2024

Periodic Review Report

240 – 260 Lakefront Boulevard Site
NYSDEC Site #C915340

240 Lakefront Boulevard
City of Buffalo, Erie County, New York

Prepared for:
Lakefront Boulevard, LLC
50 Fountain Plaza
Buffalo, New York 14202

January 2024
Revision 1

Reporting Period:
December 4, 2022 to December 4, 2023

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APPENDICES

ACRONYM LIST

AAR	ALTERNATIVES ANALYSIS REPORT
BCA	BROWNFIELD CLEANUP AGREEMENT
BCP	BROWNFIELD CLEANUP PROGRAM
BGS	BELOW GROUND SURFACE
DD	DECISION DOCUMENT
DER	DEPARTMENT OF ENVIRONMENTAL REMEDIATION
EC	ENGINEERING CONTROLS
HFM	HISTORIC FILL MATERIAL
IC	INSTITUTIONAL CONTROLS
NYSDEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NYSDOH	NEW YORK STATE DEPARTMENT OF HEALTH
PAH	POLYCYCLIC AROMATIC HYDROCARBONS

PCBs	Polychlorinated Biphenyls
PPM	Parts Per Million
RAOs	Remedial Action Objectives
RI	Remedial Investigation
SCOs	Soil Cleanup Objectives
Site	2.094-Acre portion of 240 Lakefront Boulevard, Buffalo, New York
SMP	Site Management Plan
SVOCs	Semi-volatile Organic Compounds
VOCs	Volatile Organic Compounds

EXECUTIVE SUMMARY

C&S Engineers, Inc. (C&S) has prepared this 2024 Periodic Review Report for a 2.094-acre portion of the 240 Lakefront Boulevard (hereinafter referred to as the Site) located at 240 Lakefront Boulevard in Buffalo, New York.

Lakefront Boulevard, LLC entered into a Brownfield Cleanup Agreement (BCA) on February 13, 2019 with the NYSDEC to remediate the Site. A figure showing the site location and boundaries of this site is provided in **Figure 1**. The boundaries of the site are more fully described in the metes and bounds site description that is part of the Environmental Easement provided in **Appendix A**.

Contamination consists of historic unregulated deposition of urban fill throughout the entire Site. The remedy for the Site consisted of the following:

- Removal and disposal of two feet of soil from across the Site;
- Placement of a two-foot clean cover across the Site;
- Removal and disposal of urban fill excavated during utility and foundation installations;
- Removal and disposal of a hotspot around TP-02 and EB-14; and
- Installation of passive soil vapor systems for all townhome buildings.

Areas with remaining contamination will be monitored and maintained as specified in the approved Site Management Plan (SMP).

The SMP was prepared by C&S Engineers, Inc. (C&S) on behalf of Lakefront Boulevard, LLC. , in accordance with the requirements of the NYSDEC's DER-10 ("Technical Guidance for Site Investigation and Remediation"), dated May 2010, and the guidelines provided by the NYSDEC. The SMP addresses the means for implementing the Intuitional Controls (ICs) and/or Engineering Controls (ECs) that are required by the Environmental Easement for the Site. A summary of the SMP is provided below.

Site Identification:	240 Lakefront Boulevard (SBL: 110.59-1-3.11) BCP Site No. C915340
Institutional Controls:	1. The property may be used for restricted residential use.
	2. All ECs must be inspected at a frequency and in a manner defined in the SMP.
	3. The use of groundwater underlying the Site is prohibited without necessary water quality treatment as determined by the NYSDOH or the Erie County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.
	4. The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries**,** and any potential impacts that are identified must be monitored or mitigated.
	5. Compliance with the Department approved Site Management Plan and Periodic Review Reporting is required.
	6. The remedial party or site owner is required to complete and submit a periodic certification of institutional and engineering controls to the Department in accordance with 6NYCRR Part 375-1.8(h)(3).
Engineering Controls:	1. Soil Cover System: A site cover has been installed over the site in all areas exceeding applicable SCOs. The cover consists of two feet of clean soil in grassed areas and a hardscape (asphalt pavement and concrete floor slab) cover.

Site Identification:	240 Lakefront Boulevard (SBL: 110.59-1-3.11) BCP Site No. C915340
	2. Passive Soil Vapor System: The system underneath building floor slabs consists of a 10 mil vapor barrier and a network of perforated pipes to collect and passively exhaust sub-slab air. SVI will be conducted for each building to evaluate if the passive system will need to be converted to an active system.

Inspections: 1. Soil Cover and SSDS Inspection	Frequency Annually
2. Shoring Wall Inspection	Annually
Monitoring: 1. None	
Maintenance: 1. Asphalt pavement, concrete floor repair, and soil cover	As needed
Reporting: 1. Periodic Review Report	Annually

The Institutional and Engineering Controls Certification form is provided in **Appendix D**.

1 SITE OVERVIEW

The Site is located in Buffalo, Erie County, New York and is comprised of a 2.09-acre portion of 240 Lakefront Boulevard (SBL: 110.59-1-3.11, total parcel size is approximately 2.43 acres) (also see **Figure 1**).

The Site is an approximately a 2.09-acre area and is bounded by the Lakefront Boulevard to the northeast, Marina Parks townhomes to the south, Ojibwa Circle to the east, and Erie Basin Marina to the west. The boundaries of the site are more fully described in **Appendix A –Environmental Easement**.

The owner of the site parcels at the time of issuance of this PRR is/are:

Lakefront Boulevard, LLC.

50 Fountain Plaza, Suite 500

Buffalo, NY 14202

The properties adjoining the Site and in the neighborhood surrounding the Site primarily include residential properties.

1.1 Geology and Hydrogeology

Topsoil thickness varied throughout the Site. Generally, topsoil was approximately two to ten inches thick. Underneath the topsoil, the Site contains historic fill material (HFM) to approximate depths ranging from 24 to 32 (top of bedrock) feet below grade. HFM is defined as material coming from anthropogenic sources re-worked to build a site to a defined grade.

HFM is defined as material coming from anthropogenic sources of the material re-worked to build a site to a defined grade. The HFM material at the Site contains:

- Crushed Rock
- Sand
- Silt
- Clay
- Plastics
- Metal
- Construction Debris
- Lumber
- Ash/Cinders
- Ceramics
- Bricks

The HFM at this Site consisted of dark grey to black silt, clay and gravel with lesser amounts of fine to coarse sand and varying amounts of anthropogenic materials. Multiple refusals of soil borings throughout the Site indicate random pieces of concrete or brick present in the subsurface.

In some locations, fine-grained fill materials were observed. This fill material contains predominantly silty clay with trace fragments of construction material (crushed concrete or brick). In some cases, fine-grained fill materials were sandwiched between layers of urban fill.

In some instances, native material was encountered; however, these were highly variable in location and depth. When encountered, native soils consisted of moderately plastic silty clay or silty sand. On the eastern portion of the Site, silty

sand with decomposing peat and organic matter was observed above the bedrock.

Many of the deep soil borings indicate that urban fill extends to bedrock at 32 feet below grade. The January 2018 geotechnical study identified the bedrock as Onondaga Limestone, which is described as a moderately hard, slightly weathered, light grey, medium bedded porous and calcareous limestone.

The principal groundwater bearing zone beneath the Site is located between six to eleven feet below grade. Groundwater beneath the Site generally flows to the northeast and is highly influenced by Lake Erie conditions.

1.2 Site History

According to historical records, the Site was initially part of a commercial harbor (Erie Basin Marina) with most of the area consisting of waterway for freight shipments. A portion of a railway dock intersected the center of the Site with a marina and the Niagara Slip to the Erie Canal to the north.

The marina and Site were backfilled in the late 1960s, such that the Site remained vacant land.

1.3 Summary of Selected Remedy

As excerpted from the DD, elements of the selected remedy for the property include:

1. A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31.

2. Cover System – A site cover will be required to allow for restricted residential use of the site in areas where the upper two feet of exposed surface soil will exceed the restricted residential SCOs. Where a soil cover is to be used it will be a minimum of two feet of soil placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative cover. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material for the use of the site as set forth in 6 NYCRR Part 375-6.7(d). Substitution of other

materials and components may be allowed where such components already exist or are a component of the tangible property to be placed as part of site redevelopment. Such components may include, but are not necessarily limited to: pavement, concrete, paved surface parking areas, sidewalks, building foundations and building slabs.

3. Institutional Control - Imposition of an institutional control for the Track 4 areas in the form of an Environmental Easement for the controlled property which will:
    a. require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
    b. allow the use and development of the controlled property for restricted residential, commercial use or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
    c. restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and
    d. require compliance with the Department approved Site Management Plan.

4. Site Management Plan - A Site Management Plan is required for the Track 4 areas, which includes the following:
    a. an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective.

1.4 Nature and Extent of Remaining Contamination

The 240-260 Lakefront Boulevard Site was remediated to address SVOCs, metals and PCBs to achieve a Track 4 Restricted Residential Use Cleanup, which is consistent with the intended use of the Site.

Residual contamination remaining at the Site includes HFM located beneath the Site-wide soil cover system. Potential exposure is mitigated due to the depth of the contaminant, hotspot removals, and placement of a soil cover system.

Areas with remaining contamination will be monitored and maintained with a soil cover system.

1.4.1 Soil

Remaining contaminated urban fill is present throughout the Site from underneath the demarcation layer (2 feet below grade) to a depth of 32 feet below grade. Contaminated urban fill extends horizontally across the entire BCP boundary. The approximate area of contaminated material is 91, 040 square feet (2.09-acres).

Analytical results from the RI are summarized in the table below.

Table 1-1: Summary of Exceedances in Remaining Fill Material

Analyte	Samples with Detections above SCOs					Low Concentration (ppm)	High Concentration (ppm)
	UR	RS	RR	CM	IN		
VOCs							
Acetone	3					0.053	0.11
SVOCs / PAHs							
Benzo(a)anthracene			12			1	4.8
Benzo(a)pyrene				2	8	1	3.5
Benzo(b)fluoranthene			12			1.1	4.1
Benzo(k)fluoranthene	3	2				0.84	1.7
Chrysene		12				1	3.7
Dibenz(a,h)anthracene			2			0.45	0.48
Indeno(1,2,3-cd)pyrene		1	12			0.51	1.9
PCBs							
Total PCB	15					0.11	0.977
Pesticides							
4,4'-DDE	1					0.00766	0.00766
4,4'-DDD	1					0.00153	0.0153
4,4'-DDT	1					0.00128	0.0128
Metals							
Chromium	1					62.8	62.8
Copper	1					61.2	73
Lead	17					66.4	1510
Mercury	17		2		1	0.191	13.8
Zinc	9					110	508

Notes: UR = Unrestricted Use SCOs
RS = Residential Use SCOs
RR = Restricted Residential Use SCOs
CM = Commercial Use SCOs
IN = Industrial Use SCOs

Sample locations documenting remaining contamination is presented in **Figure 2**.

1.4.2 Groundwater

No post remedial action groundwater sampling was conducted on-site. RI results identified marginal concentrations of VOCs (acetone and benzene), SVOCs (phenol and PAHs), PCBs and metals (aluminum, iron, lead, magnesium and manganese) that exceed NYSDEC standards. Remaining concentrations of metals above NYSDEC standards are primarily limited to naturally occurring metals commonly found in regional groundwater. Depth to groundwater ranges from six to eleven feet. Due to the depth of contamination, city wide groundwater use ban and the placement of the soil cover system, the potential exposure to remaining groundwater contamination is unlikely.

1.4.3 Soil Vapor

Contaminated soil vapor may be present throughout the Site. During the RI, two soil vapor samples were collected in areas adjacent to neighboring buildings. Samples were placed in the locations requested by the NYSDOH. One sample was located on the northern portion of the Site adjacent to Portside Condominiums; the second location was placed adjacent to the Marina Park Condominiums tennis court. Chlorinated VOCs were detected. Other VOCs were detected in the two soil vapor samples.

VOCs

- Sample SVI-01: only one chlorinated VOC, methylene chloride, was detected at 1.7 micrograms per cubic meter (ug/m3). Total concentration of other VOCs in this sample is 2,515 ug/m3. Acetone was detected at 1,900 mg/m3 in this sample; however, acetone is a common laboratory contaminant. This acetone concentration may indicate a residual laboratory artifact.
- Sample SVI-02: two chlorinated VOCs, methylene chloride and vinyl chloride, were both detected at 1.8 ug/m3. Total concentration of other VOCs in this sample is 1,215 ug/m3. Acetone was detected at 870 mg/m3 in this sample.

The NYSDOH regulates soil vapor intrusion mostly for chlorinated volatile organic compounds (CVOC). Concentrations of regulated CVOCs in the fill material were either marginal or not detected.

2 IC/EC PLAN COMPLIANCE REPORT

2.1 IC/EC Requirements and Compliance

As stated in the 2020 Decision Document, the remedial action objectives (RAO) selected for this Site are:

Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.

RAOs for Environmental Protection

- Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through the terrestrial food chain.

Soil Vapor

RAOs for Public Health Protection

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

2.1.1 Institutional Controls

The institutional controls for this Site are:

- The property may be used for : restricted residential use;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP.
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Erie County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.

- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP;
- All future activities 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 any mechanical or physical component of the remedy shall be performed as defined in the SMP;
- 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 Easement.
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the site are prohibited;

The Site has not changed owners and the land use of the Site has not change. All intuitional controls for this Site are in accordance with requirements of the Environmental Easement.

2.1.2 Engineering Controls

The engineering controls for this Site are:

- Cover System: A site cover has been installed and/or maintained over the Site in all areas exceeding applicable SCOs. The cover consists of a two foot thick clean soil cover and hardscape (asphalt pavement and concrete floor slab).
- Passive Soil Vapor System: The system underneath all building floor slabs consists of a 10 mil vapor barrier and a network of perforated pipes to collect and passively exhaust sub-slab air. After each building is enclosed, indoor air samples and air samples from the vent piping will be collected to evaluate if the passive system will need to be converted to an active system.

All engineering controls for this Site are in accordance with requirements of the Environmental Easement.

2.2 IC/EC Certification

As required, the Site Management Periodic Review Report Notice – Institutional and Engineering Controls Certificate Form has been completed and a copy is provided in **Appendix D**.

3 SITE INSPECTION

Site reconnaissance of the property was performed on December 4, 2023. C&S conducted the site walkover to:

- Perform the annual site inspection, which included:
  - Review previous annual inspections
  - Meet with the site representative to solicit comments/concerns regarding the operation of the Engineering Controls over the past 12 months.
  - Inspection of the property exterior cover system.
  - Floor inspection on accessible townhomes in the eight-unit building, Building A and Building B.
  - An evaluation of the shoring wall condition:
    - Visual observation of the exposed portions of the sheet piling wall and surrounding area that front the Erie Basin Marina. Limits of the observation will be from western property boundary, approximately 121 linear feet.
    - Visual observation will include assess the wall for physical damage, corrosion, signs of subsidence and structural failure.
    - If any of the above, the observation will be noted in the PRR and notification will be sent to the owner of the shoring wall. Contact information will be updated for every reporting period.

3.1 Review of Institutional Controls

The following observations, related to the Site's ICs were noted at the time of the site reconnaissance:

- The Site is still under construction. The large townhome complex was completed in 2020.
- No groundwater was observed being used at the property. No potable or groundwater supply wells were observed.
- The next two smaller townhomes (Buildings A and B) are under construction and expect to be occupied in 2024.
- No vegetable gardens or farming is being conducted at the property.

3.2 Review of Engineering Controls

The following observations, related to the ECs were noted during the site reconnaissance:

- The asphalt surfaces of the parking lots were in good condition with no evidence of cracks, settlement, or deterioration.
- The exterior concrete surfaces were in good condition with no evidence of cracks, settlement, or deterioration.
- Green space areas with the two-foot soil cover was in good condition with no evidence of erosion, settlement, or deterioration.
- The shoring wall appeared to be in good condition with no evidence of physical damage, corrosion, signs of subsidence and structural failure.
- Interior concrete surfaces that could be observed were in good condition with no evidence of cracks, settlement, or deterioration.
- On December 4, 2023, C&S conducted soil vapor sampling on Building A only in accordance with the approved Soil Vapor Intrusion Sampling Work Plan. Building B was not ready for soil vapor sampling. Building B is expected to be ready for sampling by late January 2024. A report detailing the sampling activities will be prepared for both buildings in February 2024 for NYSDEC and NYSDOH review.

A copy of the Site Inspection Checklist is provided in **Appendix B**. A Photo Log is provided in **Appendix B**.

3.3 Reporting Period Construction Activities

During the reporting period no intrusive activities below the demarcation layer were performed. Onsite activities consisted of vertical construction of the two 4-unit townhomes (Building A and Building B), importation of topsoil (11/9/23 to 11/10/23) and

installation of landscaping 11/13/23 to 11/17/23); including installing plantings within the soil cover.

For the imported topsoil and sod, documentation was provided to the NYSDEC as to the source of the material and the consistency of the material in accordance with in DER-10. A total of 102.8 tons of topsoil and 41 cubic yards of sod was imported to the Site. **Appendix C-1** provides a copy of the import request and approval from the NYSDEC. **Appendix C-2** provides the truck tickets for the imported material. **Figure 4** shows the extent of the construction activities.

4 CONCLUSIONS

4.1 Compliance with Site Management Plan

The requirements of the Site Management Plan appear to be satisfied.

4.2 Performance and Effectiveness of the Remedy

The cover system remains fully intact and continues to provide protection for human health and the environment, as designed.

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FIGURES

Legend

BROWNFIELD CLEANUP (BCP) BOUNDARY

0 250 500 1,000 Feet

C&S COMPANIES®
C&S Engineers, Inc.
141 Elm Street.
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454
www.cscos.com

N

240-260 LAKEFRONT BLVD. SITE
BROWNFIELD CLEANUP PROGRAM

CITY OF BUFFALO, NEW YORK

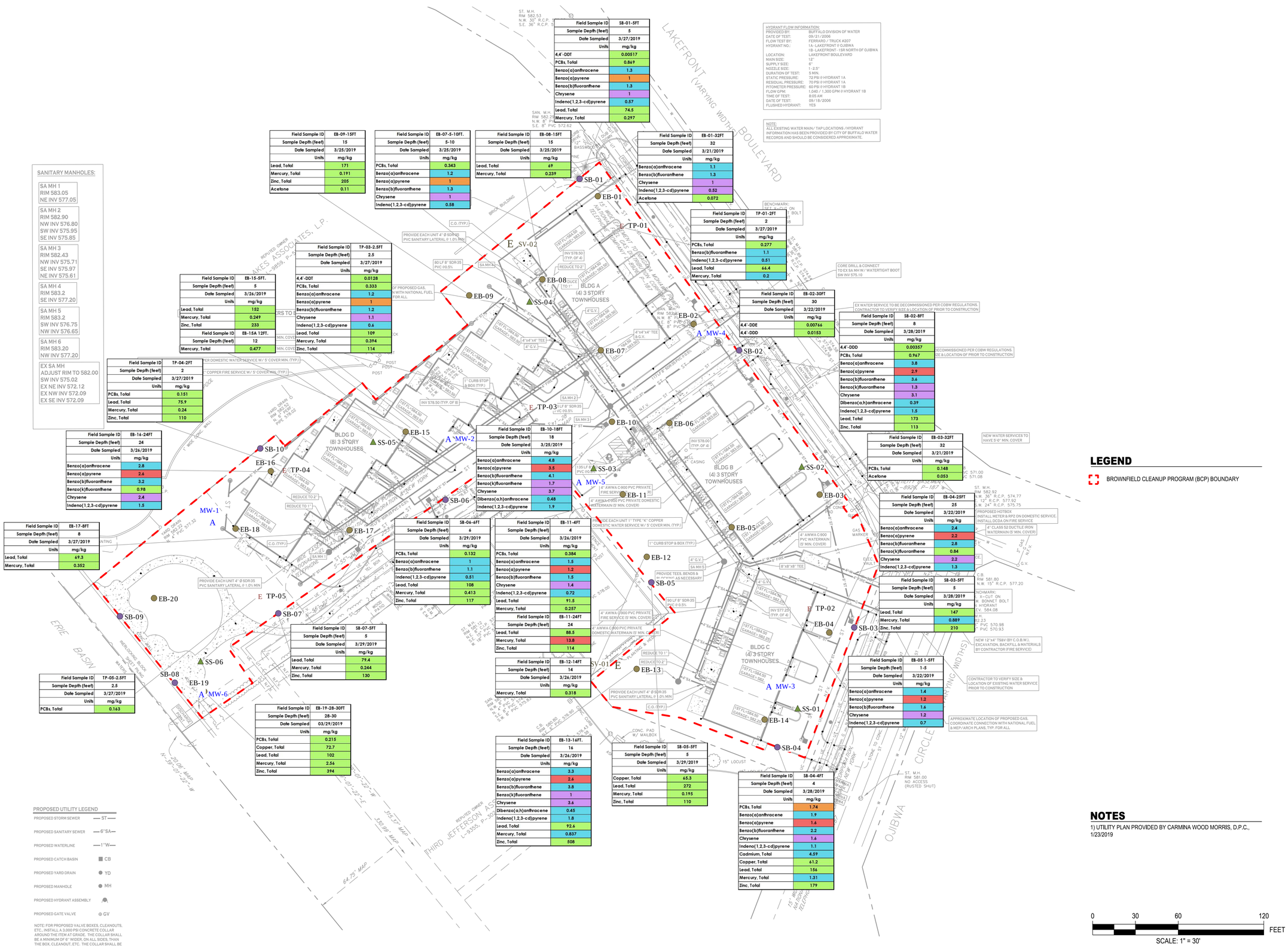
MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO:	E67.022.003
DATE:	AUGUST 15, 2018
DRAWN BY:	C. MARTIN
DESIGNED BY:	C. MARTIN
CHECKED BY:	D. RIKER

SITE LOCATION

FIGURE 1

Document Path: F:\Project\E67 - Ciminelli Development\E67.022.001 - 240-260 Lakefront Boulevard\Planning-Study\CADD\RI-IRM\RI_IRM_ SITE_LOCATION.mxd
F:\Project\E67 - Ciminelli Development\E67.022.001 - 240-260 Lakefront Boulevard\Planning-Study\CADD\1 SITE LOCATION.dwg



Field Sample ID	SB-01-5FT
Sample Depth (feet)	5
Date Sampled	3/27/2019
Units	mg/kg
4,4'-DDT	0.00517
PCBs, Total	0.869
Benzo(a)anthracene	1.3
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1.3
Chrysene	1
Indeno(1,2,3-cd)pyrene	0.57
Lead, Total	74.5
Mercury, Total	0.297

Field Sample ID	EB-09-15FT
Sample Depth (feet)	15
Date Sampled	3/25/2019
Units	mg/kg
Lead, Total	171
Mercury, Total	0.191
Zinc, Total	205
Acetone	0.11

Field Sample ID	EB-07-5-10FT.
Sample Depth (feet)	5-10
Date Sampled	3/25/2019
Units	mg/kg
PCBs, Total	0.343
Benzo(a)anthracene	1.2
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1.3
Chrysene	1
Indeno(1,2,3-cd)pyrene	0.58

Field Sample ID	EB-08-15FT
Sample Depth (feet)	15
Date Sampled	3/25/2019
Units	mg/kg
Lead, Total	69
Mercury, Total	0.239

Field Sample ID	EB-01-32FT
Sample Depth (feet)	32
Date Sampled	3/21/2019
Units	mg/kg
Benzo(a)anthracene	1.1
Benzo(b)fluoranthene	1.3
Chrysene	1
Indeno(1,2,3-cd)pyrene	0.52
Acetone	0.072

Field Sample ID	TP-01-2FT
Sample Depth (feet)	2
Date Sampled	3/27/2019
Units	mg/kg
PCBs, Total	0.277
Benzo(b)fluoranthene	1.1
Indeno(1,2,3-cd)pyrene	0.51
Lead, Total	66.4
Mercury, Total	0.2

Field Sample ID	TP-03-2.5FT
Sample Depth (feet)	2.5
Date Sampled	3/27/2019
Units	mg/kg
4,4'-DDT	0.0128
PCBs, Total	0.333
Benzo(a)anthracene	1.2
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1.2
Chrysene	1.1
Indeno(1,2,3-cd)pyrene	0.6
Lead, Total	109
Mercury, Total	0.394
Zinc, Total	114

Field Sample ID	EB-15-5FT.
Sample Depth (feet)	5
Date Sampled	3/26/2019
Units	mg/kg
Lead, Total	152
Mercury, Total	0.249
Zinc, Total	233
Field Sample ID	EB-15A 12FT.
Sample Depth (feet)	12
Mercury, Total	0.477

Field Sample ID	EB-02-30FT
Sample Depth (feet)	30
Date Sampled	3/22/2019
Units	mg/kg
4,4'-DDE	0.00766
4,4'-DDD	0.0153

Field Sample ID	SB-02-8FT
Sample Depth (feet)	8
Date Sampled	3/28/2019
Units	mg/kg
4,4'-DDD	0.00357
PCBs, Total	0.967
Benzo(a)anthracene	3.8
Benzo(a)pyrene	2.9
Benzo(b)fluoranthene	3.6
Benzo(k)fluoranthene	1.3
Chrysene	3.1
Dibenzo(a,h)anthracene	0.39
Indeno(1,2,3-cd)pyrene	1.5
Lead, Total	173
Zinc, Total	113

Field Sample ID	TP-04-2FT
Sample Depth (feet)	2
Date Sampled	3/27/2019
Units	mg/kg
PCBs, Total	0.151
Lead, Total	75.9
Mercury, Total	0.24
Zinc, Total	110

