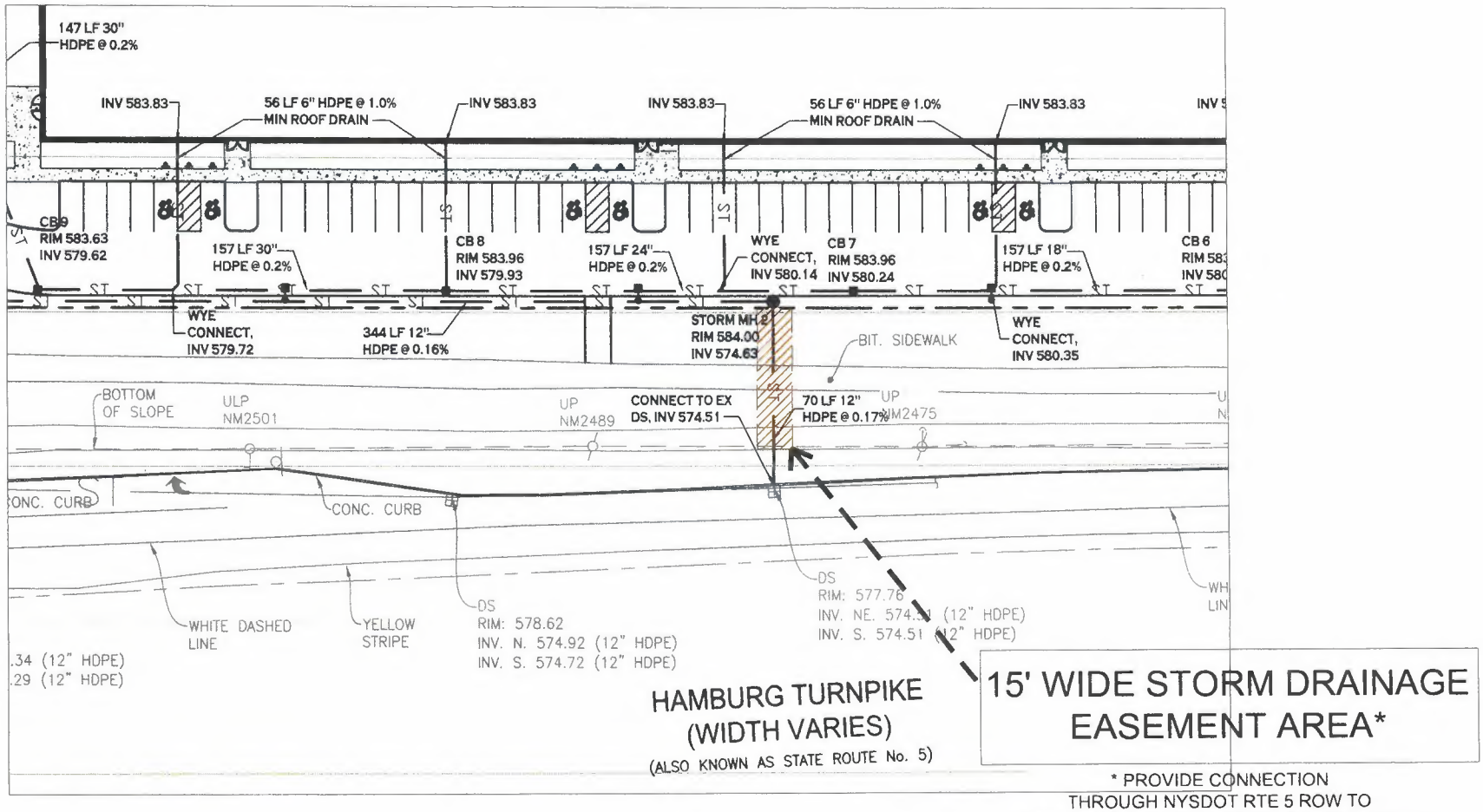
On the 31st day of May in the year 2022 before me, the undersigned, a Notary Public in and for said State, personally appeared Michael J. Montante, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public