Field Sample ID	EB-10-18FT
Sample Depth (feet)	18
Date Sampled	3/25/2019
Units	mg/kg
Benzo(a)anthracene	4.8
Benzo(a)pyrene	4.1
Benzo(b)fluoranthene	4.1
Benzo(k)fluoranthene	1.7
Chrysene	3.7
Dibenzo(a,h)anthracene	0.48
Indeno(1,2,3-cd)pyrene	1.9

Field Sample ID	EB-03-32FT
Sample Depth (feet)	32
Date Sampled	3/21/2019
Units	mg/kg
PCBs, Total	0.148
Acetone	0.053

Field Sample ID	EB-16-24FT
Sample Depth (feet)	24
Date Sampled	3/26/2019
Units	mg/kg
Benzo(a)anthracene	2.8
Benzo(a)pyrene	2.6
Benzo(b)fluoranthene	3.2
Benzo(k)fluoranthene	0.98
Chrysene	2.4
Indeno(1,2,3-cd)pyrene	1.5

Field Sample ID	EB-04-25FT
Sample Depth (feet)	25
Date Sampled	3/22/2019
Units	mg/kg
Benzo(a)anthracene	2.4
Benzo(a)pyrene	2.2
Benzo(b)fluoranthene	2.8
Benzo(k)fluoranthene	0.84
Chrysene	2.2
Indeno(1,2,3-cd)pyrene	1.3

Field Sample ID	EB-17-8FT
Sample Depth (feet)	8
Date Sampled	3/27/2019
Units	mg/kg
Lead, Total	69.3
Mercury, Total	0.352

Field Sample ID	SB-06-6FT
Sample Depth (feet)	6
Date Sampled	3/29/2019
Units	mg/kg
PCBs, Total	0.132
Benzo(a)anthracene	1
Benzo(b)fluoranthene	1.1
Indeno(1,2,3-cd)pyrene	0.51
Lead, Total	108
Mercury, Total	0.413
Zinc, Total	117

Field Sample ID	EB-11-4FT
Sample Depth (feet)	4
Date Sampled	3/26/2019
Units	mg/kg
PCBs, Total	0.384
Benzo(a)anthracene	1.5
Benzo(a)pyrene	1.2
Benzo(b)fluoranthene	1.5
Chrysene	1.4
Indeno(1,2,3-cd)pyrene	0.72
Lead, Total	91.5
Mercury, Total	0.257
Field Sample ID	EB-11-24FT
Sample Depth (feet)	24
Lead, Total	88.5
Mercury, Total	13.8
Zinc, Total	114

Field Sample ID	SB-03-5FT
Sample Depth (feet)	5
Date Sampled	3/28/2019
Units	mg/kg
Lead, Total	147
Mercury, Total	0.889
Zinc, Total	210

Field Sample ID	TP-05-2.5FT
Sample Depth (feet)	2.5
Date Sampled	3/27/2019
Units	mg/kg
PCBs, Total	0.163

Field Sample ID	SB-07-5FT
Sample Depth (feet)	5
Date Sampled	3/29/2019
Units	mg/kg
Lead, Total	79.4
Mercury, Total	0.244
Zinc, Total	130

Field Sample ID	EB-12-14FT
Sample Depth (feet)	14
Date Sampled	3/26/2019
Units	mg/kg
Mercury, Total	0.318

Field Sample ID	EB-05 1-5FT
Sample Depth (feet)	1-5
Date Sampled	3/22/2019
Units	mg/kg
Benzo(a)anthracene	1.4
Benzo(a)pyrene	1.2
Benzo(b)fluoranthene	1.6
Chrysene	1.2
Indeno(1,2,3-cd)pyrene	0.7

Field Sample ID	EB-19-28-30FT
Sample Depth (feet)	28-30
Date Sampled	03/29/2019
Units	mg/kg
PCBs, Total	0.215
Copper, Total	72.7
Lead, Total	102
Mercury, Total	2.56
Zinc, Total	394

Field Sample ID	EB-13-16FT.
Sample Depth (feet)	16
Date Sampled	3/26/2019
Units	mg/kg
Benzo(a)anthracene	3.3
Benzo(a)pyrene	2.6
Benzo(b)fluoranthene	3.8
Benzo(k)fluoranthene	1
Chrysene	3.6
Dibenzo(a,h)anthracene	0.45
Indeno(1,2,3-cd)pyrene	1.8
Lead, Total	92.6
Mercury, Total	0.837
Zinc, Total	508

Field Sample ID	SB-05-5FT
Sample Depth (feet)	5
Date Sampled	3/29/2019
Units	mg/kg
Copper, Total	65.3
Lead, Total	272
Mercury, Total	0.195
Zinc, Total	110

Field Sample ID	SB-04-4FT
Sample Depth (feet)	4
Date Sampled	3/28/2019
Units	mg/kg
PCBs, Total	1.74
Benzo(a)anthracene	1.9
Benzo(a)pyrene	1.6
Benzo(b)fluoranthene	2.2
Chrysene	1.6
Indeno(1,2,3-cd)pyrene	1.1
Cadmium, Total	4.59
Copper, Total	61.2
Lead, Total	156
Mercury, Total	1.31
Zinc, Total	179

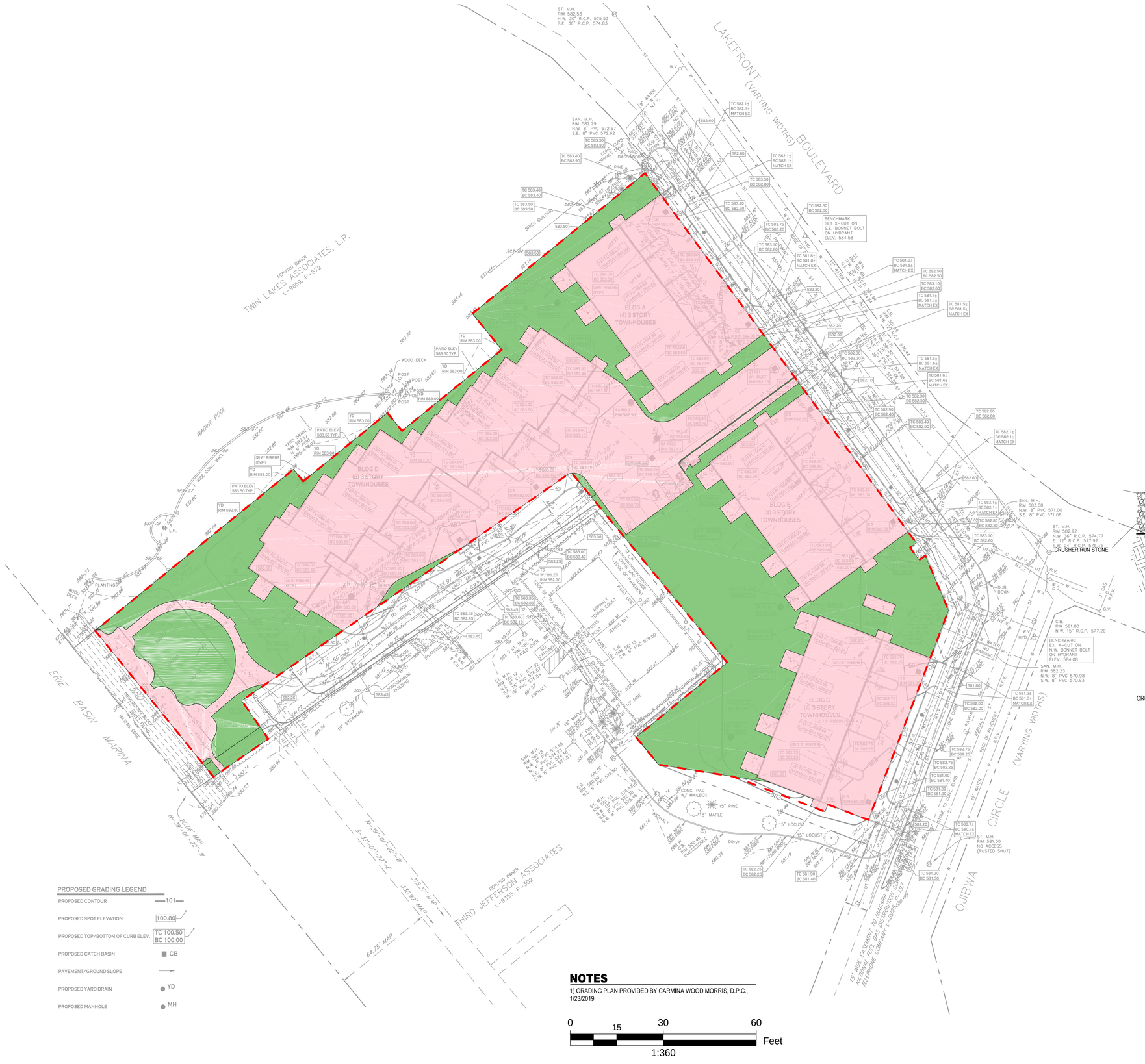
C&S Engineers, Inc.
141 Elm Street.
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454
www.cscos.com

240 - 260 LAKEFRONT BOULEVARD SITE
BROWNFIELD CLEANUP PROGRAM
SITE NO. C915340
CITY OF BUFFALO, NY

PROJECT NO:	E67.022.002
DATE:	02/7/2019
DRAWN BY:	C. MARTIN
DESIGNED BY:	C. MARTIN
CHECKED BY:	D. RIKER

REMAINING SOIL CONTAMINATION

FIGURE 2



PROPOSED GRADING LEGEND

PROPOSED CONTOUR	101
PROPOSED SPOT ELEVATION	100.80
PROPOSED TOP/BOTTOM OF CURB ELEV.	TC 100.50 BC 100.00
PROPOSED CATCH BASIN	CB
PAVEMENT/GROUND SLOPE	
PROPOSED YARD DRAIN	YD
PROPOSED MANHOLE	MH

NOTES

1) GRADING PLAN PROVIDED BY CARMINA WOOD MORRIS, D.P.C., 1/23/2019

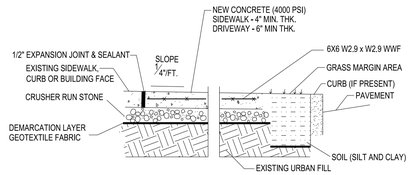
0 15 30 60 Feet

1:360

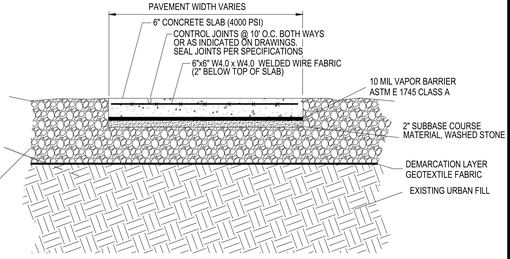
LEGEND

BROWNFIELD CLEANUP PROGRAM (BCP) BOUNDARY

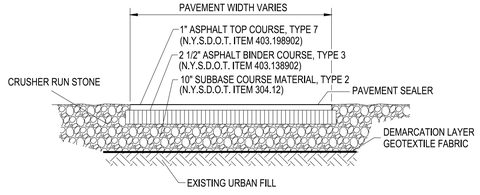
SOIL COVER TYPE A
- HARDSCAPE (CONCRETE AND ASPHALT) AND SUB-BASE MATERIAL
- SEE SITE PLAN DETAILS
- TOTAL AREA = 57,207 SQUARE FEET



CONCRETE SIDEWALK
N.T.S.

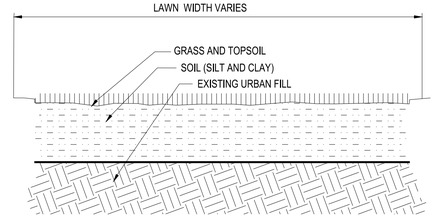


SLAB-ON-GRADE SECTION
N.T.S.



STANDARD DUTY ASPHALT SECTION
N.T.S.

SOIL COVER TYPE B
- AREAS NOT COVERED BY HARDSCAPE REQUIRE AT LEAST 2-FEET OF NYSDEC APPROVED MATERIAL ABOVE CONTAMINATED FILL MATERIAL
- SEE SITE PLAN DETAILS
- TOTAL AREA = 33,809 SQUARE FEET



LAWN SECTION
N.T.S.

C&S Engineers, Inc.
141 Elm Street.
Buffalo, New York 14203
Phone: 716-847-1630
Fax: 716-847-1454
www.cscos.com

240 - 260 LAKEFRONT BOULEVARD SITE
BROWNFIELD CLEANUP PROGRAM
SITE NO. C915340

CITY OF BUFFALO, NY

PROJECT NO:	E67.022.002
DATE:	03/21/2019
DRAWN BY:	C. MARTIN
DESIGNED BY:	C. MARTIN
CHECKED BY:	D. RIKER

SOIL COVER SYSTEM

FIGURE 3

Figure 4

Construction Activities

Brownfield Cleanup Program Boundary

Property Boundary

N

0 30 60 120 Feet

1 in. = 60 feet
When printed at 11 in. by 17 in.

240 - 260 Lakefront Boulevard Site
BCP Site #C915340

Sources: , Created by C&S Engineers, Inc.

APPENDICES

APPENDIX A

ENVIRONMENTAL EASEMENT

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Office of the General Counsel
625 Broadway, 14th Floor, Albany, New York 12233-1500
P: (518) 402-9185 | F: (518) 402-9018
www.dec.ny.gov

September 18, 2019

SENT VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED
AND ELECTRONIC MAIL cslater@cslaterlaw.com

Craig A. Slater, Esq.
The Slater Law Firm
500 Seneca Street, Suite 504
Buffalo, NY 14204

RE: Environmental Easement Package
Site Name: 204 – 260 Lakefront Boulevard Site
Site No.: C915340

Dear Mr. Slater:

Enclosed, please find a fully executed Environmental Easement and TP-584 tax form referencing the site located at 240 – 260 Lakefront Boulevard, Buffalo, County of Erie, New York.

Once the Environmental Easement is recorded, the local municipality will need to be notified via Certified Mail, Return Receipt Requested.

Please return a copy of the recorded easement marked by the County Clerk's Office with the date and location of recording, and a certified copy of the municipal notice. The information from the recorded easement and notices are necessary to process the Certificate of Completion.

If you have any further questions or concerns relating to this matter, please contact our office at (518) 408-0409.

Sincerely,

Jennifer Andaloro, Esq.
Section Chief A
Remediation Bureau

ec: B. Burns, Esq., NYSDEC

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 17th day of Sept, 2019, between Owner(s) Lakefront Boulevard, LLC, having an office at 50 Fountain Plaza, Suite 500, Buffalo, New York 14202, County of Erie, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee"), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 240 Lakefront Boulevard in the City of Buffalo, County of Erie and State of New York, known and designated on the tax map of the County Clerk of Erie as tax map parcel numbers: Section 110.59 Block 1 Lot 4.1, being a portion of the property conveyed to Grantor by deed dated May 10, 2019 and recorded in the Erie County Clerk's Office in Liber and Page 11344/2108.

WHEREAS, Grantor, is the owner of real property located at the address of 260 Lakefront Boulevard in the City of Buffalo, County of Erie and State of New York, known and designated on the tax map of the County Clerk of Erie as tax map parcel numbers: Section 110.59 Block 1 Lot 3.1, being a portion of the property conveyed to Grantor by deed dated May 10, 2019 and recorded in the Erie County Clerk's Office in Liber and Page 11344/2108.

WHEREAS, the property subject to this Environmental Easement (the "Controlled

Property") comprises approximately 2.08 +/- acres, and is hereinafter more fully described in the Land Title Survey dated October 20, 2016 and last revised August 1, 2019 prepared by John E. McIntosh, III, L.L.S. of McIntosh & McIntosh, P.C., which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C915340-01-19 as amended May 17, 2019, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Erie County

Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) 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 this Environmental Easement.

B. The Controlled Property shall not be used for Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement

is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced 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.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her 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

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and

successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: C915340
Office of General Counsel
NYSDEC
625 Broadway

Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Lakefront Boulevard, LLC:

By: _____

Print Name: Paul F. Ciminelli

Title: Managing Member Date: 9/3/19

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ERIE)

On the 3rd day of September, in the year 20 19, before me, the undersigned, personally appeared Paul F. Ciminelli, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is ~~(are)~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ capacity~~(ies)~~, and that by his/~~her/their~~ signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Notary Public - State of New York

KATHLEEN A. GUENTHER #01GU4675162
NOTARY PUBLIC, STATE OF NEW YORK
QUALIFIED IN ERIE COUNTY
My Commission Expires August 31, 2020

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting by and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Michael J. Ryan, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 17th day of September, in the year 2019, before me, the undersigned, personally appeared Michael J. Ryan, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, 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 - State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2022

SCHEDULE "A" PROPERTY DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Buffalo, County of Erie, State of New York, and being part of Lots 5 and 14 of the New York State Mile Reserve and also being part of Sublots 19 and 20 as shown on a map prepared by Bissell Merrill Associates titled "Waterfront Village Part II" as filed in the Erie County Clerk's Office under Map Cover No. 2433, bounded and described as follows:

BEGINNING AT A POINT on the southeast line of lands conveyed to Twin Lakes Associates, L.P. by deed recorded in the Erie County Clerk's Office in Liber 9859 of Deeds at Page 572 at a distance of 5.01 feet southwesterly measured along the southeast line of said Twin Lakes Associates, L.P. lands, from its intersection with the southwest line of Lakefront Boulevard;

RUNNING THENCE: S-36°-07'-00"-E, parallel with the southwest line of Lakefront Boulevard and 5.0 feet southwesterly therefrom as measured at right angles thereto, a distance of 296.53 feet to a point;

RUNNING THENCE: S-53°-53'-00"-W, a distance of 5.0 feet to a point;

RUNNING THENCE: S-36°-07'-00"-E, a distance of 10.0 feet to a point;

RUNNING THENCE: N-53°-53'-00"-E, a distance of 4.74 feet to a point;

RUNNING THENCE: S-22°-48"-28"-E, parallel with the southwest line of Lakefront Boulevard and 5.0 feet southwesterly therefrom as measured at right angles thereto, a distance of 37.89 feet to a point;

RUNNING THENCE: S-21°-03'-33"-W, parallel with the northwest line of Ojibwa Circle and 5.0 feet northwesterly therefrom as measured at right angles thereto, a distance of 144.82 feet to a point;

RUNNING THENCE: N-68°-57'-01"-W, a distance of 28.0 feet to a point;

RUNNING THENCE: S-21°-04'-04"-W, a distance of 5.0 feet to a point;

RUNNING THENCE: N-68°-53'-24"-W, a distance of 63.29 feet to a point;

RUNNING THENCE: N-80°-50'-33"-W, a distance of 48.76 feet to a point on a northerly line of lands conveyed to Third Jeffersonian Associates by deed recorded in the Erie County Clerk's Office in Liber 9355 of Deeds at Page 302;

RUNNING THENCE: N-39°-21'-04"-W, along a northerly line of said Third Jeffersonian Associates, a distance of 23.10 feet to a point;

RUNNING THENCE: N-50°-48'-32"-E, parallel with a southeast line of said Third Jeffersonian

Associates lands and 3.0 feet southeasterly therefrom as measured at right angles thereto, a distance of 75.99 feet to a point;

RUNNING THENCE: N-39°-11'-28"-W, parallel with a northeast line of said Third Jeffersonian Associates lands and 3.0 feet northeasterly therefrom as measured at right angles thereto, a distance of 158.86 feet to a point;

RUNNING THENCE: S-55°-22'-10"-W, parallel with the northwest line of said Third Jeffersonian Associates lands and 30.0 feet northwesterly therefrom as measured at right angles thereto, a distance of 258.70 feet to a point;

RUNNING THENCE: S-34°-37'-50"-E, a distance of 30.0 feet to a point on the northwesterly line of said Third Jeffersonian Associates lands;

RUNNING THENCE: S-55°-22'-10"-W, along the northwest line of said Third Jeffersonian Associates lands, a distance of 42.97 feet to a point on the northeast face of a concrete wall;

RUNNING THENCE: N-38°-50'-37"-W, along the northeast face of said concrete wall, a distance of 121.38 feet to a point on the southeast line of said Twin Lake Associates, L.P. lands;

RUNNING THENCE: The following seven (7) courses and distances along the southeast line of said Twin Lakes Associates, L.P. lands:

1. N-50°-58'-38"-E, a distance of 164.97 feet to an angle point therein;
2. S-39°-01'-22"-E, a distance of 10.0 feet to an angle point therein;
3. N-50°-58'-38"-E, a distance of 70.0 feet to an angle point therein;
4. S-39°-01'-22"-E, a distance of 15.0 feet to an angle point therein;
5. N-50°-58'-38"-E, a distance of 83.0 feet to an angle point therein;
6. N-39°-01'-22"-W, a distance of 30.0 feet to an angle point therein;
7. N-50°-58'-38"-E, a distance of 143.57 feet to the POINT OR PLACE OF BEGINNING, containing 2.09 Acres, be the same, more or less.

SUBJECT to easements, rights of way and restrictions of record.

TP-584 (4/13)

New York State 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	Name *(if individual, last, first, middle initial)* (☐ *check if more than one grantor)*	Social security number
☐ Individual	Lakefront Boulevard, LLC	
☐ Corporation	Mailing address	Social security number
☐ Partnership	50 Fountain Plaza, Suite 500	
☐ Estate/Trust	City / State / ZIP code	Federal EIN
☒ Single member LLC	Buffalo / NY / 14202	38-4047638
☐ Other	Single member's name if grantor is a single member LLC *(see instructions)*	Single member EIN or SSN

Grantee/Transferee	Name *(if individual, last, first, middle initial)* (☐ *check if more than one grantee)*	Social security number
☐ Individual	New York State Department of Environmental Conservation	
☐ Corporation	Mailing address	Social security number
☐ Partnership	625 Broadway	
☐ Estate/Trust	City / State / ZIP code	Federal EIN
☐ Single member LLC	Albany / NY / 12233	14-6013200
☒ Other	Single member's name if grantee is a single member LLC *(see instructions)*	Single member EIN or SSN

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
110.59-1-4.1;110.59-1-3.	140200	240-260 Lakefront Boulevard	Buffalo	Erie

Type of property conveyed *(check 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 ☒ Other Easement

Date of conveyance: 09 (month) | 17 (day) | 2019 (year)

Percentage of real property conveyed which is residential real property 0 % *(see instructions)*

Condition of conveyance *(check 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 III)*
q. ☐ Conveyance of property partly within and partly outside the state
r. ☐ Conveyance pursuant to divorce or separation
s. ☒ Other *(describe)* Easement

For recording officer's use	Amount received	Date received	Transaction number
	Schedule B., Part I $ Schedule B., Part II $		

Schedule B — Real estate transfer tax return (Tax Law, Article 31)

Part I – Computation of tax due

1	Enter amount of consideration for the conveyance *(if you are claiming a total exemption from tax, check the exemption claimed box, enter consideration and proceed to Part III)* ☒ **Exemption claimed**	1.	
2	Continuing lien deduction *(see instructions if property is taken subject to mortgage or lien)*	2.	
3	Taxable consideration *(subtract line 2 from line 1)*	3.	
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 II – 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 I, 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 III – Explanation of exemption claimed on Part I, line 1 *(check any 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, the state of New York, 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, section 1401(e) *(attach documents supporting such claim)* ..... k ☐

*The total tax (from Part I, line 6 and Part II, line 3 above) is due within 15 days from the date conveyance. Please make check(s) payable to the county clerk where the recording is to take place. If the recording is to take place in the New York City boroughs of Manhattan, Bronx, Brooklyn, or Queens, make check(s) payable to the ***NYC Department of Finance.*** 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 12205-5045.

Schedule C — Credit Line Mortgage Certificate (Tax Law, Article 11)

Complete the following only if the interest being transferred is a fee simple interest.
I (we) certify that: *(check 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:
   - ☐ 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.
   - ☐ 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).
   - ☐ The transfer of real property is a transfer to a trustee in bankruptcy, a receiver, assignee, or other officer of a court.
   - ☐ The maximum principal amount secured by the credit line mortgage is $3,000,000 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.

     Please note: for purposes of determining whether the maximum principal amount secured is $3,000,000 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.
   - ☐ 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 certificate of discharge of the credit line mortgage is being offered at the time of recording the deed.
   - ☐ A check has been drawn payable for transmission to the credit line mortgagee or his 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 or, if the recording is to take place in New York City but not in Richmond County, make check payable to the **NYC Department of Finance**.)*

Signature (both the grantor(s) and grantee(s) 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 his/her 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
[signature]	Managing Member	[signature]	NYSDEC Attorney
Grantor signature	Title	Grantee signature	Title

Reminder: Did you complete all of the required information in Schedules A, B, and C? Are you required to complete Schedule D? If you checked *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 or, if the recording is in the New York City boroughs of Manhattan, Bronx, Brooklyn, or Queens, to the ***NYC Department of Finance***? If no recording is required, send your check(s), made payable to the ***Department of Taxation and Finance***, directly to the NYS Tax Department, RETT Return Processing, PO Box 5045, Albany NY 12205-5045.

Schedule D - Certification of exemption from the payment of estimated personal income tax (Tax Law, Article 22, section 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 II, and check the second box under *Exemptions for nonresident transferor(s)/seller(s)* and sign at bottom.

Part I - New York State residents

If you are a New York State resident transferor(s)/seller(s) listed in Schedule A of Form TP-584 (or an attachment to Form TP-584), you must sign the certification below. If one or more transferors/sellers 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, please photocopy this Schedule D and submit as many schedules as necessary to accommodate all resident transferors/sellers.

Certification of resident transferor(s)/seller(s)

This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor(s)/seller(s) as signed below was a resident of New York State, and therefore is not required to pay estimated personal income tax under Tax Law, section 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, section 685(c), but not as a condition of recording a deed.

Part II - Nonresidents of New York State

If you are a nonresident of New York State listed as a transferor/seller in Schedule A of Form TP-584 (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, section 663(c), check the box of the appropriate exemption below. If any one of the exemptions below applies to the transferor(s)/seller(s), that transferor(s)/seller(s) is not required to pay estimated personal income tax to New York State under Tax Law, section 663. **Each** nonresident transferor/seller who qualifies under one of the exemptions below must sign in the space provided. If more space is needed, please 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 page 1 of Form TP-584-I.

Exemption for nonresident transferor(s)/seller(s)

This is to certify that at the time of the sale or transfer of the real property or cooperative unit, the transferor(s)/seller(s) (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, section 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 the state of New York, 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 B

SITE INSPECTION FORMS

240 - 260 Lakefront Boulevard Site
240 Lakefront Boulevard, Buffalo, New York
Inspector's Name: Cody Martin
Weather Conditions: Overcast

Inspection Date: December 4, 2023
Temperature (^{o}F): 35
Inspection Time: 9:00 am
Comments:
Inspection conducted during SVI sampling of Building A.

Pre Inspection Checklist
- Review previous annual inspections
- Meet with the site representative to solicit comments/concerns regarding the

Comments:
Met with Construction Manager for ARC Building Partners - Mitch Ryberg
NYSDEC was onsite during the site inspection

Cover System - Floor Inspection
1. Walk all freely accessable floors
- Any visible cracks or settlement in the ground floors?
- Any other visible openings (unintended) in the ground floors?
- Draw approximate location of floor cracks/openings on site map.
- Note the length of the crack/opening.

Comments:
Was given access to only one un-occupied townhome garage for inspection in the eight unit building. No cracks or settlement observed.
No cracks or settlement was observed in garages of Buildings A and B.

Cover System - Exterior Inspection
1. Walk and inspect the entire perimeter of the Site.
2. Walk and inspect all of the paved areas (concrete and asphalt) of the Site.
- Are there any signs of significant cracks, settlement or deterioration of the paved areas?
- Has any of the pavement material been removed?
- Have any structures been constructed on the unpaved areas?
- Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)?
- Are there any signs of intrusive activities (drilling, digging, trenching, grading,

Comments:
None.

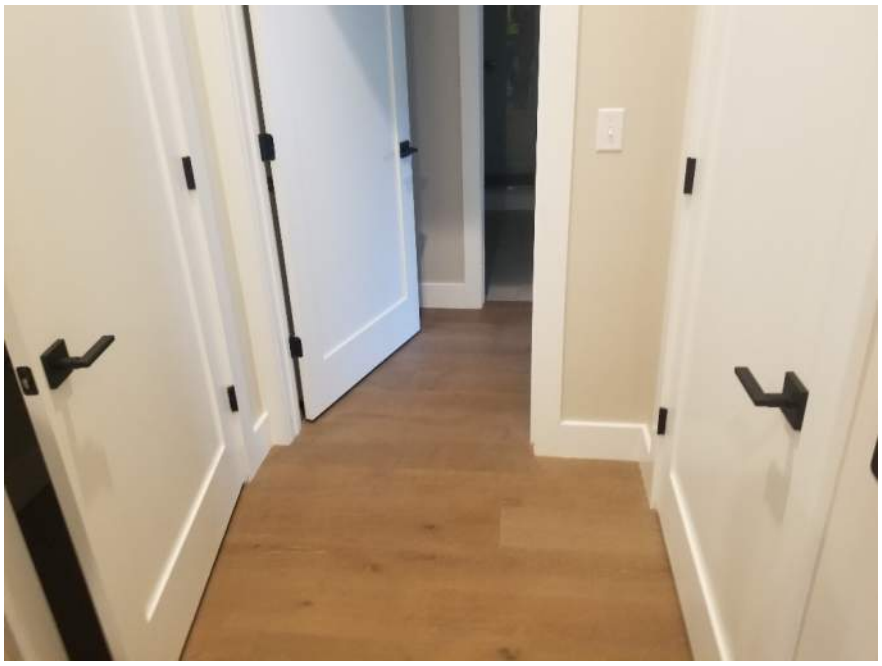
Repair
Summarize needed/completed repairs to the Engineering Controls:
None

Shoring Wall
1. Walk and inspect the western property boundary along the Erie Basin Marina.
- Are there any visual signs of physical damage, corrosion, subsidence or structural failure ?

Comments:
No. The shoring wall appears to be in good condition.

Inspector's Signature: _____

Unoccupied townhome (Unit 272) in the eight-unit building.



Finished interior in Unit 272.

View of garage floor inside Unit 272 hardscape (Soil Cover Type A).

Building A – typical interior of the first-floor entrance.

Building A – typical interior of the garage.

Building A – hardscape (Soil Cover Type A) and landscape areas (Soil Cover Type B).

Building A - view of Track 4 cover system along northern boundary. Soil Cover Type A and B.

Building A - view of Track 4 cover system of the Site along Lakefront Boulevard (Soil Cover Type A and B).

Building B – view of Track 4 cover system of the Site along Lakefront Boulevard (Soil Cover Type A and B).

View of the Track 4 cover – driveway (Soil Cover Type A) and landscape areas (Soil Cover Type B).

View of Track 4 cover system behind Building B. Soil Cover Type A (building foundations and concrete pad) and landscaped areas.

View of Track 4 cover system behind Building A. Soil Cover Type A (building foundations and concrete pad) and landscaped areas.

View of the Track 4 cover consisting of eight-unit townhome (Soil Cover Type A) and landscape areas (Soil Cover Type B).

View of the Track 4 cover – landscape areas (Soil Cover Type B).

View of the shoring wall looking north.

View of the Track 4 cover – eight-unit building (Soil Cover Type A) and landscape areas (Soil Cover Type B).

View of Track 4 cover system adjacent to Ojibwa Circle. Showing Soil Cover Type A (hardscape) and Soil Cover Type B (landscape).

View of the Track 4 cover – hardscape areas (Soil Cover Type A) for future townhome development.

View of the Track 4 cover – hardscape areas (Soil Cover Type A) for future townhome development.

View of Track 4 cover system adjacent to Ojibwa Circle. Showing Soil Cover Type A (hardscape) and Soil Cover Type B (landscape).

APPENDIX C-1

IMPORT REQUEST AND APPROVAL

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220| F: (716) 851-7226
www.dec.ny.gov

November 15, 2023

Cody Martin
C&S Engineers, Inc.
141 Elm Street, Suite 100
Buffalo, NY 14203

Re: Site Management (SM) –
Import Request
240 – 260 Lakefront Boulevard Site, Buffalo
Erie County, Site No.: **C915340**

Dear Cody Martin:

The Department has reviewed your request received November 14, 2023 to import approximately 50 cubic yards of topsoil from C.J. Krantz Organics. Based on the information provided, the request is hereby approved.

The proposed fill material meets the Restricted Residential soil cleanup objectives as provided in Appendix 5 of DER-10 and the guidance document "Sampling, Analysis and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs". Therefore, this material may be placed below or above the demarcation layer. Testing in accordance with DER-10 and approval by the Department is required for any additional material imported from this source.

If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,

Megan Kuczka
Environmental Program Specialist – 1

ec: Erik Wagner – Lakefront Boulevard, LLC
Paul Ciminelli – Lakefront Boulevard, LLC

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) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 0-50

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

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 passes a size 100 sieve? no

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:

One discrete sample were collected for VOCs, one composite for PFAS and one composite analyzed for metals, herbicides, pesticides, PCBs, and SVOCs.

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):

Sample results are compared to Restricted Residential Use SCOs.

All parameters are below allowable limits for the site.

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:

C.J. Krantz Organics

Location where fill was obtained:

8960 Lapp Road, Clarence Center, NY 14032

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

NA

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

Provide a list of supporting documentation included with this request:

1. Sample results
2. Summary table

The information provided on this form is accurate and complete.

Signature

11/13/2023

Date

Cody Martin

Print Name

C&S Engineers, Inc.

Firm

ANALYTICAL REPORT

Lab Number:	L2363965
Client:	C&S Companies 141 Elm Street, Suite 100 Buffalo, NY 14203
ATTN:	Cody Martin
Phone:	(716) 847-1630
Project Name:	240 LAKEFRONT BLVD
Project Number:	E62.022.009
Report Date:	11/13/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009

Lab Number: L2363965
Report Date: 11/13/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2363965-01	TS-01	SOIL	Not Specified	10/27/23 08:40	10/27/23

Project Name:	240 LAKEFRONT BLVD	**Lab Number:**	L2363965
Project Number:	E62.022.009	**Report Date:**	11/13/23

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:	240 LAKEFRONT BLVD	**Lab Number:**	L2363965
Project Number:	E62.022.009	**Report Date:**	11/13/23

Case Narrative (continued)

Report Submission

November 13, 2023: This final report includes the results of all requested analyses.

November 07, 2023: This is a preliminary report.

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

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.

Volatile Organics

The WG1849227-5 Method Blank, associated with L2363965-01, has a concentration above the reporting limit for bromomethane. Since the associated sample concentration is non-detect to the RL for this target analyte, no corrective action is required.

Total Metals

L2363965-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 11/13/23

ORGANICS

VOLATILES

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

SAMPLE RESULTS

Lab ID: L2363965-01
Client ID: TS-01
Sample Location: Not Specified
Date Collected: 10/27/23 08:40
Date Received: 10/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 11/06/23 16:58
Analyst: JIC
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	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	0.35	1
Tetrachloroethene	ND		ug/kg	0.65	0.26	1
Chlorobenzene	ND		ug/kg	0.65	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.91	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.21	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.22	1
Benzene	ND		ug/kg	0.65	0.22	1
Toluene	ND		ug/kg	1.3	0.71	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	0.76	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.59	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	ND		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1

Project Name: 240 LAKEFRONT BLVD **Lab Number:** L2363965

Project Number: E62.022.009 **Report Date:** 11/13/23

SAMPLE RESULTS

Lab ID: L2363965-01 Date Collected: 10/27/23 08:40

Client ID: TS-01 Date Received: 10/27/23

Sample Location: Not Specified 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	0.73	1
o-Xylene	ND		ug/kg	1.3	0.38	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	6.3	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	1.7	1
2-Hexanone	ND		ug/kg	13	1.5	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
tert-Butylbenzene	ND		ug/kg	2.6	0.15	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
Naphthalene	ND		ug/kg	5.2	0.85	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	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	0.44	1
Methyl Acetate	ND		ug/kg	5.2	1.2	1
Cyclohexane	ND		ug/kg	13	0.71	1
Freon-113	ND		ug/kg	5.2	0.90	1
Methyl cyclohexane	ND		ug/kg	5.2	0.79	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	117		70-130

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/06/23 09:16
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1849227-5					
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	2.2		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: 240 LAKEFRONT BLVD **Lab Number:** L2363965

Project Number: E62.022.009 **Report Date:** 11/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/06/23 09:16
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1849227-5					
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
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
tert-Butylbenzene	ND		ug/kg	2.0	0.12
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
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
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
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/06/23 09:16
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1849227-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009

Lab Number: L2363965
Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1849227-3 WG1849227-4								
Methylene chloride	103		100		70-130	3		30
1,1-Dichloroethane	94		91		70-130	3		30
Chloroform	97		95		70-130	2		30
Carbon tetrachloride	107		102		70-130	5		30
1,2-Dichloropropane	95		92		70-130	3		30
Dibromochloromethane	100		98		70-130	2		30
1,1,2-Trichloroethane	97		98		70-130	1		30
Tetrachloroethene	112		111		70-130	1		30
Chlorobenzene	99		98		70-130	1		30
Trichlorofluoromethane	118		109		70-139	8		30
1,2-Dichloroethane	95		93		70-130	2		30
1,1,1-Trichloroethane	104		101		70-130	3		30
Bromodichloromethane	101		97		70-130	4		30
trans-1,3-Dichloropropene	100		100		70-130	0		30
cis-1,3-Dichloropropene	104		101		70-130	3		30
Bromoform	93		92		70-130	1		30
1,1,2,2-Tetrachloroethane	89		88		70-130	1		30
Benzene	99		96		70-130	3		30
Toluene	98		98		70-130	0		30
Ethylbenzene	104		104		70-130	0		30
Chloromethane	88		84		52-130	5		30
Bromomethane	113		111		57-147	2		30
Vinyl chloride	108		98		67-130	10		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009

Lab Number: L2363965
Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1849227-3 WG1849227-4								
Chloroethane	106		97		50-151	9		30
1,1-Dichloroethene	112		109		65-135	3		30
trans-1,2-Dichloroethene	104		98		70-130	6		30
Trichloroethene	105		101		70-130	4		30
1,2-Dichlorobenzene	100		98		70-130	2		30
1,3-Dichlorobenzene	102		101		70-130	1		30
1,4-Dichlorobenzene	100		98		70-130	2		30
Methyl tert butyl ether	104		94		66-130	10		30
p/m-Xylene	108		109		70-130	1		30
o-Xylene	108		109		70-130	1		30
cis-1,2-Dichloroethene	99		96		70-130	3		30
Styrene	101		101		70-130	0		30
Dichlorodifluoromethane	104		100		30-146	4		30
Acetone	**144**	Q	138		54-140	4		30
Carbon disulfide	108		100		59-130	8		30
2-Butanone	81		79		70-130	3		30
4-Methyl-2-pentanone	94		91		70-130	3		30
2-Hexanone	81		82		70-130	1		30
1,2-Dibromoethane	102		101		70-130	1		30
n-Butylbenzene	110		108		70-130	2		30
sec-Butylbenzene	108		106		70-130	2		30
tert-Butylbenzene	103		101		70-130	2		30
1,2-Dibromo-3-chloropropane	95		93		68-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1849227-3 WG1849227-4								
Isopropylbenzene	89		88		70-130	1		30
p-Isopropyltoluene	95		93		70-130	2		30
Naphthalene	101		99		70-130	2		30
n-Propylbenzene	106		101		70-130	5		30
1,2,4-Trichlorobenzene	112		108		70-130	4		30
1,3,5-Trimethylbenzene	108		104		70-130	4		30
1,2,4-Trimethylbenzene	108		105		70-130	3		30
Methyl Acetate	116		96		51-146	19		30
Cyclohexane	104		101		59-142	3		30
Freon-113	118		112		50-139	5		30
Methyl cyclohexane	106		103		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
Toluene-d8	97		99		70-130
4-Bromofluorobenzene	100		94		70-130
Dibromofluoromethane	99		97		70-130

SEMIVOLATILES

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

SAMPLE RESULTS

Lab ID: L2363965-01
Client ID: TS-01
Sample Location: Not Specified

Date Collected: 10/27/23 08:40
Date Received: 10/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 11/01/23 05:56
Analyst: ALS
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/29/23 23:43

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	43.	1
2,6-Dinitrotoluene	ND		ug/kg	210	37.	1
Fluoranthene	52	J	ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	33.	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	35.	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	73.	1
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	28	J	ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1

Project Name: 240 LAKEFRONT BLVD **Lab Number:** L2363965

Project Number: E62.022.009 **Report Date:** 11/13/23

SAMPLE RESULTS

Lab ID: L2363965-01 Date Collected: 10/27/23 08:40

Client ID: TS-01 Date Received: 10/27/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	38	J	ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	31	J	ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	31	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	43	J	ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	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	71.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	87.	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	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	53	J	ug/kg	310	34.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	41.	1
Carbazole	ND		ug/kg	210	21.	1
Atrazine	ND		ug/kg	170	75.	1
Benzaldehyde	ND		ug/kg	280	58.	1

Project Name: 240 LAKEFRONT BLVD **Lab Number:** L2363965

Project Number: E62.022.009 **Report Date:** 11/13/23

SAMPLE RESULTS

Lab ID: L2363965-01 Date Collected: 10/27/23 08:40

Client ID: TS-01 Date Received: 10/27/23

Sample Location: Not Specified 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	63		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	56		10-136
4-Terphenyl-d14	54		18-120

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

SAMPLE RESULTS

Lab ID: L2363965-01
Client ID: TS-01
Sample Location: Not Specified

Date Collected: 10/27/23 08:40
Date Received: 10/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 144,1633
Analytical Date: 11/11/23 00:28
Analyst: AC
Percent Solids: 77%

Extraction Method: EPA 1633
Extraction Date: 11/01/23 09:15
Cleanup Method: EPA 1633
Cleanup Date: 11/01/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.132	J	ng/g	0.788	0.050	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.394	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.197	0.043	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.788	0.080	1
Perfluorohexanoic Acid (PFHxA)	0.053	J	ng/g	0.197	0.046	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.197	0.023	1
Perfluoroheptanoic Acid (PFHpA)	0.049	J	ng/g	0.197	0.023	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.197	0.058	1
Perfluorooctanoic Acid (PFOA)	0.236		ng/g	0.197	0.051	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.788	0.276	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.197	0.036	1
Perfluorononanoic Acid (PFNA)	0.089	J	ng/g	0.197	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	0.469		ng/g	0.197	0.078	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.197	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.788	0.381	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.197	0.042	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.197	0.098	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.197	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.197	0.032	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.197	0.043	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.197	0.081	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.197	0.040	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.197	0.052	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.197	0.105	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.788	0.097	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.788	0.144	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.197	0.038	1

Project Name: 240 LAKEFRONT BLVD **Lab Number:** L2363965

Project Number: E62.022.009 **Report Date:** 11/13/23

SAMPLE RESULTS

Lab ID: L2363965-01 Date Collected: 10/27/23 08:40

Client ID: TS-01 Date Received: 10/27/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.788	0.193	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.788	0.165	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.197	0.098	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.197	0.110	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.97	0.246	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.97	0.502	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.394	0.040	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.394	0.031	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.394	0.082	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.394	0.094	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.984	0.142	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.92	0.497	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.92	1.73	1

Project Name: 240 LAKEFRONT BLVD **Lab Number:** L2363965

Project Number: E62.022.009 **Report Date:** 11/13/23

SAMPLE RESULTS

Lab ID: L2363965-01 Date Collected: 10/27/23 08:40

Client ID: TS-01 Date Received: 10/27/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	80		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	75		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	77		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	69		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	80		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	74		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	87		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	81		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	78		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	79		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	77		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	86		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	100		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	60		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	90		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	71		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	69		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	82		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	77		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	77		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	54		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	55		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	67		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	63		20-150

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 11/01/23 03:17
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/29/23 19:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1845749-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
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	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 11/01/23 03:17
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/29/23 19:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1845749-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	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	16.
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	99	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	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 11/01/23 03:17
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/29/23 19:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1845749-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
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	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	72		18-120

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 11/10/23 23:50
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 11/01/23 09:15
Cleanup Method: EPA 1633
Cleanup Date: 11/01/23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01 Batch: WG1846606-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.800	0.050
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.400	0.056
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.200	0.043
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.800	0.081
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.200	0.046
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.200	0.023
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.200	0.023
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.200	0.059
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.200	0.052
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.800	0.280
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.200	0.037
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.200	0.078
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.200	0.079
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.200	0.075
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.800	0.387
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.200	0.042
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.200	0.100
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.200	0.051
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.200	0.032
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.200	0.043
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.200	0.082
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.200	0.041
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.200	0.053
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.200	0.106
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.800	0.098
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.800	0.146
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.200	0.038

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 11/10/23 23:50
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 11/01/23 09:15
Cleanup Method: EPA 1633
Cleanup Date: 11/01/23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01 Batch: WG1846606-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.800	0.196
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.800	0.167
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.200	0.100
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.200	0.112
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.00	0.250
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.00	0.510
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.400	0.041
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.400	0.031
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.400	0.083
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.400	0.095
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	1.00	0.144
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	5.00	0.505
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	5.00	1.76

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 11/10/23 23:50
Analyst: AC

Extraction Method: EPA 1633
Extraction Date: 11/01/23 09:15
Cleanup Method: EPA 1633
Cleanup Date: 11/01/23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01 Batch: WG1846606-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	86		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	85		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	77		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	78		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	89		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	84		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	89		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	88		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	80		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	77		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	82		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	94		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	100		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	66		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	82		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	76		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	60		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	73		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	61		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	84		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	46		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	46		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	64		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	63		20-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009

Lab Number: L2363965
Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1845749-2 WG1845749-3								
Acenaphthene	67		64		31-137	5		50
Hexachlorobenzene	64		61		40-140	5		50
Bis(2-chloroethyl)ether	79		70		40-140	12		50
2-Chloronaphthalene	70		66		40-140	6		50
3,3'-Dichlorobenzidine	63		59		40-140	7		50
2,4-Dinitrotoluene	74		69		40-132	7		50
2,6-Dinitrotoluene	73		72		40-140	1		50
Fluoranthene	73		70		40-140	4		50
4-Chlorophenyl phenyl ether	67		63		40-140	6		50
4-Bromophenyl phenyl ether	65		63		40-140	3		50
Bis(2-chloroisopropyl)ether	98		89		40-140	10		50
Bis(2-chloroethoxy)methane	78		72		40-117	8		50
Hexachlorobutadiene	67		62		40-140	8		50
Hexachlorocyclopentadiene	62		57		40-140	8		50
Hexachloroethane	73		67		40-140	9		50
Isophorone	77		70		40-140	10		50
Naphthalene	73		66		40-140	10		50
Nitrobenzene	80		72		40-140	11		50
NDPA/DPA	71		67		36-157	6		50
n-Nitrosodi-n-propylamine	83		74		32-121	11		50
Bis(2-ethylhexyl)phthalate	85		80		40-140	6		50
Butyl benzyl phthalate	81		79		40-140	3		50
Di-n-butylphthalate	78		75		40-140	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E62.022.009

Lab Number: L2363965

Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1845749-2 WG1845749-3								
Di-n-octylphthalate	90		85		40-140	6		50
Diethyl phthalate	73		68		40-140	7		50
Dimethyl phthalate	70		69		40-140	1		50
Benzo(a)anthracene	72		69		40-140	4		50
Benzo(a)pyrene	73		68		40-140	7		50
Benzo(b)fluoranthene	70		66		40-140	6		50
Benzo(k)fluoranthene	72		68		40-140	6		50
Chrysene	74		70		40-140	6		50
Acenaphthylene	68		66		40-140	3		50
Anthracene	72		69		40-140	4		50
Benzo(ghi)perylene	72		67		40-140	7		50
Fluorene	70		66		40-140	6		50
Phenanthrene	71		68		40-140	4		50
Dibenzo(a,h)anthracene	74		70		40-140	6		50
Indeno(1,2,3-cd)pyrene	82		76		40-140	8		50
Pyrene	72		70		35-142	3		50
Biphenyl	69		66		37-127	4		50
4-Chloroaniline	72		66		40-140	9		50
2-Nitroaniline	77		74		47-134	4		50
3-Nitroaniline	58		60		26-129	3		50
4-Nitroaniline	73		71		41-125	3		50
Dibenzofuran	69		66		40-140	4		50
2-Methylnaphthalene	73		68		40-140	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1845749-2 WG1845749-3								
1,2,4,5-Tetrachlorobenzene	67		63		40-117	6		50
Acetophenone	74		67		14-144	10		50
2,4,6-Trichlorophenol	73		71		30-130	3		50
p-Chloro-m-cresol	80		76		26-103	5		50
2-Chlorophenol	81		73		25-102	10		50
2,4-Dichlorophenol	79		73		30-130	8		50
2,4-Dimethylphenol	64		60		30-130	6		50
2-Nitrophenol	81		70		30-130	15		50
4-Nitrophenol	86		82		11-114	5		50
2,4-Dinitrophenol	43		36		4-130	18		50
4,6-Dinitro-o-cresol	77		74		10-130	4		50
Pentachlorophenol	69		64		17-109	8		50
Phenol	81		74		26-90	9		50
2-Methylphenol	78		71		30-130.	9		50
3-Methylphenol/4-Methylphenol	78		73		30-130	7		50
2,4,5-Trichlorophenol	74		71		30-130	4		50
Carbazole	73		71		54-128	3		50
Atrazine	73		74		40-140	1		50
Benzaldehyde	97		89		40-140	9		50
Caprolactam	96		92		15-130	4		50
2,3,4,6-Tetrachlorophenol	69		66		40-140	4		50
1,4-Dioxane	56		53		40-140	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E62.022.009

Lab Number: L2363965

Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1845749-2 WG1845749-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	78		71		25-120
Phenol-d6	77		72		10-120
Nitrobenzene-d5	73		66		23-120
2-Fluorobiphenyl	65		62		30-120
2,4,6-Tribromophenol	65		64		10-136
4-Terphenyl-d14	65		64		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1846606-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	98		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	105		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	93		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	130		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	96		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	100		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	104		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	108		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	93		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	92		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	93		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	116		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	131		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	108		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	112		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	94		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	104		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	97		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	85		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	90		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	92		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	104		-		40-150	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1846606-2 LOW LEVEL								
Perfluorotridecanoic Acid (PFTrDA)	92		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	104		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	94		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	97		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	73		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	108		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	97		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	98		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	97		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	100		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	110		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	121		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	95		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	98		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	84		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	89		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	86		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	69		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E62.022.009

Lab Number: L2363965

Report Date: 11/13/23

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1846606-2 LOW LEVEL								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	84				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	94				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	99				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	65				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	105				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	89				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	79				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	82				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	76				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	80				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	83				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	77				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	85				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	70				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	78				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	77				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	68				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	68				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	58				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	97				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	52				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	46				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	68				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	65				20-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1846606-3								
Perfluorobutanoic Acid (PFBA)	95		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	91		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	97		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	95		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	87		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	100		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	98		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	92		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	91		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	100		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	79		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	102		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	94		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	94		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	98		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	89		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	88		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	101		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	78		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	94		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	83		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	87		-		40-150	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1846606-3								
Perfluorotridecanoic Acid (PFTrDA)	76		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	94		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	96		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	94		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	68		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	112		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	89		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	100		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	95		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	103		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	108		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	111		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	98		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	94		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	67		-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	92		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	84		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	71		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E62.022.009