SUSAN M. HASSINGER
Notary Public State of New York
Qualified in Erie County
My commission expires October 27, 2022

EXHIBIT A

DRAWING OF THE EASEMENT PREMISES



* PROVIDE CONNECTION THROUGH NYSDOT RTE 5 ROW TO EXIST. DRAINAGE STRUCTURE AS PREVIOUSLY PERMITTED

EXHIBIT B

DESCRIPTION OF THE PROPERTY OF THE COUNTY OF ERIE

Schedule B-1 to Declaration
Description of Premises

Parcel A:

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Lackawanna, County of Erie, State of New York being part of Lots 24 and 36, Township 10, Range 8 of the Buffalo Creek Reservation (so-called) and part of Lots 20, 21 and 24 of the Ogden Gore Tract, bounded and described as follows:

BEGINNING at a point on westerly boundary of the Hamburg Turnpike, New York State Route 5 at its intersection with the southerly line of Parcel II-8, also known as BCP Site No. C915198H as shown on a Map entitled Lands to be conveyed to Buffalo and Erie County Industrial Land Development Corporation, prepared by Wendel Engineers, P.C., Project No. 411110 date May 3, 2017;

THENCE through the lands of Tecumseh Redevelopment Inc., the following eight (8) courses and distances:

1) S-71°-00'-00"-W along the centerline of said easement and the south line of said Parcel II-8 a distance of 49.87 feet;
2) N-18°-27-18"-W, a distance of 331.83 feet;
3) N-18°-25-54"-W, a distance of 1013.10 feet;
4) N-20°-11-07"-W, a distance of 1036.08 feet;
5) N-17°-56-46"-W, a distance of 1751.28 feet;
6) N-18°-59-27"-W, a distance of 902.93 feet;
7) N-16°-10-22"-W, a distance of 184.31 feet to the northerly line of Parcel I-8, also known as BCP Site No. C915197H as shown on a Map entitled Lands to be conveyed to Buffalo and Erie County Industrial Land Development Corporation, prepared by Wendel Engineers, P.C., Project No. 411110 date May 3, 2017;
8) N-71°-00'-00"E a distance of 50.05 feet to a point on the first mentioned westerly boundary of the Hamburg Turnpike, New York State Route 5;

THENCE along said westerly boundary the following twenty three (23) courses and distances:

1) S-16°-04'-57"-E a distance of 186.30 feet;
2) S-18°-29'-00"-E a distance of 30.00 feet;
3) S-18°-28'-38"-E a distance of 355.00 feet;
4) S-71°-39'-20"-W a distance of 2.00 feet;
5) S-18°-28'-44"-E a distance of 223.00 feet;
6) S-22°-17'-43"-E a distance of 150.35 feet;
7) S-18°-28'-39"-E a distance of 512.00 feet;
8) S-16°-37'-53"-E a distance of 260.12 feet;
9) S-18°-22'-18"-E a distance of 793.00 feet;
10) S-71°-35'-29"-W a distance of 4.00 feet;
11) S-18°-01'-20"-E a distance of 132.00 feet;
12) N-71°-35'-29"-E a distance of 4.67 feet;
13) S-18°-17'-48"-E a distance of 38.00 feet;
14) S-71°-35'-29"-W a distance of 4.86 feet;

15) S-18°-01'-20"-E a distance of 160.00 feet;
16) N-71°-35'-29"-E a distance of 9.80 feet;
17) S-18°-24'-31"-E a distance of 159.00 feet;
18) S-71°-35'-29"-W a distance of 3.89 feet;
19) S-18°-22'-14"-E a distance of 180.00 feet;
20) S-20°-44'-09"-E a distance of 8.40 feet;
21) S-20°-45'-14"-E a distance of 129.67 feet;
22) S-22°-43'-04"-E a distance of 272.45 feet;
23) S-18°-25'-27"-E a distance of 1631.09 feet to the POINT OR PLACE OF BEGINNING.