Lab Number: L2363965

Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1846606-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	78				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	81				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	83				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	69				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	84				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	76				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	79				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	84				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	73				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	85				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	86				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	81				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	78				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	72				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	78				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	79				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	76				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	72				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	54				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	81				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	54				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	49				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	68				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	67				20-150

PCBS

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

SAMPLE RESULTS

Lab ID: L2363965-01
Client ID: TS-01
Sample Location: Not Specified

Date Collected: 10/27/23 08:40
Date Received: 10/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/30/23 16:46
Analyst: MEO
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/29/23 16:46
Cleanup Method: EPA 3665A
Cleanup Date: 10/30/23
Cleanup Method: EPA 3660B
Cleanup Date: 10/30/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	63.8	5.67	1	A
Aroclor 1221	ND		ug/kg	63.8	6.40	1	A
Aroclor 1232	ND		ug/kg	63.8	13.5	1	A
Aroclor 1242	ND		ug/kg	63.8	8.61	1	A
Aroclor 1248	ND		ug/kg	63.8	9.58	1	A
Aroclor 1254	ND		ug/kg	63.8	6.98	1	A
Aroclor 1260	ND		ug/kg	63.8	11.8	1	B
Aroclor 1262	ND		ug/kg	63.8	8.11	1	A
Aroclor 1268	ND		ug/kg	63.8	6.62	1	A
PCBs, Total	ND		ug/kg	63.8	5.67	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	38		30-150	B

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/30/23 14:57
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 10/29/23 16:46
Cleanup Method: EPA 3665A
Cleanup Date: 10/30/23
Cleanup Method: EPA 3660B
Cleanup Date: 10/30/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1845709-1						
Aroclor 1016	ND		ug/kg	46.5	4.13	A
Aroclor 1221	ND		ug/kg	46.5	4.66	A
Aroclor 1232	ND		ug/kg	46.5	9.85	A
Aroclor 1242	ND		ug/kg	46.5	6.26	A
Aroclor 1248	ND		ug/kg	46.5	6.97	A
Aroclor 1254	ND		ug/kg	46.5	5.08	A
Aroclor 1260	ND		ug/kg	46.5	8.59	A
Aroclor 1262	ND		ug/kg	46.5	5.90	A
Aroclor 1268	ND		ug/kg	46.5	4.81	A
PCBs, Total	ND		ug/kg	46.5	4.13	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	68		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E62.022.009

Lab Number: L2363965

Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1845709-2 WG1845709-3									
Aroclor 1016	82		77		40-140	6		50	A
Aroclor 1260	87		80		40-140	8		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		78		30-150	A
Decachlorobiphenyl	87		86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		73		30-150	B
Decachlorobiphenyl	69		67		30-150	B

PESTICIDES

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

SAMPLE RESULTS

Lab ID: L2363965-01
Client ID: TS-01
Sample Location: Not Specified

Date Collected: 10/27/23 08:40
Date Received: 10/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/31/23 10:55
Analyst: MMG
Percent Solids: 77%

Extraction Method: EPA 3546
Extraction Date: 10/29/23 19:35
Cleanup Method: EPA 3620B
Cleanup Date: 10/30/23
Cleanup Method: EPA 3660B
Cleanup Date: 10/30/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.94	0.381	1	A
Lindane	ND		ug/kg	0.810	0.362	1	A
Alpha-BHC	ND		ug/kg	0.810	0.230	1	A
Beta-BHC	ND		ug/kg	1.94	0.738	1	A
Heptachlor	ND		ug/kg	0.973	0.436	1	A
Aldrin	ND		ug/kg	1.94	0.685	1	A
Heptachlor epoxide	ND		ug/kg	3.65	1.09	1	A
Endrin	ND		ug/kg	0.810	0.332	1	A
Endrin aldehyde	ND		ug/kg	2.43	0.851	1	A
Endrin ketone	ND		ug/kg	1.94	0.501	1	A
Dieldrin	ND		ug/kg	1.22	0.608	1	A
4,4'-DDE	0.912	J	ug/kg	1.94	0.450	1	A
4,4'-DDD	ND		ug/kg	1.94	0.694	1	A
4,4'-DDT	ND		ug/kg	1.94	1.56	1	A
Endosulfan I	ND		ug/kg	1.94	0.460	1	A
Endosulfan II	ND		ug/kg	1.94	0.650	1	A
Endosulfan sulfate	ND		ug/kg	0.810	0.386	1	A
Methoxychlor	ND		ug/kg	3.65	1.13	1	A
Toxaphene	ND		ug/kg	36.5	10.2	1	A
cis-Chlordane	ND		ug/kg	2.43	0.678	1	A
trans-Chlordane	ND		ug/kg	2.43	0.642	1	A
Chlordane	ND		ug/kg	16.2	6.44	1	A

Project Name: 240 LAKEFRONT BLVD
Lab Number: L2363965
Project Number: E62.022.009
Report Date: 11/13/23

SAMPLE RESULTS

Lab ID: L2363965-01
Client ID: TS-01
Sample Location: Not Specified
Date Collected: 10/27/23 08:40
Date Received: 10/27/23
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	69		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: 240 LAKEFRONT BLVD
Lab Number: L2363965
Project Number: E62.022.009
Report Date: 11/13/23

SAMPLE RESULTS

Lab ID: L2363965-01
Client ID: TS-01
Sample Location: Not Specified

Date Collected: 10/27/23 08:40
Date Received: 10/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/31/23 21:49
Analyst: AKM
Percent Solids: 77%
Methylation Date: 10/31/23 06:01

Extraction Method: EPA 8151A
Extraction Date: 10/30/23 18:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	212	13.4	1	A
2,4,5-T	ND		ug/kg	212	6.59	1	A
2,4,5-TP (Silvex)	ND		ug/kg	212	5.65	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	118		30-150	A
DCAA	103		30-150	B

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/31/23 10:05
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 10/29/23 18:50
Cleanup Method: EPA 3620B
Cleanup Date: 10/30/23
Cleanup Method: EPA 3660B
Cleanup Date: 10/30/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1845735-1						
Delta-BHC	ND		ug/kg	1.58	0.309	A
Lindane	ND		ug/kg	0.658	0.294	A
Alpha-BHC	ND		ug/kg	0.658	0.187	A
Beta-BHC	ND		ug/kg	1.58	0.599	A
Heptachlor	ND		ug/kg	0.789	0.354	A
Aldrin	ND		ug/kg	1.58	0.556	A
Heptachlor epoxide	ND		ug/kg	2.96	0.888	A
Endrin	ND		ug/kg	0.658	0.270	A
Endrin aldehyde	ND		ug/kg	1.97	0.691	A
Endrin ketone	ND		ug/kg	1.58	0.406	A
Dieldrin	ND		ug/kg	0.987	0.493	A
4,4'-DDE	ND		ug/kg	1.58	0.365	A
4,4'-DDD	ND		ug/kg	1.58	0.563	A
4,4'-DDT	ND		ug/kg	1.58	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.373	A
Endosulfan II	ND		ug/kg	1.58	0.528	A
Endosulfan sulfate	ND		ug/kg	0.658	0.313	A
Methoxychlor	ND		ug/kg	2.96	0.921	A
Toxaphene	ND		ug/kg	29.6	8.29	A
cis-Chlordane	ND		ug/kg	1.97	0.550	A
trans-Chlordane	ND		ug/kg	1.97	0.521	A
Chlordane	ND		ug/kg	13.2	5.23	A

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/31/23 10:05
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 10/29/23 18:50
Cleanup Method: EPA 3620B
Cleanup Date: 10/30/23
Cleanup Method: EPA 3660B
Cleanup Date: 10/30/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1845735-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 10/31/23 20:54
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 10/30/23 18:02

Methylation Date: 10/31/23 06:01

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1846132-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.08	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.36	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	98		30-150	A
DCAA	101		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009

Lab Number: L2363965
Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1845735-2 WG1845735-3									
Delta-BHC	78		64		30-150	20		30	A
Lindane	73		61		30-150	18		30	A
Alpha-BHC	77		64		30-150	18		30	A
Beta-BHC	84		70		30-150	18		30	A
Heptachlor	69		60		30-150	14		30	A
Aldrin	73		62		30-150	16		30	A
Heptachlor epoxide	65		55		30-150	17		30	A
Endrin	70		58		30-150	19		30	A
Endrin aldehyde	65		52		30-150	22		30	A
Endrin ketone	73		59		30-150	21		30	A
Dieldrin	80		65		30-150	21		30	A
4,4'-DDE	76		63		30-150	19		30	A
4,4'-DDD	78		64		30-150	20		30	A
4,4'-DDT	70		58		30-150	19		30	A
Endosulfan I	72		60		30-150	18		30	A
Endosulfan II	73		60		30-150	20		30	A
Endosulfan sulfate	66		54		30-150	20		30	A
Methoxychlor	67		57		30-150	16		30	A
cis-Chlordane	69		58		30-150	17		30	A
trans-Chlordane	79		68		30-150	15		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1845735-2 WG1845735-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		62		30-150	A
Decachlorobiphenyl	68		55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		72		30-150	B
Decachlorobiphenyl	77		62		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E62.022.009

Lab Number: L2363965

Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1846132-2 WG1846132-3									
2,4-D	104		106		30-150	2		30	A
2,4,5-T	113		114		30-150	1		30	A
2,4,5-TP (Silvex)	109		110		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	99		102		30-150	A
DCAA	98		103		30-150	B

METALS

Project Name: 240 LAKEFRONT BLVD
Lab Number: L2363965
Project Number: E62.022.009
Report Date: 11/13/23

SAMPLE RESULTS

Lab ID: L2363965-01
Client ID: TS-01
Sample Location: Not Specified
Date Collected: 10/27/23 08:40
Date Received: 10/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	14200		mg/kg	9.82	2.65	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Antimony, Total	ND		mg/kg	4.91	0.373	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Arsenic, Total	6.86		mg/kg	0.982	0.204	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Barium, Total	103		mg/kg	0.982	0.171	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Beryllium, Total	0.686		mg/kg	0.491	0.032	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Cadmium, Total	0.312	J	mg/kg	0.982	0.096	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Calcium, Total	3520		mg/kg	9.82	3.44	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Chromium, Total	18.2		mg/kg	0.982	0.094	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Cobalt, Total	11.0		mg/kg	1.96	0.163	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Copper, Total	11.4		mg/kg	0.982	0.253	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Iron, Total	23700		mg/kg	4.91	0.886	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Lead, Total	23.4		mg/kg	4.91	0.263	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Magnesium, Total	3980		mg/kg	9.82	1.51	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Manganese, Total	508		mg/kg	0.982	0.156	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Mercury, Total	0.071	J	mg/kg	0.091	0.059	1	10/31/23 02:57	11/03/23 20:34	EPA 7471B	1,7471B	MJR
Nickel, Total	18.0		mg/kg	2.45	0.238	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Potassium, Total	948		mg/kg	245	14.1	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Selenium, Total	0.318	J	mg/kg	1.96	0.253	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Silver, Total	ND		mg/kg	0.491	0.278	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Sodium, Total	53.9	J	mg/kg	196	3.09	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Thallium, Total	0.490	J	mg/kg	1.96	0.309	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Vanadium, Total	26.9		mg/kg	0.982	0.199	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM
Zinc, Total	77.4		mg/kg	4.91	0.288	2	10/31/23 02:30	11/03/23 23:10	EPA 3050B	1,6010D	MAM

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

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 Batch: WG1846104-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Antimony, Total	0.371	J	mg/kg	2.00	0.152	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Arsenic, Total	ND		mg/kg	0.400	0.083	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Barium, Total	ND		mg/kg	0.400	0.070	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Beryllium, Total	ND		mg/kg	0.200	0.013	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.400	0.039	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Calcium, Total	ND		mg/kg	4.00	1.40	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Chromium, Total	ND		mg/kg	0.400	0.038	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Cobalt, Total	ND		mg/kg	0.800	0.066	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Copper, Total	ND		mg/kg	0.400	0.103	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Iron, Total	1.04	J	mg/kg	2.00	0.361	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Lead, Total	ND		mg/kg	2.00	0.107	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Magnesium, Total	ND		mg/kg	4.00	0.616	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Manganese, Total	ND		mg/kg	0.400	0.064	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Nickel, Total	ND		mg/kg	1.00	0.097	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Potassium, Total	ND		mg/kg	100	5.76	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Selenium, Total	ND		mg/kg	0.800	0.103	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Silver, Total	ND		mg/kg	0.200	0.113	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Sodium, Total	ND		mg/kg	80.0	1.26	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Thallium, Total	ND		mg/kg	0.800	0.126	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Vanadium, Total	ND		mg/kg	0.400	0.081	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF
Zinc, Total	ND		mg/kg	2.00	0.117	1	10/31/23 02:30	10/31/23 07:57	1,6010D	JMF

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 Batch: WG1846106-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/31/23 02:57	10/31/23 20:12	1,7471B	GMG

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E62.022.009

Lab Number: L2363965

Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1846104-2 SRM Lot Number: D119-540								
Aluminum, Total	77		-		48-152	-		
Antimony, Total	181		-		10-190	-		
Arsenic, Total	98		-		83-117	-		
Barium, Total	94		-		82-118	-		
Beryllium, Total	99		-		83-117	-		
Cadmium, Total	100		-		82-117	-		
Calcium, Total	94		-		81-118	-		
Chromium, Total	100		-		82-119	-		
Cobalt, Total	98		-		83-117	-		
Copper, Total	98		-		84-116	-		
Iron, Total	99		-		60-140	-		
Lead, Total	97		-		82-118	-		
Magnesium, Total	89		-		76-124	-		
Manganese, Total	96		-		82-118	-		
Nickel, Total	99		-		82-117	-		
Potassium, Total	87		-		70-130	-		
Selenium, Total	99		-		79-121	-		
Silver, Total	96		-		80-120	-		
Sodium, Total	101		-		74-126	-		
Thallium, Total	100		-		81-119	-		
Vanadium, Total	95		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E62.022.009

Lab Number: L2363965

Report Date: 11/13/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1846104-2 SRM Lot Number: D119-540					
Zinc, Total	100	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1846106-2 SRM Lot Number: D119-540					
Mercury, Total	88	-	73-127	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009

Lab Number: L2363965
Report Date: 11/13/23

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 QC Batch ID: WG1846104-3 QC Sample: L2364340-01 Client ID: MS Sample												
Aluminum, Total	9170	184	11200	**1100**	Q	-	-		75-125	-		20
Antimony, Total	17.1	46	77.3	**131**	Q	-	-		75-125	-		20
Arsenic, Total	25.6	11	39.3	124		-	-		75-125	-		20
Barium, Total	193	184	386	105		-	-		75-125	-		20
Beryllium, Total	0.757	4.6	5.23	97		-	-		75-125	-		20
Cadmium, Total	0.563	4.87	4.71	85		-	-		75-125	-		20
Calcium, Total	3410	920	4040	**68**	Q	-	-		75-125	-		20
Chromium, Total	13.9	18.4	32.3	100		-	-		75-125	-		20
Cobalt, Total	3.98	46	44.9	89		-	-		75-125	-		20
Copper, Total	48.8	23	66.6	77		-	-		75-125	-		20
Iron, Total	22500	92	24800	**2500**	Q	-	-		75-125	-		20
Lead, Total	769	48.7	1130	**741**	Q	-	-		75-125	-		20
Magnesium, Total	1330	920	2340	110		-	-		75-125	-		20
Manganese, Total	111	46	157	100		-	-		75-125	-		20
Nickel, Total	15.8	46	57.1	90		-	-		75-125	-		20
Potassium, Total	1270	920	2300	112		-	-		75-125	-		20
Selenium, Total	1.08	11	12.3	102		-	-		75-125	-		20
Silver, Total	0.147J	4.6	4.60	100		-	-		75-125	-		20
Sodium, Total	113	920	1020	99		-	-		75-125	-		20
Thallium, Total	0.711J	11	10.3	93		-	-		75-125	-		20
Vanadium, Total	23.8	46	68.7	98		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009

Lab Number: L2363965
Report Date: 11/13/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1846104-3 QC Sample: L2364340-01 Client ID: MS Sample									
Zinc, Total	71.8	46	116	96	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1846106-3 QC Sample: L2364171-11 Client ID: MS Sample									
Mercury, Total	0.290	1.61	1.97	104	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E62.022.009

Lab Number: L2363965

Report Date: 11/13/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1846104-4 QC Sample: L2364340-01 Client ID: DUP Sample						
Lead, Total	769	639	mg/kg	18		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1846106-4 QC Sample: L2364171-11 Client ID: DUP Sample						
Mercury, Total	0.290	0.475	mg/kg	**48**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009

Lab Number: L2363965
Report Date: 11/13/23

SAMPLE RESULTS

Lab ID: L2363965-01
Client ID: TS-01
Sample Location: Not Specified

Date Collected: 10/27/23 08:40
Date Received: 10/27/23
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	77.3		%	0.100	NA	1	-	10/30/23 23:38	121,2540G	WJM
Cyanide, Total	ND		mg/kg	1.2	0.26	1	11/02/23 11:30	11/02/23 15:24	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	1.03	0.207	1	11/01/23 09:45	11/07/23 10:30	1,7196A	DTH

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

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 Batch: WG1847390-1										
Cyanide, Total	ND		mg/kg	0.91	0.19	1	11/02/23 11:30	11/02/23 15:20	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1847461-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	11/01/23 09:45	11/07/23 10:30	1,7196A	DTH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E62.022.009

Lab Number: L2363965

Report Date: 11/13/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1847390-2 WG1847390-3								
Cyanide, Total	91		101		80-120	13		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1847461-2								
Chromium, Hexavalent	82		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009

Lab Number: L2363965
Report Date: 11/13/23

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 QC Batch ID: WG1847390-4 WG1847390-5 QC Sample: L2364804-01 Client ID: MS Sample												
Cyanide, Total	ND	10	11	110		9.3	94		75-125	17		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1847461-4 QC Sample: L2363965-01 Client ID: TS-01												
Chromium, Hexavalent	ND	1180	1250	106		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E62.022.009

Lab Number: L2363965

Report Date: 11/13/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1846182-1 QC Sample: L2363965-01 Client ID: TS-01						
Solids, Total	77.3	76.9	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1847461-6 QC Sample: L2363965-01 Client ID: TS-01						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009

Lab Number: L2363965
Report Date: 11/13/23

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(*)
L2363965-01A	Vial Large Septa unpreserved (4oz)	A	NA		2.7	Y	Absent		NYTCL-8260-R2(14)
L2363965-01B	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2363965-01C	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2363965-01D	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2363965-01E	Plastic 8oz unpreserved	A	NA		2.7	Y	Absent		A2-1633-DRAFT(90)
L2363965-01F	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2363965-01X	Vial MeOH preserved split	A	NA		2.7	Y	Absent		NYTCL-8260-R2(14)
L2363965-01Y	Vial Water preserved split	A	NA		2.7	Y	Absent	**02-NOV-23 12:35**	NYTCL-8260-R2(14)
L2363965-01Z	Vial Water preserved split	A	NA		2.7	Y	Absent	**02-NOV-23 12:35**	NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

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/PFTeDA	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/PFDoS	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
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
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/PFOSA	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: 240 LAKEFRONT BLVD
Project Number: E62.022.009
Lab Number: L2363965
Report Date: 11/13/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name:	240 LAKEFRONT BLVD	**Lab Number:**	L2363965
Project Number:	E62.022.009	**Report Date:**	11/13/23

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:	240 LAKEFRONT BLVD	**Lab Number:**	L2363965
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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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

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.

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.)

Project Name:	240 LAKEFRONT BLVD	**Lab Number:**	L2363965
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REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

144 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS. Draft EPA Method 1633, EPA Document 821-D-22-001, June 2022.

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 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 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 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 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).
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 ANALYTICAL

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 1

Date Rec'd in Lab: 10/28/23

ALPHA Job #: L2363965

Client Information
Client: C&S Engineers
Address: 14 Ellicott St Buffalo, NY
Phone:
Fax:
Email:

Project Information
Project Name: 240 Lakefront Blvd
Project Location:
Project #: E62.022.007
(Use Project name as Project #)
Project Manager: Cody Martin
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved): X PFAS
Due Date:
# of Days: 10-days

Deliverables
X ASP-A
ASP-B
EQuIS (1 File)
EQuIS (4 File)
Other

Billing Information
X Same as Client Info
PO #

Regulatory Requirement
NY TOGS
AWQ Standards
NY Restricted Use
NY Unrestricted Use
NYC Sewer Discharge
X NY Part 375
NY CP-51
Other

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
NJ
X 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)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOC	TCL SVOC	PFAA 1633	1,4-dioxane SIM	Herbicides	TCL Pest	Cr, Hex Cr	TAL PCB/TAL Metals	Sample Specific Comments	Total Bottle
63965-01	TS-01	10/27/23	8:40	SO	CM	X	X	X	X	X	X	X	X	~~Standard~~ Standard TAT except for PFAS- rush 10 days	16

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	A	A	P	A	A	A	A	A
	Preservative	A	A	A	A	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	10/27/23 12:30		10/27 1230
	10/27 1502		10/28/23 0030

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)

LOCATION					**TS-01**	
SAMPLING DATE					**10/27/2023**	
LAB SAMPLE ID					**L2363965-01**	
SAMPLE TYPE					**SOIL**	
SAMPLE DEPTH (ft.)						
		CasNum	**NY-DER1(**	**Units**	**Results**	**RL**
Chlorinated Herbicides by GC						
	2,4-D	94-75-7		mg/kg	ND	0.212
	2,4,5-T	93-76-5		mg/kg	ND	0.212
	2,4,5-TP (Silvex)	93-72-1	3.8	mg/kg	ND	0.212
General Chemistry						
	Solids, Total	NONE		%	77.3	0.1
	Cyanide, Total	57-12-5	27	mg/kg	ND	1.2
	Chromium, Hexavalent	18540-29-9	19	mg/kg	ND	1.03
Organochlorine Pesticides by GC						
	Delta-BHC	319-86-8	0.25	mg/kg	ND	0.00194
	Lindane	58-89-9	0.1	mg/kg	ND	0.00081
	Alpha-BHC	319-84-6	0.02	mg/kg	ND	0.00081
	Beta-BHC	319-85-7	0.09	mg/kg	ND	0.00194
	Heptachlor	76-44-8	0.38	mg/kg	ND	0.000973
	Aldrin	309-00-2	0.097	mg/kg	ND	0.00194
	Heptachlor epoxide	1024-57-3		mg/kg	ND	0.00365
	Endrin	72-20-8	0.06	mg/kg	ND	0.00081
	Endrin aldehyde	7421-93-4		mg/kg	ND	0.00243
	Endrin ketone	53494-70-5		mg/kg	ND	0.00194
	Dieldrin	60-57-1	0.1	mg/kg	ND	0.00122
	4,4'-DDE	72-55-9	8.9	mg/kg	0.000912J	0.00194
	4,4'-DDD	72-54-8	13	mg/kg	ND	0.00194
	4,4'-DDT	50-29-3	7.9	mg/kg	ND	0.00194
	Endosulfan I	959-98-8	24	mg/kg	ND	0.00194
	Endosulfan II	33213-65-9	24	mg/kg	ND	0.00194
	Endosulfan sulfate	1031-07-8	24	mg/kg	ND	0.00081
	Methoxychlor	72-43-5		mg/kg	ND	0.00365
	Toxaphene	8001-35-2		mg/kg	ND	0.0365
	cis-Chlordane	5103-71-9	2.9	mg/kg	ND	0.00243
	trans-Chlordane	5103-74-2		mg/kg	ND	0.00243
	Chlordane	57-74-9		mg/kg	ND	0.0162
Polychlorinated Biphenyls by GC						
	Aroclor 1016	12674-11-2	1	mg/kg	ND	0.0638
	Aroclor 1221	11104-28-2	1	mg/kg	ND	0.0638
	Aroclor 1232	11141-16-5	1	mg/kg	ND	0.0638
	Aroclor 1242	53469-21-9	1	mg/kg	ND	0.0638
	Aroclor 1248	12672-29-6	1	mg/kg	ND	0.0638
	Aroclor 1254	11097-69-1	1	mg/kg	ND	0.0638
	Aroclor 1260	11096-82-5	1	mg/kg	ND	0.0638
	Aroclor 1262	37324-23-5	1	mg/kg	ND	0.0638
	Aroclor 1268	11100-14-4	1	mg/kg	ND	0.0638
	PCBs, Total	1336-36-3	1	mg/kg	ND	0.0638
Semivolatile Organics by GC/MS						
	Acenaphthene	83-32-9	98	mg/kg	ND	0.17
	Hexachlorobenzene	118-74-1	1.2	mg/kg	ND	0.13
	Bis(2-chloroethyl)ether	111-44-4		mg/kg	ND	0.19
	2-Chloronaphthalene	91-58-7		mg/kg	ND	0.21
	3,3'-Dichlorobenzidine	91-94-1		mg/kg	ND	0.21
	2,4-Dinitrotoluene	121-14-2		mg/kg	ND	0.21
	2,6-Dinitrotoluene	606-20-2		mg/kg	ND	0.21
	Fluoranthene	206-44-0	100	mg/kg	0.052J	0.13
	4-Chlorophenyl phenyl ether	7005-72-3		mg/kg	ND	0.21
	4-Bromophenyl phenyl ether	101-55-3		mg/kg	ND	0.21
	Bis(2-chloroisopropyl)ether	108-60-1		mg/kg	ND	0.26
	Bis(2-chloroethoxy)methane	111-91-1		mg/kg	ND	0.23
	Hexachlorobutadiene	87-68-3		mg/kg	ND	0.21
	Hexachlorocyclopentadiene	77-47-4		mg/kg	ND	0.61
	Hexachloroethane	67-72-1		mg/kg	ND	0.17
	Isophorone	78-59-1		mg/kg	ND	0.19
	Naphthalene	91-20-3	12	mg/kg	ND	0.21
	Nitrobenzene	98-95-3		mg/kg	ND	0.19
	NDPA/DPA	86-30-6		mg/kg	ND	0.17
	n-Nitrosodi-n-propylamine	621-64-7		mg/kg	ND	0.21
	Bis(2-ethylhexyl)phthalate	117-81-7		mg/kg	ND	0.21
	Butyl benzyl phthalate	85-68-7		mg/kg	ND	0.21
	Di-n-butylphthalate	84-74-2		mg/kg	ND	0.21
	Di-n-octylphthalate	117-84-0		mg/kg	ND	0.21
	Diethyl phthalate	84-66-2		mg/kg	ND	0.21
	Dimethyl phthalate	131-11-3		mg/kg	ND	0.21
	Benzo(a)anthracene	56-55-3	1	mg/kg	0.028J	0.13
	Benzo(a)pyrene	50-32-8	1	mg/kg	ND	0.17
	Benzo(b)fluoranthene	205-99-2	1	mg/kg	0.038J	0.13
	Benzo(k)fluoranthene	207-08-9	1.7	mg/kg	ND	0.13
	Chrysene	218-01-9	1	mg/kg	0.031J	0.13
	Acenaphthylene	208-96-8	100	mg/kg	ND	0.17
	Anthracene	120-12-7	100	mg/kg	ND	0.13
	Benzo(ghi)perylene	191-24-2	100	mg/kg	ND	0.17
	Fluorene	86-73-7	100	mg/kg	ND	0.21
	Phenanthrene	85-01-8	100	mg/kg	0.031J	0.13
	Dibenzo(a,h)anthracene	53-70-3	0.33	mg/kg	ND	0.13
	Indeno(1,2,3-cd)pyrene	193-39-5	0.5	mg/kg	ND	0.17