Parcel B:

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Lackawanna, County of Erie, State of New York being part of Lot 36, Township 10, Range 8 of the Buffalo Creek Reservation, bounded and described as follows:

BEGINNING at a point on westerly boundary line of the Hamburg Turnpike, New York State Route 5 at its intersection with the southerly line of Parcel I-11, also known as BCP Site No. C915197K, and which line is also the northerly line of Parcel I-8, also known as BCP Site No. C915197H, as shown on a Map entitled Lands to be conveyed to Buffalo and Erie County Industrial Land Development Corporation, prepared by Wendel Engineers, P.C., Project No. 411110 date May 3, 2017;

THENCE, the following three (3) courses and distances:

1) S-71°-00'-00"-W along the south of said Parcel I-II a distance of 50.05 feet to a point;
2) N-16°-10-22"-W, a distance of 298.51 feet to a point;
3) N-19°-21-42"-W, a distance of 276.67 feet to a point on the southerly line of property conveyed to Gateway Trade Center, Inc. by deed recorded at Liber 10886 of Deeds at page 1115, which line is also the northerly line of Parcel I-11;

THENCE N 70° 59' 36" E along said north line of Parcel I-11, a distance of 49.95 feet to point of the first mentioned westerly boundary line of the Hamburg Turnpike, New York State Route 5;

THENCE along said westerly boundary line of the Hamburg Turnpike the following two (2) courses and distances:

1) S-19°-33'-00"-E a distance of 279.01 feet;
2) S-16°-04'-57"-E a distance of 296.01 feet to the POINT OR PLACE OF BEGINNING.

TP-584 (9/19)

Department of Taxation and Finance

Combined Real Estate Transfer Tax Return, Credit Line Mortgage Certificate, and Certification of Exemption from the Payment of Estimated Personal Income Tax

Recording office time stamp

See Form TP-584-I, Instructions for Form TP-584, *before completing this form. Print or type.*

Schedule A – Information relating to conveyance

Grantor/Transferor

☐ Individual
☐ Corporation
☐ Partnership
☐ Estate/Trust
☐ Single member LLC
☐ Multi-member LLC
☒ Other

Name *(if individual, last, first, middle initial)* (☐ *mark an X if more than one grantor)*: County of Erie

Social Security number (SSN):

Mailing address: 95 Franklin St, ~~Buffalo~~ NY 14202

SSN:

City: Buffalo | State: | ZIP code:

Employer Identification Number (EIN):

Single member's name if grantor is a single member LLC *(see instructions)*:

Single member EIN or SSN:

Grantee/Transferee

☐ Individual
☐ Corporation
☐ Partnership
☐ Estate/Trust
☒ Single member LLC
☐ Multi-member LLC
☐ Other

Name *(if individual, last, first, middle initial)* (☐ *mark an X if more than one grantee)*: Renaissance 8, LLC fka BLD VII, LLC

SSN:

Mailing address: 100 Corporate Parkway, Suite 500

SSN:

City: Amherst | State: NY | ZIP code: 14226

EIN: 06-1743757

Single member's name if grantee is a single member LLC *(see instructions)*: Uniland Ventures, LLC

Single member EIN or SSN: 84-3980012

Location and description of property conveyed

Tax map designation – Section, block & lot *(include dots and dashes)*	SWIS code (six digits)	Street address	City, town, or village	County
141.15-1-6	140900	8 Dona Street	Lackawanna	Erie

Type of property conveyed *(mark an X in applicable box)*

1 ☐ One- to three-family house
2 ☐ Residential cooperative
3 ☐ Residential condominium
4 ☐ Vacant land
5 ☒ Commercial/industrial
6 ☐ Apartment building
7 ☐ Office building
8 ☐ Four-family dwelling
9 ☐ Other _____

Date of conveyance: 06 (month) / (day) / 2022 (year)

Percentage of real property conveyed which is residential real property 0 % *(see instructions)*

Condition of conveyance *(mark an X in all that apply)*

a. ☐ Conveyance of fee interest
b. ☐ Acquisition of a controlling interest (state percentage acquired _____ %)
c. ☐ Transfer of a controlling interest (state percentage transferred _____ %)
d. ☐ Conveyance to cooperative housing corporation
e. ☐ Conveyance pursuant to or in lieu of foreclosure or enforcement of security interest *(attach Form TP-584.1, Schedule E)*
f. ☐ Conveyance which consists of a mere change of identity or form of ownership or organization *(attach Form TP-584.1, Schedule F)*
g. ☐ Conveyance for which credit for tax previously paid will be claimed *(attach Form TP-584.1, Schedule G)*
h. ☐ Conveyance of cooperative apartment(s)
i. ☐ Syndication
j. ☐ Conveyance of air rights or development rights
k. ☐ Contract assignment
l. ☐ Option assignment or surrender
m. ☐ Leasehold assignment or surrender
n. ☐ Leasehold grant
o. ☒ Conveyance of an easement
p. ☐ Conveyance for which exemption from transfer tax claimed *(complete Schedule B, Part 3)*
q. ☐ Conveyance of property partly within and partly outside the state
r. ☐ Conveyance pursuant to divorce or separation
s. ☐ Other *(describe)* _____

For recording officer's use	Amount received	Date received	Transaction number
	Schedule B, Part 1 $ _____ Schedule B, Part 2 $		

Schedule B – Real estate transfer tax return (Tax Law Article 31)

Part 1 – Computation of tax due

1	Enter amount of consideration for the conveyance *(if you are claiming a total exemption from tax, mark an X in the Exemption claimed box, enter consideration and proceed to Part 3)* ☒ **Exemption claimed**	1.	0
2	Continuing lien deduction *(see instructions if property is taken subject to mortgage or lien)*	2.	0
3	Taxable consideration *(subtract line 2 from line 1)*	3.	0
4	Tax: $2 for each $500, or fractional part thereof, of consideration on line 3	4.	
5	Amount of credit claimed for tax previously paid *(see instructions and attach Form TP-584.1, Schedule G)*	5.	
6	Total tax due* *(subtract line 5 from line 4)*	6.	

Part 2 – Computation of additional tax due on the conveyance of residential real property for $1 million or more

1	Enter amount of consideration for conveyance *(from Part 1, line 1)*	1.	
2	Taxable consideration *(multiply line 1 by the percentage of the premises which is residential real property, as shown in Schedule A)*	2.	
3	Total additional transfer tax due* *(multiply line 2 by 1% (.01))*	3.	

Part 3 – Explanation of exemption claimed on Part 1, line 1 *(mark an X in all boxes that apply)*

The conveyance of real property is exempt from the real estate transfer tax for the following reason:

a. Conveyance is to the United Nations, the United States of America, New York State, or any of their instrumentalities, agencies, or political subdivisions (or any public corporation, including a public corporation created pursuant to agreement or compact with another state or Canada) ..... a ☐

b. Conveyance is to secure a debt or other obligation ..... b ☐

c. Conveyance is without additional consideration to confirm, correct, modify, or supplement a prior conveyance ..... c ☐

d. Conveyance of real property is without consideration and not in connection with a sale, including conveyances conveying realty as bona fide gifts ..... d ☒

e. Conveyance is given in connection with a tax sale ..... e ☐

f. Conveyance is a mere change of identity or form of ownership or organization where there is no change in beneficial ownership. (This exemption cannot be claimed for a conveyance to a cooperative housing corporation of real property comprising the cooperative dwelling or dwellings.) Attach Form TP-584.1, Schedule F ..... f ☐

g. Conveyance consists of deed of partition ..... g ☐

h. Conveyance is given pursuant to the federal Bankruptcy Act ..... h ☐

i. Conveyance consists of the execution of a contract to sell real property, without the use or occupancy of such property, or the granting of an option to purchase real property, without the use or occupancy of such property ..... i ☐

j. Conveyance of an option or contract to purchase real property with the use or occupancy of such property where the consideration is less than $200,000 and such property was used solely by the grantor as the grantor's personal residence and consists of a one-, two-, or three-family house, an individual residential condominium unit, or the sale of stock in a cooperative housing corporation in connection with the grant or transfer of a proprietary leasehold covering an individual residential cooperative apartment ..... j ☐

k. Conveyance is not a conveyance within the meaning of Tax Law, Article 31, § 1401(e) *(attach documents supporting such claim)* ..... k ☐