	Pyrene	129-00-0	100	mg/kg	0.043J	0.13
	Biphenyl	92-52-4		mg/kg	ND	0.49
	4-Chloroaniline	106-47-8		mg/kg	ND	0.21
	2-Nitroaniline	88-74-4		mg/kg	ND	0.21
	3-Nitroaniline	99-09-2		mg/kg	ND	0.21
	4-Nitroaniline	100-01-6		mg/kg	ND	0.21
	Dibenzofuran	132-64-9	59	mg/kg	ND	0.21
	2-Methylnaphthalene	91-57-6		mg/kg	ND	0.26
	1,2,4,5-Tetrachlorobenzene	95-94-3		mg/kg	ND	0.21
	Acetophenone	98-86-2		mg/kg	ND	0.21
	2,4,6-Trichlorophenol	88-06-2		mg/kg	ND	0.13
	p-Chloro-m-cresol	59-50-7		mg/kg	ND	0.21
	2-Chlorophenol	95-57-8		mg/kg	ND	0.21
	2,4-Dichlorophenol	120-83-2		mg/kg	ND	0.19
	2,4-Dimethylphenol	105-67-9		mg/kg	ND	0.21
	2-Nitrophenol	88-75-5		mg/kg	ND	0.46
	4-Nitrophenol	100-02-7		mg/kg	ND	0.3
	2,4-Dinitrophenol	51-28-5		mg/kg	ND	1
	4,6-Dinitro-o-cresol	534-52-1		mg/kg	ND	0.56
	Pentachlorophenol	87-86-5	0.8	mg/kg	ND	0.17
	Phenol	108-95-2	0.33	mg/kg	ND	0.21
	2-Methylphenol	95-48-7	0.33	mg/kg	ND	0.21
	3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	0.33	mg/kg	0.053J	0.31
	2,4,5-Trichlorophenol	95-95-4		mg/kg	ND	0.21
	Carbazole	86-74-8		mg/kg	ND	0.21
	Atrazine	1912-24-9		mg/kg	ND	0.17
	Benzaldehyde	100-52-7		mg/kg	ND	0.28
	Caprolactam	105-60-2		mg/kg	ND	0.21
	2,3,4,6-Tetrachlorophenol	58-90-2		mg/kg	ND	0.21
	1,4-Dioxane	123-91-1	0.1	mg/kg	ND	0.032
Total Metals						
	Aluminum, Total	7429-90-5		mg/kg	14200	9.82
	Antimony, Total	7440-36-0		mg/kg	ND	4.91
	Arsenic, Total	7440-38-2	16	mg/kg	6.86	0.982
	Barium, Total	7440-39-3	400	mg/kg	103	0.982
	Beryllium, Total	7440-41-7	47	mg/kg	0.686	0.491
	Cadmium, Total	7440-43-9	4.3	mg/kg	0.312J	0.982
	Calcium, Total	7440-70-2		mg/kg	3520	9.82
	Chromium, Total	7440-47-3		mg/kg	18.2	0.982
	Cobalt, Total	7440-48-4		mg/kg	11	1.96
	Copper, Total	7440-50-8	270	mg/kg	11.4	0.982
	Iron, Total	7439-89-6		mg/kg	23700	4.91
	Lead, Total	7439-92-1	400	mg/kg	23.4	4.91
	Magnesium, Total	7439-95-4		mg/kg	3980	9.82
	Manganese, Total	7439-96-5	2000	mg/kg	508	0.982
	Mercury, Total	7439-97-6	0.73	mg/kg	0.071J	0.091
	Nickel, Total	7440-02-0	130	mg/kg	18	2.45
	Potassium, Total	7440-09-7		mg/kg	948	245
	Selenium, Total	7782-49-2	4	mg/kg	0.318J	1.96
	Silver, Total	7440-22-4	8.3	mg/kg	ND	0.491
	Sodium, Total	7440-23-5		mg/kg	53.9J	196
	Thallium, Total	7440-28-0		mg/kg	0.49J	1.96
	Vanadium, Total	7440-62-2		mg/kg	26.9	0.982
	Zinc, Total	7440-66-6	2480	mg/kg	77.4	4.91
Volatile Organics by GC/MS						
	Methylene chloride	75-09-2	0.05	mg/kg	ND	0.0065
	1,1-Dichloroethane	75-34-3	0.27	mg/kg	ND	0.0013
	Chloroform	67-66-3	0.37	mg/kg	ND	0.002
	Carbon tetrachloride	56-23-5	0.76	mg/kg	ND	0.0013
	1,2-Dichloropropane	78-87-5		mg/kg	ND	0.0013
	Dibromochloromethane	124-48-1		mg/kg	ND	0.0013
	1,1,2-Trichloroethane	79-00-5		mg/kg	ND	0.0013
	Tetrachloroethene	127-18-4	1.3	mg/kg	ND	0.00065
	Chlorobenzene	108-90-7	1.1	mg/kg	ND	0.00065
	Trichlorofluoromethane	75-69-4		mg/kg	ND	0.0052
	1,2-Dichloroethane	107-06-2	0.02	mg/kg	ND	0.0013
	1,1,1-Trichloroethane	71-55-6	0.68	mg/kg	ND	0.00065
	Bromodichloromethane	75-27-4		mg/kg	ND	0.00065
	trans-1,3-Dichloropropene	10061-02-6		mg/kg	ND	0.0013
	cis-1,3-Dichloropropene	10061-01-5		mg/kg	ND	0.00065
	Bromoform	75-25-2		mg/kg	ND	0.0052
	1,1,2,2-Tetrachloroethane	79-34-5		mg/kg	ND	0.00065
	Benzene	71-43-2	0.06	mg/kg	ND	0.00065
	Toluene	108-88-3	0.7	mg/kg	ND	0.0013
	Ethylbenzene	100-41-4	1	mg/kg	ND	0.0013
	Chloromethane	74-87-3		mg/kg	ND	0.0052
	Bromomethane	74-83-9		mg/kg	ND	0.0026
	Vinyl chloride	75-01-4	0.02	mg/kg	ND	0.0013
	Chloroethane	75-00-3		mg/kg	ND	0.0026
	1,1-Dichloroethene	75-35-4	0.33	mg/kg	ND	0.0013
	trans-1,2-Dichloroethene	156-60-5	0.19	mg/kg	ND	0.002
	Trichloroethene	79-01-6	0.47	mg/kg	ND	0.00065
	1,2-Dichlorobenzene	95-50-1	1.1	mg/kg	ND	0.0026
	1,3-Dichlorobenzene	541-73-1	2.4	mg/kg	ND	0.0026
	1,4-Dichlorobenzene	106-46-7	1.8	mg/kg	ND	0.0026
	Methyl tert butyl ether	1634-04-4	0.93	mg/kg	ND	0.0026
	p/m-Xylene	179601-23-1		mg/kg	ND	0.0026
	o-Xylene	95-47-6		mg/kg	ND	0.0013
	cis-1,2-Dichloroethene	156-59-2	0.25	mg/kg	ND	0.0013
	Styrene	100-42-5		mg/kg	ND	0.0013

	Dichlorodifluoromethane	75-71-8		mg/kg	ND	0.013
	Acetone	67-64-1	0.05	mg/kg	ND	0.013
	Carbon disulfide	75-15-0		mg/kg	ND	0.013
	2-Butanone	78-93-3	0.12	mg/kg	ND	0.013
	4-Methyl-2-pentanone	108-10-1		mg/kg	ND	0.013
	2-Hexanone	591-78-6		mg/kg	ND	0.013
	1,2-Dibromoethane	106-93-4		mg/kg	ND	0.0013
	n-Butylbenzene	104-51-8	12	mg/kg	ND	0.0013
	sec-Butylbenzene	135-98-8	11	mg/kg	ND	0.0013
	tert-Butylbenzene	98-06-6	5.9	mg/kg	ND	0.0026
	1,2-Dibromo-3-chloropropane	96-12-8		mg/kg	ND	0.0039
	Isopropylbenzene	98-82-8		mg/kg	ND	0.0013
	p-Isopropyltoluene	99-87-6		mg/kg	ND	0.0013
	Naphthalene	91-20-3	12	mg/kg	ND	0.0052
	n-Propylbenzene	103-65-1	3.9	mg/kg	ND	0.0013
	1,2,4-Trichlorobenzene	120-82-1		mg/kg	ND	0.0026
	1,3,5-Trimethylbenzene	108-67-8	8.4	mg/kg	ND	0.0026
	1,2,4-Trimethylbenzene	95-63-6	3.6	mg/kg	ND	0.0026
	Methyl Acetate	79-20-9		mg/kg	ND	0.0052
	Cyclohexane	110-82-7		mg/kg	ND	0.013
	Freon-113	76-13-1		mg/kg	ND	0.0052
	Methyl cyclohexane	108-87-2		mg/kg	ND	0.0052

NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

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) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 50-100

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

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 passes a size 100 sieve? no

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:

Approximately 28,000 square feet of sod with one inch of soil underneath the grass. This is approximately 86 cubic yards of soil. One sample was collected for VOCs, SVOCs, pesticides, silvex, PCBs, 1,4-dioxane, PFAS, metals.

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):

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:

Chad Weiser - Landscape Associate of WNY

Location where fill was obtained:

8401 Packard Rd. Niagara Falls, NY 14304

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

NA

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

Provide a list of supporting documentation included with this request:

1. Summary table
2. Lab report

The information provided on this form is accurate and complete.

Signature

1/5/24

Date

Cody Martin

Print Name

C&S Engineers, Inc.

Firm

	SAMPLE ID:	SOD-01-120523		
	LAB ID:	L2371484-01		
	COLLECTION DATE:	12/5/2023		
	SAMPLE DEPTH:			
	SAMPLE MATRIX:	SOIL		
	NY-RESRR			
ANALYTE	**(mg/kg)**	Result	Flg	RL
VOLATILE ORGANICS BY EPA 5035				
Methylene chloride	100	ND		0.0057
1,1-Dichloroethane	26	ND		0.0011
Chloroform	49	ND		0.0017
Carbon tetrachloride	2.4	ND		0.0011
1,2-Dichloropropane	NA	ND		0.0011
Dibromochloromethane	NA	ND		0.0011
1,1,2-Trichloroethane	NA	ND		0.0011
Tetrachloroethene	19	ND		0.00057
Chlorobenzene	100	ND		0.00057
Trichlorofluoromethane	NA	ND		0.0046
1,2-Dichloroethane	3.1	ND		0.0011
1,1,1-Trichloroethane	100	ND		0.00057
Bromodichloromethane	NA	ND		0.00057
trans-1,3-Dichloropropene	NA	ND		0.0011
cis-1,3-Dichloropropene	NA	ND		0.00057
Bromoform	NA	ND		0.0046
1,1,2,2-Tetrachloroethane	NA	ND		0.00057
Benzene	4.8	ND		0.00057
Toluene	100	ND		0.0011
Ethylbenzene	41	ND		0.0011
Chloromethane	NA	ND		0.0046
Bromomethane	NA	ND		0.0023
Vinyl chloride	0.9	ND		0.0011
Chloroethane	NA	ND		0.0023
1,1-Dichloroethene	100	ND		0.0011
trans-1,2-Dichloroethene	100	ND		0.0017
Trichloroethene	21	ND		0.00057
1,2-Dichlorobenzene	100	ND		0.0023
1,3-Dichlorobenzene	49	ND		0.0023
1,4-Dichlorobenzene	13	ND		0.0023
Methyl tert butyl ether	100	ND		0.0023
p/m-Xylene	NA	ND		0.0023
o-Xylene	NA	ND		0.0011
cis-1,2-Dichloroethene	100	ND		0.0011
Styrene	NA	ND		0.0011
Dichlorodifluoromethane	NA	ND		0.011
Acetone	100	ND		0.011
Carbon disulfide	NA	ND		0.011
2-Butanone	100	ND		0.011
4-Methyl-2-pentanone	NA	ND		0.011
2-Hexanone	NA	ND		0.011
1,2-Dibromoethane	NA	ND		0.0011

	SAMPLE ID:	SOD-01-120523		
	LAB ID:	L2371484-01		
	COLLECTION DATE:	12/5/2023		
	SAMPLE DEPTH:			
	SAMPLE MATRIX:	SOIL		
	NY-RESRR			
ANALYTE	**(mg/kg)**	Result	Flg	RL
n-Butylbenzene	100	ND		0.0011
sec-Butylbenzene	100	ND		0.0011
tert-Butylbenzene	100	ND		0.0023
1,2-Dibromo-3-chloropropane	NA	ND		0.0034
Isopropylbenzene	NA	ND		0.0011
p-Isopropyltoluene	NA	ND		0.0011
Naphthalene	100	ND		0.0046
n-Propylbenzene	100	ND		0.0011
1,2,4-Trichlorobenzene	NA	ND		0.0023
1,3,5-Trimethylbenzene	52	ND		0.0023
1,2,4-Trimethylbenzene	52	ND		0.0023
Methyl Acetate	NA	ND		0.0046
Cyclohexane	NA	ND		0.011
Freon-113	NA	ND		0.0046
Methyl cyclohexane	NA	ND		0.0046
PERFLUORINATED ALKYL ACIDS BY EPA 1633				
Perfluorobutanoic Acid (PFBA)	NA	ND		0.000789
Perfluoropentanoic Acid (PFPeA)	NA	ND		0.000395
Perfluorobutanesulfonic Acid (PFBS)	NA	ND		0.000197
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2F	NA	ND		0.000789
Perfluorohexanoic Acid (PFHxA)	NA	ND		0.000197
Perfluoropentanesulfonic Acid (PFPeS)	NA	ND		0.000197
Perfluoroheptanoic Acid (PFHpA)	NA	ND		0.000197
Perfluorohexanesulfonic Acid (PFHxS)	NA	ND		0.000197
Perfluorooctanoic Acid (PFOA)	0.033	0.000051	J	0.000197
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2F	NA	0.000898		0.000789
Perfluoroheptanesulfonic Acid (PFHpS)	NA	ND		0.000197
Perfluorononanoic Acid (PFNA)	NA	ND		0.000197
Perfluorooctanesulfonic Acid (PFOS)	0.044	0.000169	J	0.000197
Perfluorodecanoic Acid (PFDA)	NA	ND		0.000197
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2F	NA	ND		0.000789
Perfluorononanesulfonic Acid (PFNS)	NA	ND		0.000197
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NA	ND		0.000197
Perfluoroundecanoic Acid (PFUnA)	NA	ND		0.000197
Perfluorodecanesulfonic Acid (PFDS)	NA	ND		0.000197
Perfluorooctanesulfonamide (PFOSA)	NA	ND		0.000197
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (	NA	ND		0.000197
Perfluorododecanoic Acid (PFDoA)	NA	ND		0.000197
Perfluorotridecanoic Acid (PFTrDA)	NA	ND		0.000197
Perfluorotetradecanoic Acid (PFTeDA)	NA	ND		0.000197
Hexafluoropropylene Oxide Dimer Acid (HFPO-D	NA	ND		0.000789
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	NA	ND		0.000789
Perfluorododecanesulfonic Acid (PFDoS)	NA	ND		0.000197
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic A	NA	ND		0.000789

	SAMPLE ID:	SOD-01-120523		
	LAB ID:	L2371484-01		
	COLLECTION DATE:	12/5/2023		
	SAMPLE DEPTH:			
	SAMPLE MATRIX:	SOIL		
	NY-RESRR			
ANALYTE	**(mg/kg)**	Result	Flg	RL
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfoni	NA	ND		0.000789
N-Methyl Perfluorooctane Sulfonamide (NMeFOS	NA	ND		0.000197
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	NA	ND		0.000197
N-Methyl Perfluorooctanesulfonamido Ethanol (N	NA	ND		0.00197
N-Ethyl Perfluorooctanesulfonamido Ethanol (NE	NA	ND		0.00197
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	NA	ND		0.000395
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	NA	ND		0.000395
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEES	NA	ND		0.000395
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	NA	ND		0.000395
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	NA	ND		0.000987
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	NA	ND		0.00493
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	NA	ND		0.00493
SEMIVOLATILE ORGANICS BY GC/MS				
Acenaphthene	100	ND		0.48
Hexachlorobenzene	1.2	ND		0.36
Bis(2-chloroethyl)ether	NA	ND		0.54
2-Chloronaphthalene	NA	ND		0.6
3,3'-Dichlorobenzidine	NA	ND		0.6
2,4-Dinitrotoluene	NA	ND		0.6
2,6-Dinitrotoluene	NA	ND		0.6
Fluoranthene	100	ND		0.36
4-Chlorophenyl phenyl ether	NA	ND		0.6
4-Bromophenyl phenyl ether	NA	ND		0.6
Bis(2-chloroisopropyl)ether	NA	ND		0.73
Bis(2-chloroethoxy)methane	NA	ND		0.65
Hexachlorobutadiene	NA	ND		0.6
Hexachlorocyclopentadiene	NA	ND		1.7
Hexachloroethane	NA	ND		0.48
Isophorone	NA	ND		0.54
Naphthalene	100	ND		0.6
Nitrobenzene	NA	ND		0.54
NDPA/DPA	NA	ND		0.48
n-Nitrosodi-n-propylamine	NA	ND		0.6
Bis(2-ethylhexyl)phthalate	NA	ND		0.6
Butyl benzyl phthalate	NA	ND		0.6
Di-n-butylphthalate	NA	ND		0.6
Di-n-octylphthalate	NA	ND		0.6
Diethyl phthalate	NA	ND		0.6
Dimethyl phthalate	NA	ND		0.6
Benzo(a)anthracene	1	ND		0.36
Benzo(a)pyrene	1	ND		0.48
Benzo(b)fluoranthene	1	ND		0.36
Benzo(k)fluoranthene	3.9	ND		0.36
Chrysene	3.9	ND		0.36

	SAMPLE ID:	SOD-01-120523		
	LAB ID:	L2371484-01		
	COLLECTION DATE:	12/5/2023		
	SAMPLE DEPTH:			
	SAMPLE MATRIX:	SOIL		
	NY-RESRR			
ANALYTE	**(mg/kg)**	Result	Flg	RL
Acenaphthylene	100	ND		0.48
Anthracene	100	ND		0.36
Benzo(ghi)perylene	100	ND		0.48
Fluorene	100	ND		0.6
Phenanthrene	100	ND		0.36
Dibenzo(a,h)anthracene	0.33	ND		0.36
Indeno(1,2,3-cd)pyrene	0.5	ND		0.48
Pyrene	100	ND		0.36
Biphenyl	NA	ND		1.4
4-Chloroaniline	NA	ND		0.6
2-Nitroaniline	NA	ND		0.6
3-Nitroaniline	NA	ND		0.6
4-Nitroaniline	NA	ND		0.6
Dibenzofuran	59	ND		0.6
2-Methylnaphthalene	NA	ND		0.73
1,2,4,5-Tetrachlorobenzene	NA	ND		0.6
Acetophenone	NA	ND		0.6
2,4,6-Trichlorophenol	NA	ND		0.36
p-Chloro-m-cresol	NA	ND		0.6
2-Chlorophenol	NA	ND		0.6
2,4-Dichlorophenol	NA	ND		0.54
2,4-Dimethylphenol	NA	ND		0.6
2-Nitrophenol	NA	ND		1.3
4-Nitrophenol	NA	ND		0.85
2,4-Dinitrophenol	NA	ND		2.9
4,6-Dinitro-o-cresol	NA	ND		1.6
Pentachlorophenol	6.7	ND		0.48
Phenol	100	ND		0.6
2-Methylphenol	100	ND		0.6
3-Methylphenol/4-Methylphenol	100	ND		0.87
2,4,5-Trichlorophenol	NA	ND		0.6
Carbazole	NA	ND		0.6
Atrazine	NA	ND		0.48
Benzaldehyde	NA	ND		0.8
Caprolactam	NA	ND		0.6
2,3,4,6-Tetrachlorophenol	NA	ND		0.6
1,4-Dioxane	13	ND		0.091
CHLORINATED HERBICIDES BY GC				
2,4,5-TP (Silvex)	100	ND		0.214
ORGANOCHLORINE PESTICIDES BY GC				
Delta-BHC	100	ND		0.00616
Lindane	1.3	ND		0.00257
Alpha-BHC	0.48	ND		0.00257
Beta-BHC	0.36	ND		0.00616

	SAMPLE ID:	SOD-01-120523		
	LAB ID:	L2371484-01		
	COLLECTION DATE:	12/5/2023		
	SAMPLE DEPTH:			
	SAMPLE MATRIX:	SOIL		
	NY-RESRR			
ANALYTE	**(mg/kg)**	Result	Flg	RL
Heptachlor	2.1	ND		0.00308
Aldrin	0.097	ND		0.00616
Heptachlor epoxide	NA	ND		0.0116
Endrin	11	ND		0.00257
Endrin aldehyde	NA	ND		0.0077
Endrin ketone	NA	ND		0.00616
Dieldrin	0.2	ND		0.00385
4,4'-DDE	8.9	ND		0.00616
4,4'-DDD	13	ND		0.00616
4,4'-DDT	7.9	ND		0.00616
Endosulfan I	24	ND		0.00616
Endosulfan II	24	ND		0.00616
Endosulfan sulfate	24	ND		0.00257
Methoxychlor	NA	ND		0.0116
Toxaphene	NA	ND		0.116
cis-Chlordane	4.2	ND		0.0077
trans-Chlordane	NA	ND		0.0077
Chlordane	NA	ND		0.0514
POLYCHLORINATED BIPHENYLS BY GC				
Aroclor 1016	1	ND		0.065
Aroclor 1221	1	ND		0.065
Aroclor 1232	1	ND		0.065
Aroclor 1242	1	ND		0.065
Aroclor 1248	1	ND		0.065
Aroclor 1254	1	ND		0.065
Aroclor 1260	1	ND		0.065
Aroclor 1262	1	ND		0.065
Aroclor 1268	1	ND		0.065
PCBs, Total	1	ND		0.065
TOTAL METALS				
Aluminum, Total	NA	7680		10.2
Antimony, Total	NA	0.41	J	5.1
Arsenic, Total	16	3.42		1.02
Barium, Total	400	53.3		1.02
Beryllium, Total	72	0.431	J	0.51
Cadmium, Total	4.3	0.195	J	1.02
Calcium, Total	NA	5290		10.2
Chromium, Total	NA	9.16		1.02
Cobalt, Total	NA	3.92		2.04
Copper, Total	270	6.79		1.02
Iron, Total	NA	13000		5.1
Lead, Total	400	13		5.1
Magnesium, Total	NA	2130		10.2
Manganese, Total	2000	152		1.02

	SAMPLE ID:	SOD-01-120523		
	LAB ID:	L2371484-01		
	COLLECTION DATE:	12/5/2023		
	SAMPLE DEPTH:			
	SAMPLE MATRIX:	SOIL		
	NY-RESRR			
ANALYTE	**(mg/kg)**	Result	Flg	RL
Mercury, Total	0.81	0.069	JB	0.094
Nickel, Total	310	9.53		2.55
Potassium, Total	NA	803		255
Selenium, Total	180	ND		2.04
Silver, Total	180	ND		0.51
Sodium, Total	NA	31.7	J	204
Thallium, Total	NA	ND		2.04
Vanadium, Total	NA	15.2		1.02
Zinc, Total	10000	43.4		5.1
GENERAL CHEMISTRY				
Solids, Total	NA	76.2		0.1
Cyanide, Total	27	ND		1.2
Chromium, Hexavalent	110	ND		1.05

* Comparison is not performed on parameters with non-numeric criteria.

NY-RESRR: New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 E

ANALYTICAL REPORT

Lab Number:	L2371484
Client:	C&S Companies 141 Elm Street, Suite 100 Buffalo, NY 14203
ATTN:	Cody Martin
Phone:	(716) 847-1630
Project Name:	240 LAKEFRONT BLVD
Project Number:	E67.022.609
Report Date:	12/19/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

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

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609

Lab Number: L2371484
Report Date: 12/19/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2371484-01	SOD-01-120523	SOIL	Not Specified	12/05/23 13:30	12/05/23

Project Name:	240 LAKEFRONT BLVD	**Lab Number:**	L2371484
Project Number:	E67.022.609	**Report Date:**	12/19/23

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:	240 LAKEFRONT BLVD	**Lab Number:**	L2371484
Project Number:	E67.022.609	**Report Date:**	12/19/23

Case Narrative (continued)

Report Submission

December 19, 2023: This final report includes the results of all requested analyses.

December 13, 2023: This is a preliminary report.

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

Sample Receipt

L2371484-01: The collection date and time on the chain of custody was 05-DEC-23 13:30; however, the collection date/time on the container label was 05-DEC-23 09:50. At the client's request, the collection date/time is reported as 05-DEC-23 13:30.

Semivolatile Organics

L2371484-01: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Perfluorinated Alkyl Acids by 1633

The WG1863550-2 LCS recovery, associated with L2371484-01, is above the acceptance criteria for nonafluoro-3,6-dioxaheptanoic acid (nfdha) (159%); however, the associated sample is non-detect to the RL for this target analyte. The results of the original analysis are reported.

The WG1863550-3 LCS recovery, associated with L2371484-01, is above the acceptance criteria for nonafluoro-3,6-dioxaheptanoic acid (nfdha) (166%); however, the associated sample is non-detect to the RL for this target analyte. The results of the original analysis are reported.

Pesticides

L2371484-01: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Project Name:	240 LAKEFRONT BLVD	**Lab Number:**	L2371484
Project Number:	E67.022.609	**Report Date:**	12/19/23

Case Narrative (continued)

Total Metals

L2371484-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

The WG1861116-1 Method Blank, associated with L2371484-01, has a concentration above the reporting limit for mercury. Since the associated sample concentration is non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 12/19/23

ORGANICS

VOLATILES

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

SAMPLE RESULTS

Lab ID: L2371484-01
Client ID: SOD-01-120523
Sample Location: Not Specified
Date Collected: 12/05/23 13:30
Date Received: 12/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 12/12/23 11:29
Analyst: AJK
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.79	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: 240 LAKEFRONT BLVD **Lab Number:** L2371484

Project Number: E67.022.609 **Report Date:** 12/19/23

SAMPLE RESULTS

Lab ID: L2371484-01 Date Collected: 12/05/23 13:30

Client ID: SOD-01-120523 Date Received: 12/05/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.5	1
2-Hexanone	ND		ug/kg	11	1.3	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.6	0.74	1
n-Propylbenzene	ND		ug/kg	1.1	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
Methyl Acetate	ND		ug/kg	4.6	1.1	1
Cyclohexane	ND		ug/kg	11	0.62	1
Freon-113	ND		ug/kg	4.6	0.79	1
Methyl cyclohexane	ND		ug/kg	4.6	0.69	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/12/23 10:12
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1862938-5					
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	ND		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: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/12/23 10:12
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1862938-5					
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
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
tert-Butylbenzene	ND		ug/kg	2.0	0.12
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
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
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
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/12/23 10:12
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1862938-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	82		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1862938-3 WG1862938-4								
Methylene chloride	87		87		70-130	0		30
1,1-Dichloroethane	88		90		70-130	2		30
Chloroform	89		90		70-130	1		30
Carbon tetrachloride	89		93		70-130	4		30
1,2-Dichloropropane	88		88		70-130	0		30
Dibromochloromethane	86		85		70-130	1		30
1,1,2-Trichloroethane	88		87		70-130	1		30
Tetrachloroethene	81		86		70-130	6		30
Chlorobenzene	81		82		70-130	1		30
Trichlorofluoromethane	91		97		70-139	6		30
1,2-Dichloroethane	95		92		70-130	3		30
1,1,1-Trichloroethane	87		91		70-130	4		30
Bromodichloromethane	92		89		70-130	3		30
trans-1,3-Dichloropropene	87		86		70-130	1		30
cis-1,3-Dichloropropene	94		91		70-130	3		30
Bromoform	83		86		70-130	4		30
1,1,2,2-Tetrachloroethane	92		94		70-130	2		30
Benzene	87		88		70-130	1		30
Toluene	80		82		70-130	2		30
Ethylbenzene	81		84		70-130	4		30
Chloromethane	94		99		52-130	5		30
Bromomethane	83		85		57-147	2		30
Vinyl chloride	81		88		67-130	8		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1862938-3 WG1862938-4								
Chloroethane	88		93		50-151	6		30
1,1-Dichloroethene	93		98		65-135	5		30
trans-1,2-Dichloroethene	91		94		70-130	3		30
Trichloroethene	91		93		70-130	2		30
1,2-Dichlorobenzene	81		81		70-130	0		30
1,3-Dichlorobenzene	80		82		70-130	2		30
1,4-Dichlorobenzene	80		81		70-130	1		30
Methyl tert butyl ether	99		95		66-130	4		30
p/m-Xylene	80		83		70-130	4		30
o-Xylene	82		83		70-130	1		30
cis-1,2-Dichloroethene	90		92		70-130	2		30
Styrene	86		86		70-130	0		30
Dichlorodifluoromethane	132		142		30-146	7		30
Acetone	109		105		54-140	4		30
Carbon disulfide	83		88		59-130	6		30
2-Butanone	109		106		70-130	3		30
4-Methyl-2-pentanone	99		97		70-130	2		30
2-Hexanone	102		102		70-130	0		30
1,2-Dibromoethane	92		91		70-130	1		30
n-Butylbenzene	77		82		70-130	6		30
sec-Butylbenzene	79		85		70-130	7		30
tert-Butylbenzene	78		83		70-130	6		30
1,2-Dibromo-3-chloropropane	97		95		68-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609

Lab Number: L2371484
Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1862938-3 WG1862938-4								
Isopropylbenzene	78		84		70-130	7		30
p-Isopropyltoluene	80		84		70-130	5		30
Naphthalene	94		102		70-130	8		30
n-Propylbenzene	78		84		70-130	7		30
1,2,4-Trichlorobenzene	92		98		70-130	6		30
1,3,5-Trimethylbenzene	78		85		70-130	9		30
1,2,4-Trimethylbenzene	80		84		70-130	5		30
Methyl Acetate	109		106		51-146	3		30
Cyclohexane	90		95		59-142	5		30
Freon-113	94		101		50-139	7		30
Methyl cyclohexane	89		94		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		99		70-130
Toluene-d8	94		96		70-130
4-Bromofluorobenzene	99		101		70-130
Dibromofluoromethane	104		103		70-130

SEMIVOLATILES

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

SAMPLE RESULTS

Lab ID: L2371484-01
Client ID: SOD-01-120523
Sample Location: Not Specified

Date Collected: 12/05/23 13:30
Date Received: 12/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 12/08/23 05:43
Analyst: EJL
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 12/07/23 00:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	480	63.	1
Hexachlorobenzene	ND		ug/kg	360	68.	1
Bis(2-chloroethyl)ether	ND		ug/kg	540	82.	1
2-Chloronaphthalene	ND		ug/kg	600	60.	1
3,3'-Dichlorobenzidine	ND		ug/kg	600	160	1
2,4-Dinitrotoluene	ND		ug/kg	600	120	1
2,6-Dinitrotoluene	ND		ug/kg	600	100	1
Fluoranthene	ND		ug/kg	360	70.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	600	65.	1
4-Bromophenyl phenyl ether	ND		ug/kg	600	92.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	730	100	1
Bis(2-chloroethoxy)methane	ND		ug/kg	650	61.	1
Hexachlorobutadiene	ND		ug/kg	600	89.	1
Hexachlorocyclopentadiene	ND		ug/kg	1700	550	1
Hexachloroethane	ND		ug/kg	480	98.	1
Isophorone	ND		ug/kg	540	79.	1
Naphthalene	ND		ug/kg	600	74.	1
Nitrobenzene	ND		ug/kg	540	90.	1
NDPA/DPA	ND		ug/kg	480	69.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	600	94.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	600	210	1
Butyl benzyl phthalate	ND		ug/kg	600	150	1
Di-n-butylphthalate	ND		ug/kg	600	110	1
Di-n-octylphthalate	ND		ug/kg	600	200	1
Diethyl phthalate	ND		ug/kg	600	56.	1
Dimethyl phthalate	ND		ug/kg	600	130	1
Benzo(a)anthracene	ND		ug/kg	360	68.	1
Benzo(a)pyrene	ND		ug/kg	480	150	1

Project Name: 240 LAKEFRONT BLVD **Lab Number:** L2371484

Project Number: E67.022.609 **Report Date:** 12/19/23

SAMPLE RESULTS

Lab ID: L2371484-01 Date Collected: 12/05/23 13:30

Client ID: SOD-01-120523 Date Received: 12/05/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	360	100	1
Benzo(k)fluoranthene	ND		ug/kg	360	97.	1
Chrysene	ND		ug/kg	360	63.	1
Acenaphthylene	ND		ug/kg	480	94.	1
Anthracene	ND		ug/kg	360	120	1
Benzo(ghi)perylene	ND		ug/kg	480	71.	1
Fluorene	ND		ug/kg	600	59.	1
Phenanthrene	ND		ug/kg	360	74.	1
Dibenzo(a,h)anthracene	ND		ug/kg	360	70.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	480	84.	1
Pyrene	ND		ug/kg	360	60.	1
Biphenyl	ND		ug/kg	1400	79.	1
4-Chloroaniline	ND		ug/kg	600	110	1
2-Nitroaniline	ND		ug/kg	600	120	1
3-Nitroaniline	ND		ug/kg	600	110	1
4-Nitroaniline	ND		ug/kg	600	250	1
Dibenzofuran	ND		ug/kg	600	57.	1
2-Methylnaphthalene	ND		ug/kg	730	73.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	600	63.	1
Acetophenone	ND		ug/kg	600	75.	1
2,4,6-Trichlorophenol	ND		ug/kg	360	110	1
p-Chloro-m-cresol	ND		ug/kg	600	90.	1
2-Chlorophenol	ND		ug/kg	600	72.	1
2,4-Dichlorophenol	ND		ug/kg	540	97.	1
2,4-Dimethylphenol	ND		ug/kg	600	200	1
2-Nitrophenol	ND		ug/kg	1300	230	1
4-Nitrophenol	ND		ug/kg	850	250	1
2,4-Dinitrophenol	ND		ug/kg	2900	280	1
4,6-Dinitro-o-cresol	ND		ug/kg	1600	290	1
Pentachlorophenol	ND		ug/kg	480	130	1
Phenol	ND		ug/kg	600	91.	1
2-Methylphenol	ND		ug/kg	600	94.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	870	95.	1
2,4,5-Trichlorophenol	ND		ug/kg	600	120	1
Carbazole	ND		ug/kg	600	59.	1
Atrazine	ND		ug/kg	480	210	1
Benzaldehyde	ND		ug/kg	800	160	1

Project Name: 240 LAKEFRONT BLVD **Lab Number:** L2371484

Project Number: E67.022.609 **Report Date:** 12/19/23

SAMPLE RESULTS

Lab ID: L2371484-01 Date Collected: 12/05/23 13:30

Client ID: SOD-01-120523 Date Received: 12/05/23

Sample Location: Not Specified 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	600	180	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	600	120	1
1,4-Dioxane	ND		ug/kg	91	28.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	54		10-136
4-Terphenyl-d14	58		18-120

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

SAMPLE RESULTS

Lab ID: L2371484-01
Client ID: SOD-01-120523
Sample Location: Not Specified

Date Collected: 12/05/23 13:30
Date Received: 12/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 144,1633
Analytical Date: 12/16/23 14:54
Analyst: ANH
Percent Solids: 76%

Extraction Method: EPA 1633
Extraction Date: 12/14/23 10:07
Cleanup Method: EPA 1633
Cleanup Date: 12/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.789	0.050	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.395	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.197	0.043	1
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.789	0.080	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.197	0.046	1
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.197	0.023	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.197	0.023	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.197	0.058	1
Perfluorooctanoic Acid (PFOA)	0.051	J	ng/g	0.197	0.051	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.898		ng/g	0.789	0.276	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.197	0.036	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.197	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	0.169	J	ng/g	0.197	0.078	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.197	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.789	0.382	1
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.197	0.042	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.197	0.099	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.197	0.051	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.197	0.032	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.197	0.043	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.197	0.081	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.197	0.040	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.197	0.052	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.197	0.105	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.789	0.097	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.789	0.144	1
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.197	0.038	1

Project Name: 240 LAKEFRONT BLVD **Lab Number:** L2371484

Project Number: E67.022.609 **Report Date:** 12/19/23

SAMPLE RESULTS

Lab ID: L2371484-01 Date Collected: 12/05/23 13:30

Client ID: SOD-01-120523 Date Received: 12/05/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.789	0.193	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.789	0.165	1
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.197	0.099	1
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.197	0.110	1
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	1.97	0.247	1
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	1.97	0.504	1
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.395	0.040	1
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.395	0.031	1
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.395	0.082	1
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.395	0.094	1
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	0.987	0.142	1
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	4.93	0.498	1
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	4.93	1.74	1

Project Name: 240 LAKEFRONT BLVD **Lab Number:** L2371484

Project Number: E67.022.609 **Report Date:** 12/19/23

SAMPLE RESULTS

Lab ID: L2371484-01 Date Collected: 12/05/23 13:30

Client ID: SOD-01-120523 Date Received: 12/05/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	65		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	67		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	72		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	83		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	66		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	60		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	73		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	70		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	64		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	71		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	68		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	51		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	120		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	64		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	62		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	62		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	76		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	53		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	60		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	64		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	53		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	52		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	75		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	68		20-150

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/08/23 01:58
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 12/07/23 00:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1860742-1					
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	32.
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	460	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	55.
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	27.

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/08/23 01:58
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 12/07/23 00:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1860742-1					
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	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
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	66.
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: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/08/23 01:58
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 12/07/23 00:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1860742-1					
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
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	210	44.
Caprolactam	ND		ug/kg	160	49.
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	78		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	84		18-120

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 12/16/23 12:34
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 12/14/23 10:07
Cleanup Method: EPA 1633
Cleanup Date: 12/14/23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01 Batch: WG1863550-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.800	0.050
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.400	0.056
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.200	0.043
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND		ng/g	0.800	0.081
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.200	0.046
Perfluoropentanesulfonic Acid (PFPeS)	ND		ng/g	0.200	0.023
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.200	0.023
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.200	0.059
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.200	0.052
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.800	0.280
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.200	0.037
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.200	0.078
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.200	0.079
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.200	0.075
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.800	0.387
Perfluorononanesulfonic Acid (PFNS)	ND		ng/g	0.200	0.042
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.200	0.100
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.200	0.051
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.200	0.032
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.200	0.043
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.200	0.082
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.200	0.041
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.200	0.053
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.200	0.106
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/g	0.800	0.098
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/g	0.800	0.146
Perfluorododecanesulfonic Acid (PFDoS)	ND		ng/g	0.200	0.038

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 12/16/23 12:34
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 12/14/23 10:07
Cleanup Method: EPA 1633
Cleanup Date: 12/14/23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01 Batch: WG1863550-1					
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND		ng/g	0.800	0.196
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/g	0.800	0.167
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND		ng/g	0.200	0.100
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND		ng/g	0.200	0.112
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND		ng/g	2.00	0.250
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND		ng/g	2.00	0.510
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND		ng/g	0.400	0.041
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND		ng/g	0.400	0.031
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND		ng/g	0.400	0.083
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND		ng/g	0.400	0.095
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND		ng/g	1.00	0.144
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND		ng/g	5.00	0.505
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND		ng/g	5.00	1.76

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 144,1633
Analytical Date: 12/16/23 12:34
Analyst: ANH

Extraction Method: EPA 1633
Extraction Date: 12/14/23 10:07
Cleanup Method: EPA 1633
Cleanup Date: 12/14/23

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab for sample(s): 01 Batch: WG1863550-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	80		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	97		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	87		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	86		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	88		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	85		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	85		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	87		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	79		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	85		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	71		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	78		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	84		20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	58		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	74		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	63		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	53		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	66		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	61		20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	84		20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	58		20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	54		20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	69		20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	71		20-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609

Lab Number: L2371484
Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1860742-2 WG1860742-3								
Acenaphthene	65		98		31-137	40		50
Hexachlorobenzene	72		111		40-140	43		50
Bis(2-chloroethyl)ether	64		103		40-140	47		50
2-Chloronaphthalene	75		113		40-140	40		50
3,3'-Dichlorobenzidine	44		68		40-140	43		50
2,4-Dinitrotoluene	75		115		40-132	42		50
2,6-Dinitrotoluene	80		118		40-140	38		50
Fluoranthene	71		109		40-140	42		50
4-Chlorophenyl phenyl ether	73		112		40-140	42		50
4-Bromophenyl phenyl ether	73		112		40-140	42		50
Bis(2-chloroisopropyl)ether	57		93		40-140	48		50
Bis(2-chloroethoxy)methane	71		109		40-117	42		50
Hexachlorobutadiene	78		124		40-140	46		50
Hexachlorocyclopentadiene	**36**	Q	63		40-140	**55**	Q	50
Hexachloroethane	63		102		40-140	47		50
Isophorone	73		111		40-140	41		50
Naphthalene	70		108		40-140	43		50
Nitrobenzene	69		105		40-140	41		50
NDPA/DPA	70		105		36-157	40		50
n-Nitrosodi-n-propylamine	72		113		32-121	44		50
Bis(2-ethylhexyl)phthalate	78		123		40-140	45		50
Butyl benzyl phthalate	76		116		40-140	42		50
Di-n-butylphthalate	75		117		40-140	44		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1860742-2 WG1860742-3								
Di-n-octylphthalate	79		125		40-140	45		50
Diethyl phthalate	70		108		40-140	43		50
Dimethyl phthalate	74		111		40-140	40		50
Benzo(a)anthracene	76		112		40-140	38		50
Benzo(a)pyrene	85		122		40-140	36		50
Benzo(b)fluoranthene	76		112		40-140	38		50
Benzo(k)fluoranthene	78		112		40-140	36		50
Chrysene	74		112		40-140	41		50
Acenaphthylene	73		109		40-140	40		50
Anthracene	72		110		40-140	42		50
Benzo(ghi)perylene	78		111		40-140	35		50
Fluorene	68		104		40-140	42		50
Phenanthrene	70		108		40-140	43		50
Dibenzo(a,h)anthracene	79		117		40-140	39		50
Indeno(1,2,3-cd)pyrene	78		114		40-140	38		50
Pyrene	72		107		35-142	39		50
Biphenyl	76		115		37-127	41		50
4-Chloroaniline	**28**	Q	40		40-140	35		50
2-Nitroaniline	81		119		47-134	38		50
3-Nitroaniline	41		62		26-129	41		50
4-Nitroaniline	66		97		41-125	38		50
Dibenzofuran	70		106		40-140	41		50
2-Methylnaphthalene	73		112		40-140	42		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1860742-2 WG1860742-3								
1,2,4,5-Tetrachlorobenzene	81		**124**	Q	40-117	42		50
Acetophenone	81		122		14-144	40		50
2,4,6-Trichlorophenol	83		123		30-130	39		50
p-Chloro-m-cresol	78		**118**	Q	26-103	41		50
2-Chlorophenol	71		**110**	Q	25-102	43		50
2,4-Dichlorophenol	78		117		30-130	40		50
2,4-Dimethylphenol	76		112		30-130	38		50
2-Nitrophenol	84		128		30-130	42		50
4-Nitrophenol	67		94		11-114	34		50
2,4-Dinitrophenol	41		66		4-130	47		50
4,6-Dinitro-o-cresol	70		106		10-130	41		50
Pentachlorophenol	46		72		17-109	44		50
Phenol	80		**122**	Q	26-90	42		50
2-Methylphenol	72		107		30-130.	39		50
3-Methylphenol/4-Methylphenol	74		111		30-130	40		50
2,4,5-Trichlorophenol	79		117		30-130	39		50
Carbazole	73		110		54-128	40		50
Atrazine	66		100		40-140	41		50
Benzaldehyde	79		130		40-140	49		50
Caprolactam	72		100		15-130	33		50
2,3,4,6-Tetrachlorophenol	69		110		40-140	46		50
1,4-Dioxane	47		67		40-140	35		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E67.022.609

Lab Number: L2371484

Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1860742-2 WG1860742-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		107		25-120
Phenol-d6	79		116		10-120
Nitrobenzene-d5	75		112		23-120
2-Fluorobiphenyl	77		112		30-120
2,4,6-Tribromophenol	78		114		10-136
4-Terphenyl-d14	77		113		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1863550-2 LOW LEVEL								
Perfluorobutanoic Acid (PFBA)	123		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	119		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	126		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	141		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	118		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	112		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	149		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	119		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	143		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	133		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	109		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	138		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	116		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	117		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	150		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	100		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	107		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	129		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	96		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	122		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	126		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	123		-		40-150	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1863550-2 LOW LEVEL								
Perfluorotridecanoic Acid (PFTrDA)	130		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	122		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	119		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	117		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	102		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	129		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	112		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	110		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	118		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	110		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	116		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	132		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	110		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	118		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	**159**	Q	-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	123		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	110		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	107		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E67.022.609

Lab Number: L2371484

Report Date: 12/19/23

Parameter	Low Level LCS %Recovery	Qual	Low Level LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1863550-2 LOW LEVEL								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	77				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	77				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	80				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	73				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	80				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	70				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	81				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	76				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	75				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	67				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	78				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	74				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	75				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	58				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	76				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	61				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	55				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	57				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	57				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	77				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	57				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	54				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	71				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	71				20-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609

Lab Number: L2371484
Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1863550-3								
Perfluorobutanoic Acid (PFBA)	128		-		40-150	-		30
Perfluoropentanoic Acid (PFPeA)	125		-		40-150	-		30
Perfluorobutanesulfonic Acid (PFBS)	123		-		40-150	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	120		-		40-150	-		30
Perfluorohexanoic Acid (PFHxA)	138		-		40-150	-		30
Perfluoropentanesulfonic Acid (PFPeS)	121		-		40-150	-		30
Perfluoroheptanoic Acid (PFHpA)	145		-		40-150	-		30
Perfluorohexanesulfonic Acid (PFHxS)	126		-		40-150	-		30
Perfluorooctanoic Acid (PFOA)	125		-		40-150	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	133		-		40-150	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	112		-		40-150	-		30
Perfluorononanoic Acid (PFNA)	118		-		40-150	-		30
Perfluorooctanesulfonic Acid (PFOS)	118		-		40-150	-		30
Perfluorodecanoic Acid (PFDA)	149		-		40-150	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	145		-		40-150	-		30
Perfluorononanesulfonic Acid (PFNS)	115		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	134		-		40-150	-		30
Perfluoroundecanoic Acid (PFUnA)	126		-		40-150	-		30
Perfluorodecanesulfonic Acid (PFDS)	108		-		40-150	-		30
Perfluorooctanesulfonamide (PFOSA)	112		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	130		-		40-150	-		30
Perfluorododecanoic Acid (PFDoA)	115		-		40-150	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609

Lab Number: L2371484
Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1863550-3								
Perfluorotridecanoic Acid (PFTrDA)	112		-		40-150	-		30
Perfluorotetradecanoic Acid (PFTeDA)	135		-		40-150	-		30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	130		-		40-150	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	126		-		40-150	-		30
Perfluorododecanesulfonic Acid (PFDoS)	111		-		40-150	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	121		-		40-150	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	122		-		40-150	-		30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	122		-		40-150	-		30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	126		-		40-150	-		30
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	113		-		40-150	-		30
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	131		-		40-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	139		-		40-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	138		-		40-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	133		-		40-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	**166**	Q	-		40-150	-		30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	122		-		40-150	-		30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	118		-		40-150	-		30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	118		-		40-150	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E67.022.609

Lab Number: L2371484

Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab Associated sample(s): 01 Batch: WG1863550-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	74				20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	78				20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	80				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	79				20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	79				20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	68				20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	83				20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	82				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	79				20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	72				20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	72				20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	69				20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	74				20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	55				20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	79				20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	64				20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	62				20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	75				20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	59				20-150
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	76				20-150
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	54				20-150
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	52				20-150
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	75				20-150
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	69				20-150

PCBS

Project Name: 240 LAKEFRONT BLVD
Lab Number: L2371484
Project Number: E67.022.609
Report Date: 12/19/23

SAMPLE RESULTS

Lab ID: L2371484-01
Client ID: SOD-01-120523
Sample Location: Not Specified

Date Collected: 12/05/23 13:30
Date Received: 12/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/08/23 13:41
Analyst: MEO
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 12/07/23 01:33
Cleanup Method: EPA 3665A
Cleanup Date: 12/07/23
Cleanup Method: EPA 3660B
Cleanup Date: 12/08/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	65.0	5.77	1	A
Aroclor 1221	ND		ug/kg	65.0	6.52	1	A
Aroclor 1232	ND		ug/kg	65.0	13.8	1	A
Aroclor 1242	ND		ug/kg	65.0	8.77	1	A
Aroclor 1248	ND		ug/kg	65.0	9.75	1	A
Aroclor 1254	ND		ug/kg	65.0	7.11	1	A
Aroclor 1260	ND		ug/kg	65.0	12.0	1	A
Aroclor 1262	ND		ug/kg	65.0	8.26	1	A
Aroclor 1268	ND		ug/kg	65.0	6.74	1	A
PCBs, Total	ND		ug/kg	65.0	5.77	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/08/23 10:13
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 12/07/23 01:33
Cleanup Method: EPA 3665A
Cleanup Date: 12/07/23
Cleanup Method: EPA 3660B
Cleanup Date: 12/08/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1860747-1						
Aroclor 1016	ND		ug/kg	47.3	4.20	A
Aroclor 1221	ND		ug/kg	47.3	4.74	A
Aroclor 1232	ND		ug/kg	47.3	10.0	A
Aroclor 1242	ND		ug/kg	47.3	6.38	A
Aroclor 1248	ND		ug/kg	47.3	7.10	A
Aroclor 1254	ND		ug/kg	47.3	5.18	A
Aroclor 1260	ND		ug/kg	47.3	8.75	A
Aroclor 1262	ND		ug/kg	47.3	6.01	A
Aroclor 1268	ND		ug/kg	47.3	4.90	A
PCBs, Total	ND		ug/kg	47.3	4.20	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	67		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E67.022.609