* The total tax (from Part 1, line 6 and Part 2, line 3 above) is due within 15 days from the date of conveyance. Make check(s) payable to the county clerk where the recording is to take place. For conveyances of real property within New York City, use Form TP-584-NYC. If a recording is not required, send this return and your check(s) made payable to the ***NYS Department of Taxation and Finance***, directly to the NYS Tax Department, RETT Return Processing, PO Box 5045, Albany NY 12205-0045. If not using U.S. Mail, see Publication 55, *Designated Private Delivery Services*.

Schedule C – Credit Line Mortgage Certificate (Tax Law Article 11)

Complete the following only if the interest being transferred is a fee simple interest.
This is to certify that: *(mark an **X** in the appropriate box)*

1. ☒ The real property being sold or transferred is not subject to an outstanding credit line mortgage.

2. ☐ The real property being sold or transferred is subject to an outstanding credit line mortgage. However, an exemption from the tax is claimed for the following reason:

   a ☐ The transfer of real property is a transfer of a fee simple interest to a person or persons who held a fee simple interest in the real property (whether as a joint tenant, a tenant in common or otherwise) immediately before the transfer.

   b ☐ The transfer of real property is (A) to a person or persons related by blood, marriage or adoption to the original obligor or to one or more of the original obligors or (B) to a person or entity where 50% or more of the beneficial interest in such real property after the transfer is held by the transferor or such related person or persons (as in the case of a transfer to a trustee for the benefit of a minor or the transfer to a trust for the benefit of the transferor).

   c ☐ The transfer of real property is a transfer to a trustee in bankruptcy, a receiver, assignee, or other officer of a court.

   d ☐ The maximum principal amount secured by the credit line mortgage is $3 million or more, and the real property being sold or transferred is **not** principally improved nor will it be improved by a one- to six-family owner-occupied residence or dwelling.

   Note: for purposes of determining whether the maximum principal amount secured is $3 million or more as described above, the amounts secured by two or more credit line mortgages may be aggregated under certain circumstances. See TSB-M-96(6)-R for more information regarding these aggregation requirements.

   e ☐ Other *(attach detailed explanation)*.

3. ☐ The real property being transferred is presently subject to an outstanding credit line mortgage. However, no tax is due for the following reason:

   a ☐ A certificate of discharge of the credit line mortgage is being offered at the time of recording the deed.

   b ☐ A check has been drawn payable for transmission to the credit line mortgagee or mortgagee's agent for the balance due, and a satisfaction of such mortgage will be recorded as soon as it is available.

4. ☐ The real property being transferred is subject to an outstanding credit line mortgage recorded in _____ (insert liber and page or reel or other identification of the mortgage). The maximum principal amount of debt or obligation secured by the mortgage is _____. No exemption from tax is claimed and the tax of _____ is being paid herewith. *(Make check payable to county clerk where deed will be recorded.)*

Signature (both the grantors and grantees must sign)

The undersigned certify that the above information contained in Schedules A, B, and C, including any return, certification, schedule, or attachment, is to the best of their knowledge, true and complete, and authorize the person(s) submitting such form on their behalf to receive a copy for purposes of recording the deed or other instrument effecting the conveyance

Grantor signature	Title	Grantee signature	Title
County of Erie		Renaissance 8, LLC fka BLD VII, LLC	
By:	County Attorney	By:	Authorized Agent

Reminder: Did you complete all of the required information in Schedules A, B, and C? Are you required to complete Schedule D? If you marked *e*, *f*, or *g* in Schedule A, did you complete Form TP-584.1? Have you attached your check(s) made payable to the county clerk where recording will take place? If no recording is required, send this return and your check(s), made payable to the ***NYS Department of Taxation and Finance***, directly to the NYS Tax Department, RETT Return Processing, PO Box 5045, Albany NY 12205-0045. If not using U.S. Mail, see Publication 55, *Designated Private Delivery Services*.