Lab Number: L2371484

Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1860747-2 WG1860747-3									
Aroclor 1016	88		88		40-140	0		50	A
Aroclor 1260	84		86		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		82		30-150	A
Decachlorobiphenyl	80		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		81		30-150	B
Decachlorobiphenyl	77		75		30-150	B

PESTICIDES

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

SAMPLE RESULTS

Lab ID: L2371484-01
Client ID: SOD-01-120523
Sample Location: Not Specified

Date Collected: 12/05/23 13:30
Date Received: 12/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/07/23 19:38
Analyst: JAG
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 12/07/23 02:20
Cleanup Method: EPA 3620B
Cleanup Date: 12/07/23
Cleanup Method: EPA 3660B
Cleanup Date: 12/07/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	6.16	1.21	1	A
Lindane	ND		ug/kg	2.57	1.15	1	A
Alpha-BHC	ND		ug/kg	2.57	0.729	1	A
Beta-BHC	ND		ug/kg	6.16	2.34	1	A
Heptachlor	ND		ug/kg	3.08	1.38	1	A
Aldrin	ND		ug/kg	6.16	2.17	1	A
Heptachlor epoxide	ND		ug/kg	11.6	3.47	1	A
Endrin	ND		ug/kg	2.57	1.05	1	A
Endrin aldehyde	ND		ug/kg	7.70	2.70	1	A
Endrin ketone	ND		ug/kg	6.16	1.59	1	A
Dieldrin	ND		ug/kg	3.85	1.93	1	A
4,4'-DDE	ND		ug/kg	6.16	1.42	1	A
4,4'-DDD	ND		ug/kg	6.16	2.20	1	A
4,4'-DDT	ND		ug/kg	6.16	4.96	1	A
Endosulfan I	ND		ug/kg	6.16	1.46	1	A
Endosulfan II	ND		ug/kg	6.16	2.06	1	A
Endosulfan sulfate	ND		ug/kg	2.57	1.22	1	A
Methoxychlor	ND		ug/kg	11.6	3.60	1	A
Toxaphene	ND		ug/kg	116	32.4	1	A
cis-Chlordane	ND		ug/kg	7.70	2.15	1	A
trans-Chlordane	ND		ug/kg	7.70	2.03	1	A
Chlordane	ND		ug/kg	51.4	20.4	1	A

Project Name: 240 LAKEFRONT BLVD **Lab Number:** L2371484

Project Number: E67.022.609 **Report Date:** 12/19/23

SAMPLE RESULTS

Lab ID: L2371484-01 Date Collected: 12/05/23 13:30

Client ID: SOD-01-120523 Date Received: 12/05/23

Sample Location: Not Specified 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	87		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	92		30-150	B

Project Name: 240 LAKEFRONT BLVD
Lab Number: L2371484
Project Number: E67.022.609
Report Date: 12/19/23

SAMPLE RESULTS

Lab ID: L2371484-01
Client ID: SOD-01-120523
Sample Location: Not Specified

Date Collected: 12/05/23 13:30
Date Received: 12/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/08/23 14:03
Analyst: PEG
Percent Solids: 76%
Methylation Date: 12/08/23 07:21

Extraction Method: EPA 8151A
Extraction Date: 12/07/23 09:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	214	5.71	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	97		30-150	A
DCAA	92		30-150	B

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/07/23 17:19
Analyst: JAG

Extraction Method: EPA 3546
Extraction Date: 12/07/23 02:20
Cleanup Method: EPA 3620B
Cleanup Date: 12/07/23
Cleanup Method: EPA 3660B
Cleanup Date: 12/07/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1860768-1						
Delta-BHC	ND		ug/kg	1.54	0.302	A
Lindane	ND		ug/kg	0.644	0.288	A
Alpha-BHC	ND		ug/kg	0.644	0.183	A
Beta-BHC	ND		ug/kg	1.54	0.586	A
Heptachlor	ND		ug/kg	0.772	0.346	A
Aldrin	ND		ug/kg	1.54	0.544	A
Heptachlor epoxide	ND		ug/kg	2.90	0.869	A
Endrin	ND		ug/kg	0.644	0.264	A
Endrin aldehyde	ND		ug/kg	1.93	0.676	A
Endrin ketone	ND		ug/kg	1.54	0.398	A
Dieldrin	ND		ug/kg	0.965	0.483	A
4,4'-DDE	ND		ug/kg	1.54	0.357	A
4,4'-DDD	ND		ug/kg	1.54	0.551	A
4,4'-DDT	ND		ug/kg	1.54	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.365	A
Endosulfan II	ND		ug/kg	1.54	0.516	A
Endosulfan sulfate	ND		ug/kg	0.644	0.306	A
Methoxychlor	ND		ug/kg	2.90	0.901	A
Toxaphene	ND		ug/kg	29.0	8.11	A
cis-Chlordane	ND		ug/kg	1.93	0.538	A
trans-Chlordane	ND		ug/kg	1.93	0.510	A
Chlordane	ND		ug/kg	12.9	5.12	A

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/07/23 17:19
Analyst: JAG

Extraction Method: EPA 3546
Extraction Date: 12/07/23 02:20
Cleanup Method: EPA 3620B
Cleanup Date: 12/07/23
Cleanup Method: EPA 3660B
Cleanup Date: 12/07/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1860768-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/08/23 12:30
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 12/07/23 09:07

Methylation Date: 12/08/23 07:21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1860947-1						
2,4,5-TP (Silvex)	ND		ug/kg	164	4.38	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	97		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1860768-2 WG1860768-3									
Delta-BHC	87		102		30-150	16		30	A
Lindane	87		102		30-150	16		30	A
Alpha-BHC	84		98		30-150	15		30	A
Beta-BHC	85		99		30-150	15		30	A
Heptachlor	84		96		30-150	13		30	A
Aldrin	85		98		30-150	14		30	A
Heptachlor epoxide	85		98		30-150	14		30	A
Endrin	89		102		30-150	14		30	A
Endrin aldehyde	74		84		30-150	13		30	A
Endrin ketone	86		101		30-150	16		30	A
Dieldrin	95		110		30-150	15		30	A
4,4'-DDE	88		101		30-150	14		30	A
4,4'-DDD	93		109		30-150	16		30	A
4,4'-DDT	90		103		30-150	13		30	A
Endosulfan I	84		95		30-150	12		30	A
Endosulfan II	85		100		30-150	16		30	A
Endosulfan sulfate	85		98		30-150	14		30	A
Methoxychlor	89		98		30-150	10		30	A
cis-Chlordane	81		93		30-150	14		30	A
trans-Chlordane	99		111		30-150	11		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609

Lab Number: L2371484
Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1860768-2 WG1860768-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		77		30-150	A
Decachlorobiphenyl	61		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		84		30-150	B
Decachlorobiphenyl	76		85		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E67.022.609

Lab Number: L2371484

Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1860947-2 WG1860947-3									
2,4,5-TP (Silvex)	109		105		30-150	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	90		86		30-150	A
DCAA	107		106		30-150	B

METALS

Project Name: 240 LAKEFRONT BLVD
Lab Number: L2371484
Project Number: E67.022.609
Report Date: 12/19/23

SAMPLE RESULTS

Lab ID: L2371484-01
Client ID: SOD-01-120523
Sample Location: Not Specified
Date Collected: 12/05/23 13:30
Date Received: 12/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7680		mg/kg	10.2	2.76	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Antimony, Total	0.410	J	mg/kg	5.10	0.388	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Arsenic, Total	3.42		mg/kg	1.02	0.212	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Barium, Total	53.3		mg/kg	1.02	0.178	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Beryllium, Total	0.431	J	mg/kg	0.510	0.034	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Cadmium, Total	0.195	J	mg/kg	1.02	0.100	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Calcium, Total	5290		mg/kg	10.2	3.57	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Chromium, Total	9.16		mg/kg	1.02	0.098	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Cobalt, Total	3.92		mg/kg	2.04	0.169	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Copper, Total	6.79		mg/kg	1.02	0.263	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Iron, Total	13000		mg/kg	5.10	0.921	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Lead, Total	13.0		mg/kg	5.10	0.273	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Magnesium, Total	2130		mg/kg	10.2	1.57	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Manganese, Total	152		mg/kg	1.02	0.162	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Mercury, Total	0.069	JB	mg/kg	0.094	0.062	1	12/11/23 23:30	12/12/23 12:11	EPA 7471B	1,7471B	GMG
Nickel, Total	9.53		mg/kg	2.55	0.247	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Potassium, Total	803		mg/kg	255	14.7	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Selenium, Total	ND		mg/kg	2.04	0.263	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.510	0.289	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Sodium, Total	31.7	J	mg/kg	204	3.21	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	2.04	0.321	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Vanadium, Total	15.2		mg/kg	1.02	0.207	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC
Zinc, Total	43.4		mg/kg	5.10	0.299	2	12/11/23 22:53	12/12/23 08:02	EPA 3050B	1,6010D	DMC

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

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 Batch: WG1861115-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Antimony, Total	ND		mg/kg	2.00	0.152	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Barium, Total	ND		mg/kg	0.400	0.070	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Calcium, Total	ND		mg/kg	4.00	1.40	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Chromium, Total	0.093	J	mg/kg	0.400	0.038	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Copper, Total	ND		mg/kg	0.400	0.103	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Iron, Total	ND		mg/kg	2.00	0.361	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Lead, Total	ND		mg/kg	2.00	0.107	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Manganese, Total	ND		mg/kg	0.400	0.064	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Nickel, Total	ND		mg/kg	1.00	0.097	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Potassium, Total	ND		mg/kg	100	5.76	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Selenium, Total	ND		mg/kg	0.800	0.103	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Silver, Total	ND		mg/kg	0.200	0.113	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Sodium, Total	ND		mg/kg	80.0	1.26	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Thallium, Total	ND		mg/kg	0.800	0.126	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC
Zinc, Total	ND		mg/kg	2.00	0.117	1	12/11/23 22:53	12/12/23 07:49	1,6010D	DMC

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 Batch: WG1861116-1										
Mercury, Total	0.154		mg/kg	0.083	0.054	1	12/11/23 23:30	12/12/23 11:34	1,7471B	GMG

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E67.022.609

Lab Number: L2371484

Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1861115-2 SRM Lot Number: D122-540								
Aluminum, Total	71		-		52-148	-		
Antimony, Total	135		-		6-194	-		
Arsenic, Total	98		-		81-119	-		
Barium, Total	105		-		83-117	-		
Beryllium, Total	101		-		83-117	-		
Cadmium, Total	95		-		83-117	-		
Calcium, Total	95		-		83-117	-		
Chromium, Total	96		-		82-118	-		
Cobalt, Total	96		-		84-117	-		
Copper, Total	91		-		84-116	-		
Iron, Total	92		-		65-135	-		
Lead, Total	96		-		83-117	-		
Magnesium, Total	86		-		80-120	-		
Manganese, Total	116		-		82-118	-		
Nickel, Total	100		-		83-117	-		
Potassium, Total	84		-		76-123	-		
Selenium, Total	101		-		81-119	-		
Silver, Total	104		-		80-120	-		
Sodium, Total	102		-		75-125	-		
Thallium, Total	92		-		81-119	-		
Vanadium, Total	97		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E67.022.609

Lab Number: L2371484

Report Date: 12/19/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1861115-2 SRM Lot Number: D122-540					
Zinc, Total	95	-	82-119	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1861116-2 SRM Lot Number: D122-540					
Mercury, Total	106	-	73-127	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609

Lab Number: L2371484
Report Date: 12/19/23

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 QC Batch ID: WG1861115-3 WG1861115-4 QC Sample: L2371685-01 Client ID: MS Sample												
Aluminum, Total	11200	228	12500	**570**	Q	13100	**829**	Q	75-125	5		20
Antimony, Total	0.722J	57	44.3	78		44.1	77		75-125	0		20
Arsenic, Total	15.0	13.7	29.8	108		22.0	**51**	Q	75-125	**30**	Q	20
Barium, Total	101	228	316	94		309	91		75-125	2		20
Beryllium, Total	0.883	5.7	6.37	96		6.44	97		75-125	1		20
Cadmium, Total	0.118J	6.05	5.50	91		5.45	90		75-125	1		20
Calcium, Total	1670	1140	2610	82		2660	86		75-125	2		20
Chromium, Total	13.5	22.8	35.2	95		35.8	97		75-125	2		20
Cobalt, Total	14.0	57	65.5	90		65.7	90		75-125	0		20
Copper, Total	18.4	28.5	42.4	84		41.8	82		75-125	1		20
Iron, Total	27900	114	31300	**2980**	Q	29700	**1570**	Q	75-125	5		20
Lead, Total	19.5	60.5	70.6	84		68.7	81		75-125	3		20
Magnesium, Total	3760	1140	5000	109		5580	**159**	Q	75-125	11		20
Manganese, Total	373	57	494	**212**	Q	399	**45**	Q	75-125	**21**	Q	20
Nickel, Total	27.7	57	78.5	89		80.2	92		75-125	2		20
Potassium, Total	882	1140	2010	99		2140	110		75-125	6		20
Selenium, Total	ND	13.7	12.2	89		11.9	86		75-125	2		20
Silver, Total	ND	5.7	5.67	99		5.62	98		75-125	1		20
Sodium, Total	29.0J	1140	1100	96		1110	97		75-125	1		20
Thallium, Total	0.403J	13.7	11.7	85		11.7	85		75-125	0		20
Vanadium, Total	15.9	57	69.3	94		68.3	91		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609

Lab Number: L2371484
Report Date: 12/19/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1861115-3 WG1861115-4 QC Sample: L2371685-01 Client ID: MS Sample									
Zinc, Total	72.7	57	127	95	127	95	75-125	0	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1861116-3 WG1861116-4 QC Sample: L2200086-79 Client ID: MS Sample									
Mercury, Total	0.215B	1.36	1.41	88	1.51	90	80-120	7	20

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2371484
Report Date: 12/19/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1861115-6 QC Sample: L2371685-01 Client ID: DUP Sample						
Aluminum, Total	11200	12100	mg/kg	8		20
Barium, Total	101	109	mg/kg	8		20
Calcium, Total	1670	1850	mg/kg	11		20
Iron, Total	27900	31200	mg/kg	12		20
Magnesium, Total	3760	4060	mg/kg	8		20
Manganese, Total	373	417	mg/kg	12		20

INORGANICS
&
MISCELLANEOUS

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

SAMPLE RESULTS

Lab ID: L2371484-01
Client ID: SOD-01-120523
Sample Location: Not Specified
Sample Depth:
Matrix: Soil
Date Collected: 12/05/23 13:30
Date Received: 12/05/23
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	76.2		%	0.100	NA	1	-	12/06/23 17:10	121,2540G	SJB
Cyanide, Total	ND		mg/kg	1.2	0.26	1	12/11/23 19:00	12/13/23 00:03	1,9010C/9012B	ANT
Chromium, Hexavalent	ND		mg/kg	1.05	0.210	1	12/11/23 13:30	12/12/23 16:04	1,7196A	DTH

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

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 Batch: WG1862488-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	12/11/23 13:30	12/12/23 16:04	1,7196A	DTH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1863067-1										
Cyanide, Total	ND		mg/kg	0.90	0.19	1	12/11/23 19:00	12/12/23 23:59	1,9010C/9012B	ANT

Lab Control Sample Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E67.022.609

Lab Number: L2371484

Report Date: 12/19/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1862488-2								
Chromium, Hexavalent	86		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1863067-2 WG1863067-3								
Cyanide, Total	90		90		80-120	2		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609

Lab Number: L2371484
Report Date: 12/19/23

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 QC Batch ID: WG1862488-4 QC Sample: L2371484-01 Client ID: SOD-01-120523												
Chromium, Hexavalent	ND	1240	1400	113		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1863067-4 WG1863067-5 QC Sample: L2371637-19 Client ID: MS Sample												
Cyanide, Total	ND	11	12	110		11	100		75-125	9		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1863067-6 WG1863067-7 QC Sample: L2371637-18 Client ID: MS Sample												
Cyanide, Total	ND	11	12	110		10	91		75-125	18		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 240 LAKEFRONT BLVD

Project Number: E67.022.609

Lab Number: L2371484

Report Date: 12/19/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1860654-1 QC Sample: L2371685-01 Client ID: DUP Sample						
Solids, Total	67.2	69.8	%	4		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1862488-6 QC Sample: L2371484-01 Client ID: SOD-01-120523						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609

Lab Number: L2371484
Report Date: 12/19/23

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(*)
L2371484-01A	Vial MeOH preserved	A	NA		2.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2371484-01B	Vial water preserved	A	NA		2.3	Y	Absent	06-DEC-23 16:23	NYTCL-8260HLW-R2(14)
L2371484-01C	Vial water preserved	A	NA		2.3	Y	Absent	06-DEC-23 16:23	NYTCL-8260HLW-R2(14)
L2371484-01D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L2371484-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2371484-01F	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L2371484-01G	Glass 500ml/16oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2371484-01H	Plastic 8oz unpreserved	A	NA		2.3	Y	Absent		A2-1633-DRAFT(90)

*Values in parentheses indicate holding time in days

Project Name: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

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/PFTeDA	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/PFDoS	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
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
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/PFOSA	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: 240 LAKEFRONT BLVD
Project Number: E67.022.609
Lab Number: L2371484
Report Date: 12/19/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name:	240 LAKEFRONT BLVD	**Lab Number:**	L2371484
Project Number:	E67.022.609	**Report Date:**	12/19/23

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:	240 LAKEFRONT BLVD	**Lab Number:**	L2371484
Project Number:	E67.022.609	**Report Date:**	12/19/23

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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.

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	240 LAKEFRONT BLVD	**Lab Number:**	L2371484
Project Number:	E67.022.609	**Report Date:**	12/19/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

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.

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.)

Project Name:	240 LAKEFRONT BLVD	**Lab Number:**	L2371484
Project Number:	E67.022.609	**Report Date:**	12/19/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

144 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS. Draft EPA Method 1633, EPA Document 821-D-22-001, June 2022.

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 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 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 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 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).
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 ANALYTICAL

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 1

Date Rec'd in Lab: 12/6/23

ALPHA Job #: L0371484

Client Information

Client: C&S Engineers
Address: 141 Elm St.
Phone:
Fax:
Email: CMartin@CSCG.com

Project Information

Project Name: 240 Lakefront Blvd
Project Location:
Project #: E67.022.609
(Use Project name as Project #) ☐
Project Manager: Cody Martin
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

Billing Information

☒ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

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	VOC, 8260/5035	SVOC, 8270	TAL Metals	PFAS, 1633	8151 (Silica) 8081, 8082	Hex Cr			Sample Specific Comments	Total Bottle
71484 01	SSD-01-120523	12/5/23	1:30	SO	CM	X	X	X	X	X	X				8

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Container Type	V	A	A	P	A	A		
Preservative	A	A	A	A	A	A		

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
	12/5/23 2:05	Joaquim Foley (AAL)	12/5/23 14:05
Joaquim Foley (AAL)	12/5/23 14:05		12/6/23 0240

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 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) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 0-50

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

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 passes a size 100 sieve? no

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:

A total of 5 soil samples were collected from the topsoil pile. Three discrete samples were collected for VOCs, 1 composite for PFAS and 1 composite analyzed for metals, herbicides, pesticides, PCBs, and SVOCs.

Sample ID: Planting Soil Mix - 1,2, and 5 analyzed for VOCs
Sample ID: Planting Soil Mix - 3 analyzed for metals, herbicides, pesticides, PCBs, and SVOCs
Sample ID: Planting Soil Mix - 4 analyzed for PFAS

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):

Sample results are compared to Restricted Residential Use SCOs.

All parameters are below allowable limits for the site.

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:

David M. Gier - Gernatt Asphalt Products, Inc.

Location where fill was obtained:

Taylor Hollow Road, Collins, NY

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

Import request approval for NFTA Outer Harbor Greenbelt site on 7/28/2023

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

Provide a list of supporting documentation included with this request:

1. Selected sample results from the original lab report
2. Import request approval for the NFTA Outer Harbor Greenbelt site
3. Correspondence from the fill source stating that the samples are representative of the current stockpile

The information provided on this form is accurate and complete.

Signature

11/1/2023

Date

Cody Martin

Print Name

C&S Engineers, Inc.

Firm

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 232636

Client: **Scott Lawn Yard Inc**

Project Reference: Bell Slip Imported Soil

Sample Identifier:	Planting Soil Mix - 1		
Lab Sample ID:	232636-36	**Date Sampled:**	6/15/2023
Matrix:	Soil	**Date Received**	6/19/2023

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.95	ug/Kg		6/22/2023 20:24
1,1-Dichloroethane	< 8.95	ug/Kg		6/22/2023 20:24
1,1-Dichloroethene	< 8.95	ug/Kg		6/22/2023 20:24
1,2,4-Trimethylbenzene	< 8.95	ug/Kg		6/22/2023 20:24
1,2-Dichlorobenzene	< 8.95	ug/Kg		6/22/2023 20:24
1,2-Dichloroethane	< 8.95	ug/Kg		6/22/2023 20:24
1,3,5-Trimethylbenzene	< 8.95	ug/Kg		6/22/2023 20:24
1,3-Dichlorobenzene	< 8.95	ug/Kg		6/22/2023 20:24
1,4-Dichlorobenzene	< 8.95	ug/Kg		6/22/2023 20:24
1,4-Dioxane	< 44.8	ug/Kg		6/22/2023 20:24
2-Butanone	< 44.8	ug/Kg		6/22/2023 20:24
Acetone	**52.3**	ug/Kg		6/22/2023 20:24
Benzene	< 8.95	ug/Kg		6/22/2023 20:24
Carbon Tetrachloride	< 8.95	ug/Kg		6/22/2023 20:24
Chlorobenzene	< 8.95	ug/Kg		6/22/2023 20:24
Chloroform	< 8.95	ug/Kg		6/22/2023 20:24
cis-1,2-Dichloroethene	< 8.95	ug/Kg		6/22/2023 20:24
Ethylbenzene	< 8.95	ug/Kg		6/22/2023 20:24
m,p-Xylene	< 8.95	ug/Kg		6/22/2023 20:24
Methyl tert-butyl Ether	< 8.95	ug/Kg		6/22/2023 20:24
Methylene chloride	< 22.4	ug/Kg		6/22/2023 20:24
n-Butylbenzene	< 8.95	ug/Kg		6/22/2023 20:24
n-Propylbenzene	< 8.95	ug/Kg		6/22/2023 20:24
o-Xylene	< 8.95	ug/Kg		6/22/2023 20:24
sec-Butylbenzene	< 8.95	ug/Kg		6/22/2023 20:24
tert-Butylbenzene	< 8.95	ug/Kg		6/22/2023 20:24
Tetrachloroethene	< 8.95	ug/Kg		6/22/2023 20:24
Toluene	< 8.95	ug/Kg		6/22/2023 20:24

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 232636

Client: **Scott Lawn Yard Inc**

Project Reference: Bell Slip Imported Soil

Sample Identifier:	Planting Soil Mix - 1		
Lab Sample ID:	232636-36	**Date Sampled:**	6/15/2023
Matrix:	Soil	**Date Received**	6/19/2023

trans-1,2-Dichloroethene	< 8.95	ug/Kg		6/22/2023 20:24
Trichloroethene	< 8.95	ug/Kg		6/22/2023 20:24
Vinyl chloride	< 8.95	ug/Kg		6/22/2023 20:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**107**	72.3 - 128		6/22/2023 20:24
4-Bromofluorobenzene	**89.1**	70 - 123		6/22/2023 20:24
Pentafluorobenzene	**104**	80.7 - 124		6/22/2023 20:24
Toluene-D8	**100**	82.1 - 121		6/22/2023 20:24

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z17741.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 232636

Client: **Scott Lawn Yard Inc**

Project Reference: Bell Slip Imported Soil

Sample Identifier:	Planting Soil Mix - 2		
Lab Sample ID:	232636-37	**Date Sampled:**	6/15/2023
Matrix:	Soil	**Date Received**	6/19/2023

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.44	ug/Kg		6/22/2023 20:44
1,1-Dichloroethane	< 8.44	ug/Kg		6/22/2023 20:44
1,1-Dichloroethene	< 8.44	ug/Kg		6/22/2023 20:44
1,2,4-Trimethylbenzene	< 8.44	ug/Kg		6/22/2023 20:44
1,2-Dichlorobenzene	< 8.44	ug/Kg		6/22/2023 20:44
1,2-Dichloroethane	< 8.44	ug/Kg		6/22/2023 20:44
1,3,5-Trimethylbenzene	< 8.44	ug/Kg		6/22/2023 20:44
1,3-Dichlorobenzene	< 8.44	ug/Kg		6/22/2023 20:44
1,4-Dichlorobenzene	< 8.44	ug/Kg		6/22/2023 20:44
1,4-Dioxane	< 42.2	ug/Kg		6/22/2023 20:44
2-Butanone	< 42.2	ug/Kg		6/22/2023 20:44
Acetone	**53.5**	ug/Kg		6/22/2023 20:44
Benzene	< 8.44	ug/Kg		6/22/2023 20:44
Carbon Tetrachloride	< 8.44	ug/Kg		6/22/2023 20:44
Chlorobenzene	< 8.44	ug/Kg		6/22/2023 20:44
Chloroform	< 8.44	ug/Kg		6/22/2023 20:44
cis-1,2-Dichloroethene	< 8.44	ug/Kg		6/22/2023 20:44
Ethylbenzene	< 8.44	ug/Kg		6/22/2023 20:44
m,p-Xylene	< 8.44	ug/Kg		6/22/2023 20:44
Methyl tert-butyl Ether	< 8.44	ug/Kg		6/22/2023 20:44
Methylene chloride	< 21.1	ug/Kg		6/22/2023 20:44
n-Butylbenzene	< 8.44	ug/Kg		6/22/2023 20:44
n-Propylbenzene	< 8.44	ug/Kg		6/22/2023 20:44
o-Xylene	< 8.44	ug/Kg		6/22/2023 20:44
sec-Butylbenzene	< 8.44	ug/Kg		6/22/2023 20:44
tert-Butylbenzene	< 8.44	ug/Kg		6/22/2023 20:44
Tetrachloroethene	< 8.44	ug/Kg		6/22/2023 20:44
Toluene	< 8.44	ug/Kg		6/22/2023 20:44