Schedule D – Certification of exemption from the payment of estimated personal income tax (Tax Law, Article 22, § 663)

Complete the following only if a fee simple interest or a cooperative unit is being transferred by an individual or estate or trust.

If the property is being conveyed by a referee pursuant to a foreclosure proceeding, proceed to Part 2, mark an *X* in the second box under *Exemption for nonresident transferors/sellers*, and sign at bottom.

Part 1 – New York State residents

If you are a New York State resident transferor/seller listed in Form TP-584, Schedule A (or an attachment to Form TP-584), you must sign the certification below. If one or more transferor/seller of the real property or cooperative unit is a resident of New York State, **each** resident transferor/seller must sign in the space provided. If more space is needed, photocopy this Schedule D and submit as many schedules as necessary to accommodate all resident transferors/sellers.

Certification of resident transferors/sellers

This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor/seller as signed below was a resident of New York State, and therefore is not required to pay estimated personal income tax under Tax Law § 663(a) upon the sale or transfer of this real property or cooperative unit.

Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date

Note: A resident of New York State may still be required to pay estimated tax under Tax Law § 685(c), but not as a condition of recording a deed.

Part 2 – Nonresidents of New York State

If you are a nonresident of New York State listed as a transferor/seller in Form TP-584, Schedule A (or an attachment to Form TP-584) but are not required to pay estimated personal income tax because one of the exemptions below applies under Tax Law § 663(c), mark an ***X*** in the box of the appropriate exemption below. If any one of the exemptions below applies to the transferor/seller, that transferor/seller is not required to pay estimated personal income tax to New York State under Tax Law § 663. **Each** nonresident transferor/seller who qualifies under one of the exemptions below must sign in the space provided. If more space is needed, photocopy this Schedule D and submit as many schedules as necessary to accommodate all nonresident transferors/sellers.

If none of these exemption statements apply, you must complete Form IT-2663, *Nonresident Real Property Estimated Income Tax Payment Form*, or Form IT-2664, *Nonresident Cooperative Unit Estimated Income Tax Payment Form.* For more information, see *Payment of estimated personal income tax,* on Form TP-584-I, page 1.

Exemption for nonresident transferors/sellers

This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor/seller (grantor) of this real property or cooperative unit was a nonresident of New York State, but is not required to pay estimated personal income tax under Tax Law § 663 due to one of the following exemptions:

☐ The real property or cooperative unit being sold or transferred qualifies in total as the transferor's/seller's principal residence (within the meaning of Internal Revenue Code, section 121) from _____ (Date) to _____ (Date) *(see instructions).*

☐ The transferor/seller is a mortgagor conveying the mortgaged property to a mortgagee in foreclosure, or in lieu of foreclosure with no additional consideration.

☐ The transferor or transferee is an agency or authority of the United States of America, an agency or authority of New York State, the Federal National Mortgage Association, the Federal Home Loan Mortgage Corporation, the Government National Mortgage Association, or a private mortgage insurance company.

Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date
Signature	Print full name	Date

APPENDIX 5

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C915197L

Site Name Bethlehem Shoreline Trail

Site Address: 2303 Hamburg Turnpike Zip Code: 14218
City/Town: Lackawanna
County: Erie
Site Acreage: 6.96

Reporting Period: July 17, 2021 to June 8, 2023

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	☐
7. Are all ICs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C915197L **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
141.11-1-48.132	Erie County Dept. Env. & Planning	IC/EC Plan Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan

Institutional Control Description:

Adherence to Site Management Plan (SMP)
Restriction to commercial re-use
Prohibition of groundwater use
Allowance for Departmental access
Requires a Periodic Review and Report

Box 4

Description of Engineering Controls

Parcel	Engineering Control
141.11-1-48.132	Cover System

Engineering Control Description:

Site Cover

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C915197L

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I John Hood (print name) at 95 Franklin St, Buffalo, NY 14202 (print business address),

am certifying as Owner Representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

Sep 8, 2023
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I John Hood (print name) at 95 Franklin St, Buffalo, NY 14202 (print business address),

am certifying as a Qualified Environmental Professional for the Owner (Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		June 8, 2023