Client: **Scott Lawn Yard Inc**

Project Reference: Bell Slip Imported Soil

Sample Identifier: Planting Soil Mix - 2
Lab Sample ID: 232636-37 **Date Sampled:** 6/15/2023
Matrix: Soil **Date Received** 6/19/2023

trans-1,2-Dichloroethene	< 8.44	ug/Kg	6/22/2023	20:44
Trichloroethene	< 8.44	ug/Kg	6/22/2023	20:44
Vinyl chloride	< 8.44	ug/Kg	6/22/2023	20:44

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	72.3 - 128		6/22/2023	20:44
4-Bromofluorobenzene	**85.4**	70 - 123		6/22/2023	20:44
Pentafluorobenzene	**101**	80.7 - 124		6/22/2023	20:44
Toluene-D8	**103**	82.1 - 121		6/22/2023	20:44

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: z17742.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 232636

Client: **Scott Lawn Yard Inc**

Project Reference: Bell Slip Imported Soil

Sample Identifier:	Planting Soil Mix - 3		
Lab Sample ID:	232636-22	**Date Sampled:**	6/15/2023
Matrix:	Soil	**Date Received**	6/19/2023

Hexavalent Chromium

Analyte	Result	Units	Qualifier	Date Analyzed
Chrome, Hexavalent	<3.0	mg/Kg		6/26/2023

Method Reference(s): EPA 7196A (3060A)
Subcontractor ELAP ID: 10709

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	<0.6	mg/Kg		6/21/2023

Method Reference(s): EPA 9012B
Subcontractor ELAP ID: 10709

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**7.89**	mg/Kg		6/27/2023 08:07
Barium	**50.6**	mg/Kg		6/27/2023 08:07
Beryllium	< 0.286	mg/Kg		6/27/2023 08:07
Cadmium	< 0.286	mg/Kg		6/27/2023 08:07
Chromium	**10.6**	mg/Kg		6/27/2023 08:07
Copper	**22.5**	mg/Kg		6/27/2023 08:07
Lead	**11.4**	mg/Kg		6/27/2023 08:07
Manganese	**542**	mg/Kg		6/27/2023 08:07
Nickel	**16.0**	mg/Kg		6/27/2023 08:07
Selenium	< 1.14	mg/Kg		6/27/2023 08:07
Silver	< 0.572	mg/Kg		6/27/2023 08:07
Zinc	**76.7**	mg/Kg		6/27/2023 08:07

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 6/22/2023
Data File: 230627A

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 232636

Client: **Scott Lawn Yard Inc**

Project Reference: Bell Slip Imported Soil

Sample Identifier:	Planting Soil Mix - 3		
Lab Sample ID:	232636-22	**Date Sampled:**	6/15/2023
Matrix:	Soil	**Date Received**	6/19/2023

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.0375**	mg/Kg		6/22/2023 15:03

Method Reference(s): EPA 7471B
Preparation Date: 6/22/2023
Data File: Hg230622B

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.163	mg/Kg		6/27/2023 15:58
PCB-1221	< 0.163	mg/Kg		6/27/2023 15:58
PCB-1232	< 0.163	mg/Kg		6/27/2023 15:58
PCB-1242	< 0.163	mg/Kg		6/27/2023 15:58
PCB-1248	< 0.163	mg/Kg		6/27/2023 15:58
PCB-1254	< 0.163	mg/Kg		6/27/2023 15:58
PCB-1260	< 0.163	mg/Kg		6/27/2023 15:58
PCB-1262	< 0.163	mg/Kg		6/27/2023 15:58
PCB-1268	< 0.163	mg/Kg		6/27/2023 15:58

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**79.0**	10 - 110		6/27/2023 15:58

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 6/26/2023

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
2-Methylphenol	< 332	ug/Kg		6/27/2023 21:59
3&4-Methylphenol	< 332	ug/Kg		6/27/2023 21:59
Acenaphthene	< 332	ug/Kg		6/27/2023 21:59
Acenaphthylene	< 332	ug/Kg		6/27/2023 21:59
Anthracene	< 332	ug/Kg		6/27/2023 21:59
Benzo (a) anthracene	< 332	ug/Kg		6/27/2023 21:59

Sample Identifier: Planting Soil Mix - 3
Lab Sample ID: 232636-22 **Date Sampled:** 6/15/2023
Matrix: Soil **Date Received** 6/19/2023

Benzo (a) pyrene	< 332	ug/Kg		6/27/2023 21:59
Benzo (b) fluoranthene	< 332	ug/Kg		6/27/2023 21:59
Benzo (g,h,i) perylene	< 332	ug/Kg		6/27/2023 21:59
Benzo (k) fluoranthene	< 332	ug/Kg		6/27/2023 21:59
Chrysene	< 332	ug/Kg		6/27/2023 21:59
Dibenz (a,h) anthracene	< 332	ug/Kg		6/27/2023 21:59
Dibenzofuran	< 332	ug/Kg		6/27/2023 21:59
Fluoranthene	< 332	ug/Kg		6/27/2023 21:59
Fluorene	< 332	ug/Kg		6/27/2023 21:59
Hexachlorobenzene	< 332	ug/Kg		6/27/2023 21:59
Indeno (1,2,3-cd) pyrene	< 332	ug/Kg		6/27/2023 21:59
Naphthalene	< 332	ug/Kg		6/27/2023 21:59
Pentachlorophenol	< 663	ug/Kg		6/27/2023 21:59
Phenanthrene	< 332	ug/Kg		6/27/2023 21:59
Phenol	< 332	ug/Kg		6/27/2023 21:59
Pyrene	< 332	ug/Kg		6/27/2023 21:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**49.8**	35.1 - 95.9		6/27/2023 21:59
2-Fluorobiphenyl	**48.3**	10 - 156		6/27/2023 21:59
2-Fluorophenol	**42.8**	36 - 81.3		6/27/2023 21:59
Nitrobenzene-d5	**43.2**	31.5 - 83.8		6/27/2023 21:59
Phenol-d5	**47.7**	37.7 - 84		6/27/2023 21:59
Terphenyl-d14	**41.1**	40.5 - 99.5		6/27/2023 21:59

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 6/26/2023
Data File: B665021.D

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-TP (Silvex)	<360	ug/Kg		6/22/2023

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 232636

Client: **Scott Lawn Yard Inc**

Project Reference: Bell Slip Imported Soil

Sample Identifier:	Planting Soil Mix - 3		
Lab Sample ID:	232636-22	**Date Sampled:**	6/15/2023
Matrix:	Soil	**Date Received**	6/19/2023

Method Reference(s): EPA 8321B
Subcontractor ELAP ID: 10709

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	<4.0	ug/Kg		6/22/2023
4,4-DDE	<4.0	ug/Kg		6/22/2023
4,4-DDT	<4.0	ug/Kg		6/22/2023
Aldrin	<2.0	ug/Kg		6/22/2023
alpha-BHC	<2.0	ug/Kg		6/22/2023
beta-BHC	<2.0	ug/Kg		6/22/2023
cis-Chlordane	<2.0	ug/Kg		6/22/2023
delta-BHC	<2.0	ug/Kg		6/22/2023
Dieldrin	<4.0	ug/Kg		6/22/2023
Endosulfan I	<2.0	ug/Kg		6/22/2023
Endosulfan II	<4.0	ug/Kg		6/22/2023
Endosulfan Sulfate	<4.0	ug/Kg		6/22/2023
Endrin	<4.0	ug/Kg		6/22/2023
gamma-BHC (Lindane)	<2.0	ug/Kg		6/22/2023
Heptachlor	<2.0	ug/Kg		6/22/2023

Method Reference(s): EPA 8081B
Subcontractor ELAP ID: 10709

Project Name: BELL SLIP IMPORTED SOIL
Lab Number: L2334953
Project Number: BELL SLIP IMPORTED
Report Date: 07/18/23

SAMPLE RESULTS

Lab ID: L2334953-07
Client ID: PLANTING SOIL MIX 4
Sample Location: Not Specified

Date Collected: 06/15/23 00:00
Date Received: 06/19/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 144,1633
Analytical Date: 07/15/23 04:09
Analyst: CHB
Percent Solids: 73%

Extraction Method: EPA 1633
Extraction Date: 07/13/23 17:45
Cleanup Method: EPA 1633
Cleanup Date: 07/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.071	J	ng/g	0.787	0.050	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.394	0.055	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.197	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.197	0.046	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.197	0.023	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.197	0.058	1
Perfluorooctanoic Acid (PFOA)	0.087	J	ng/g	0.197	0.051	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.787	0.276	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.197	0.036	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.197	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	0.150	J	ng/g	0.197	0.078	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.197	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.787	0.381	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.197	0.098	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.197	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.197	0.032	1
Perfluorooctanesulfonamide (PFOSA)	ND		ng/g	0.197	0.043	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.197	0.081	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.197	0.040	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.197	0.052	1
Perfluorotetradecanoic Acid (PFTeDA)	ND		ng/g	0.197	0.105	1
PFOA/PFOS, Total	0.237	J	ng/g	0.197	0.051	1

Project Name: BELL SLIP IMPORTED SOIL **Lab Number:** L2334953

Project Number: BELL SLIP IMPORTED **Report Date:** 07/18/23

SAMPLE RESULTS

Lab ID: L2334953-07 Date Collected: 06/15/23 00:00

Client ID: PLANTING SOIL MIX 4 Date Received: 06/19/23

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by EPA 1633 - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	77		20-150
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	70		20-150
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	71		20-150
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	74		20-150
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	75		20-150
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	75		20-150
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	85		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	65		20-150
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	71		20-150
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	78		20-150
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	78		20-150
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	**177**	Q	20-150
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	99		20-150
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	75		20-150
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	70		20-150
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	72		20-150
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	82		20-150
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	89		20-150

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 232636

Client: **Scott Lawn Yard Inc**

Project Reference: Bell Slip Imported Soil

Sample Identifier:	Planting Soil Mix - 5		
Lab Sample ID:	232636-24	**Date Sampled:**	6/15/2023
Matrix:	Soil	**Date Received**	6/19/2023

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.57	ug/Kg		6/22/2023 17:50
1,1-Dichloroethane	< 8.57	ug/Kg		6/22/2023 17:50
1,1-Dichloroethene	< 8.57	ug/Kg		6/22/2023 17:50
1,2,4-Trimethylbenzene	< 8.57	ug/Kg		6/22/2023 17:50
1,2-Dichlorobenzene	< 8.57	ug/Kg		6/22/2023 17:50
1,2-Dichloroethane	< 8.57	ug/Kg		6/22/2023 17:50
1,3,5-Trimethylbenzene	< 8.57	ug/Kg		6/22/2023 17:50
1,3-Dichlorobenzene	< 8.57	ug/Kg		6/22/2023 17:50
1,4-Dichlorobenzene	< 8.57	ug/Kg		6/22/2023 17:50
1,4-Dioxane	< 42.9	ug/Kg		6/22/2023 17:50
2-Butanone	< 42.9	ug/Kg		6/22/2023 17:50
Acetone	< 42.9	ug/Kg		6/22/2023 17:50
Benzene	< 8.57	ug/Kg		6/22/2023 17:50
Carbon Tetrachloride	< 8.57	ug/Kg		6/22/2023 17:50
Chlorobenzene	< 8.57	ug/Kg		6/22/2023 17:50
Chloroform	< 8.57	ug/Kg		6/22/2023 17:50
cis-1,2-Dichloroethene	< 8.57	ug/Kg		6/22/2023 17:50
Ethylbenzene	< 8.57	ug/Kg		6/22/2023 17:50
m,p-Xylene	< 8.57	ug/Kg		6/22/2023 17:50
Methyl tert-butyl Ether	< 8.57	ug/Kg		6/22/2023 17:50
Methylene chloride	< 21.4	ug/Kg		6/22/2023 17:50
n-Butylbenzene	< 8.57	ug/Kg		6/22/2023 17:50
n-Propylbenzene	< 8.57	ug/Kg		6/22/2023 17:50
o-Xylene	< 8.57	ug/Kg		6/22/2023 17:50
sec-Butylbenzene	< 8.57	ug/Kg		6/22/2023 17:50
tert-Butylbenzene	< 8.57	ug/Kg		6/22/2023 17:50
Tetrachloroethene	< 8.57	ug/Kg		6/22/2023 17:50
Toluene	< 8.57	ug/Kg		6/22/2023 17:50

Client: **Scott Lawn Yard Inc**

Project Reference: Bell Slip Imported Soil

Sample Identifier: Planting Soil Mix - 5
Lab Sample ID: 232636-24 **Date Sampled:** 6/15/2023
Matrix: Soil **Date Received** 6/19/2023

trans-1,2-Dichloroethene	< 8.57	ug/Kg		6/22/2023 17:50
Trichloroethene	< 8.57	ug/Kg		6/22/2023 17:50
Vinyl chloride	< 8.57	ug/Kg		6/22/2023 17:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**109**	72.3 - 128		6/22/2023 17:50
4-Bromofluorobenzene	**88.1**	70 - 123		6/22/2023 17:50
Pentafluorobenzene	**103**	80.7 - 124		6/22/2023 17:50
Toluene-D8	**100**	82.1 - 121		6/22/2023 17:50

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: z17733.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220| F: (716) 851-7226
www.dec.ny.gov

July 28, 2023

Mark Wendel
Erie County Harbor Development Corporation
95 Perry Street
Suite 500
Buffalo, NY 14203

Re: Site Management (SM) –
Import Request
NFTA Outer Harbor Greenbelt, Buffalo
Erie County, Site No.: **B00149**

Dear Martin Wesolowski:

The Department has reviewed your request dated July 28, 2023 to import approximately 100 cubic yards of limestone dust from New Enterprise Stone & Lime Co. and approximately 1100 cubic yards of -3/4" gravel, approximately 500 cubic yards of turf soil, approximately 200 yards of planting soil, approximately 200 cubic yards of sand for soil mixes, and approximately 100 cubic yards of biorentention soil from Gernatt Asphalt Products, Inc. Based on the information provided, the request is hereby approved.

Testing in accordance with DER-10 and approval by the Department is required for any additional material imported from this source.

If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,

Megan Kuczka
Environmental Program Specialist – 1

ec: Chris Catanzaro – ECHDC
Stephen Franks – The LiRo Group
James Mazur – Turner Construction Company

13870 Taylor Hollow Rd, Collins, New York, 14034 - 716-532-3371 - Fax 716-532-9000

10/30/2023

ARC BUILDING PARTNERS
100 S. ELMWOOD AVENUE
BUFFALO NY 14202

Via EMail:

ATTENTION: Danielle Zientek

RE: Material Submittal Planting Soil Mix - 240-260 Lakefront Blvd., Buffalo, New York
Job DEC site #C915340

Dear Ms Zientek

This is to certify that the Planting Soil Mix proposed for use on the above listed project conforms to the requirements of the Project specifications. The Planting Soil Mix will be supplied from the remaining stockpile tested for Job: Bell Slip, Buffalo New York. The Planting Soil Mix was homogeneously blended at our Collins Plant located on Taylor Hollow Road, Collins, NY which is both a NYSDOT and NYSDEC approved source: NYSDOT source 5-81F, DEC Mine ID 90089 and DEC permit # 9043-30 -0089. .

Sincerely,
Gernatt Asphalt Products, Inc.

David M. Gier
Inside Sales Representative

APPENDIX C-2

TRUCK TICKETS

COLLINS GRAVEL
532-3371

CUSTOMER'S COPY

Gernatt

13870 TAYLOR HOLLOW ROAD - COLLINS, NY 14034

www.gernatt.com
OFFICE PHONE
(716) 532-3371
(716) 532-9000 FAX

Ticket #: 320053
Date: 11/09/23
Time: 08:45 AM

*** Delivery ***

CUSTOMER INFORMATION

ID: 1883
Name: MICHAEL SERAFINI TRUCKING
Address: 3529 BROADWAY
CHEEKTOWAGA, NY 14225

JOB INFORMATION

ID: 1883-02 PO#:
Name: 2023 WEST END BUFFALO
Address:

Phone: 716-684-7730 Phase: 70

Truck and Carrier Information

Truck ID: DIG102 LIC:
Descript: WHITE WESTERN STAR
Carrier ID:DIGIT
Name: DIG IT TRUCKING

Truck Weights

Gross	Tare	Net
67820 lb	27440 lb	40380 lb
33.910 TN	13.720 TN	20.190 TN
30.763 Mg	12.447 Mg	18.316 Mg

Weighmaster:

PRODUCT AND LOAD TOTALS

ID: 492 1/TODAY
Name: PLANTING SOIL MIX 20.190TN
JMF#: MG
Pile #:

COLLINS GRAVEL
532-3371

Gernatt

13870 TAYLOR HOLLOW ROAD - COLLINS, NY 14034

TRUCKER'S COPY

www.gernatt.com
OFFICE PHONE
(716) 532-3371
(716) 532-9000 FAX

Ticket #: 320058
Date: 11/09/23
Time: 10:04 AM

*** Delivery ***

CUSTOMER INFORMATION

ID: 1883
Name: MICHAEL SERAFINI TRUCKING
Address: 3529 BROADWAY
CHEEKTOWAGA, NY 14225

JOB INFORMATION

ID: 1883-02 PO#:
Name: 2023 WEST END BUFFALO
Address:

Phone: 716-684-7730 Phase: 70

Truck and Carrier Information

Truck ID: DIG109 LIC:
Descript: WHITE 109
Carrier ID: DIGIT
Name: DIG IT TRUCKING

Weighmaster:

Truck Weights

Gross	Tare	Net
70000 lb	27860 lb	42140 lb
35.000 TN	13.930 TN	21.070 TN
31.752 Mg	12.637 Mg	19.115 Mg

PRODUCT AND LOAD TOTALS

	2/TODAY
ID: 492	
Name: PLANTING SOIL MIX	41.260TN
	MG

JMF#:
Pile #:

LINS GRAVEL
-3371

ENGINEER'S COPY

Gernatt

13870 TAYLOR HOLLOW ROAD - COLLINS, NY 14034

www.gernatt.com
OFFICE PHONE
(716) 532-3371
(716) 532-9000 FAX

Ticket #: 320096
Date: 11/10/23
Time: 10:43 AM

*** Delivery ***

CUSTOMER INFORMATION

1883
MICHAEL SERAFINI TRUCKING
s: 3529 BROADWAY
CHEEKTOWAGA, NY 14225

JOB INFORMATION

ID: 1883-02 PO#:
Name: 2023 WEST END BUFFALO
Address:
,
Phone: 716-684-7730 Phase#: 70

ruck and Carrier Information

ID: DIG106 LIC:
ipt: WHITE INTERNATIONAL
r ID: DIGIT
DIG IT TRUCKING

Truck Weights

Gross	Tare	Net
67780 lb	27180 lb	40600 lb
33.890 TN	13.590 TN	20.300 TN
30.745 Mg	12.329 Mg	18.416 Mg

aster:

PRODUCT AND LOAD TOTALS

	1/TODAY
492 PLANTING SOIL MIX	20.300TN MG

:

Gary E. Smith
T06

: Received By:

Picked Up
Load Total: 40600

CE CHARGE OF 1½% PER MONTH (18% NUAL) ($1.00 Minimum Service Fee) will be charged ts not paid within normal terms. Acceptance of nstitutes acceptance of these terms.

Our trucking responsibility ends at the curb. A charge will be made for holding truck on the job for over 20 minutes.

ARV. JOB	
LEFT JOB	

WARNING: Hot mix asphalt may release hydrogen sulfide (H_2S) which can be toxic in large concentrations. Avoid breathing fumes unnecessarily. Contact with hot asphalt can produce burns. Avoid contact with skin.

Lakeside Sod Supply Co., Inc.

6660 Goodrich Road
Clarence Center, NY 14032

Invoice

APPROVED
Ryan Miller

Date	Invoice #
11/22/2023	77473

Bill To
Landscape Associate WNY 8401 Packard Road Niagara Falls, NY 14304

Ship To

P.O. Number	Terms	Ship	Via	Rep	S.O. No.
West End	Net 30	11/22/2023	Pick up		16108

Quantity	Item Code	Description	Price Each	Amount
700	Sod-KBG Picked Up	Kentucky Bluegrass Picked Up	0.30	210.00T
1	D-Pallet	Pallet deposit	0.00	0.00
		@ 5050.20 L23-031-CR #3347		
			Sales Tax (8.7...	$18.38

Acceptance by signature or payment of this invoice by the owner, contractor or their representative(s) relieves Lakeside Sod Supply Co. Inc., its agents and contractors of any and all responsibility for any damages caused by moving vehicles beyond the limits of improved roads or rights of way, or carrying mud, dirt, etc. onto pavement by vehicles ordered off said improved roads or rights of way. The undersigned takes full responsibility for all damages caused to property as foresaid.
Customer further agrees to hold harmless and indemnify Lakeside Sod Supply Co. Inc. for any claim for any such damage.

Total	$228.38
Payments/Credits	$0.00
Balance Due	$228.38

Signature	
Phone #	(716) 741-2877

Lakeside Sod Supply Co., Inc.

6660 Goodrich Road
Clarence Center, NY 14032

Invoice

Date	Invoice #
11/17/2023	77461

Bill To
Landscape Associate WNY 8401 Packard Road Niagara Falls, NY 14304

Ship To
240 Lakefront Blvd Buffalo New York 14202 chad 716-578-0270

P.O. Number	Terms	Ship	Via	Rep	S.O. No.
	Net 30	11/17/2023	Our truck del		16098

Quantity	Item Code	Description	Price Each	Amount
10,500	Sod-KBG Delivered	Kentucky Bluegrass Delivered	0.30	3,150.00T
1	Shipping Charge	Shipping Charge	225.00	225.00T
15	D-Pallet	Pallet deposit	0.00	0.00
			Sales Tax (8.7...	$295.31

APPROVED
Ryan Miller

@ 5050.20
L23-031-CR
3337

Acceptance by signature or payment of this invoice by the owner, contractor or their representative(s) relieves Lakeside Sod Supply Co. Inc., its agents and contractors of any and all responsibility for any damages caused by moving vehicles beyond the limits of improved roads or rights of way, or carrying mud, dirt, etc. onto pavement by vehicles ordered off said improved roads or rights of way. The undersigned takes full responsibility for all damages caused to property as foresaid.
Customer further agrees to hold harmless and indemnify Lakeside Sod Supply Co. Inc. for any claim for any such damage.

Total	$3,670.31
Payments/Credits	$0.00
Balance Due	$3,670.31

Signature	
Phone #	(716) 741-2877

LAKESIDE SOD SUPPLY Co. Inc.

6660 Goodrich Road
Clarence Center, NY 14032

Packing Slip

Date	S.O. No.
11/9/2023	16059

Bill to

Landscape Associate WNY
8401 Packard Road
Niagara Falls, NY 14304

Ship To

3705 Main Street
(NY-36 & NY-63)
Piffard, NY 14533
Chad 716-578-0270

P.O. No.	Terms	Rep	Ship Date	Ship Via
York Travel Center	Net 30		11/10/2023	Our truck del

Ordered	Item	Description	Shipped
16,800	Sod-KBG Delivered	Kentucky Bluegrass Delivered	
24	D-Pallet	Pallet deposit	
2	Shipping Charge	Shipping Charge	
		Load 1 - 10500 sq ft	
		Load 2 - 6300 sq ft	
		Sales Tax	

Acceptance by signature or payment of this invoice by the owner, contractor or their representative(s) relieves Lakeside Sod Supply Co. Inc., its agents and contractors of any and all responsibility for any damages caused by moving vehicles beyond the limits of improved roads or rights of way, or carrying mud, dirt, etc. onto pavement by vehicles ordered off said improved roads or rights of way. The undersigned takes full responsibility for all damages caused to property as foresaid.
Customer further agrees to hold harmless and indemnify Lakeside Sod Supply Co. Inc. for any claim for any such damage.

Signature

Phone # 716-741-2877

APPENDIX D

INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM

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. **C915340**

Site Name 240 - 260 Lakefront Boulevard Site

Site Address: 240 Lakefront Boulevard Zip Code: 14203
City/Town: Buffalo
County: Erie
Site Acreage: 2.094

Reporting Period: December 04, 2022 to December 04, 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? Restricted-Residential, 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.

	YES	NO
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. C915340

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
Portion of 110.59-1-3.11	Lakefront Boulevard, LLC	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

Groundwater use is prohibited
Landuse is restricted to Restricted Residential
Adherence to Site Management Plan
Implementation of an IC/EC Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
Portion of 110.59-1-3.11	Cover System

Cover System per 6NYCRR Part 375-6.7(d)

Passive Soil Vapor System

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. C915340

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 Paul F. Ciminelli (print name) at 50 Fountain Plaza, Suite 500, Buffalo, NY 14202 (print business address),

am certifying as Lakefront Boulevard LLC (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

January 2, 2024
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 T. Camp (print name) at 499 Col Eileen Collins Blvd Syracuse, NY 13212 (print business address),

am certifying as a Qualified Environmental Professional for the Lakefront Boulevard, LLC (Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		1/3/2024