

28 PUTNAM AVENUE

BROOKLYN, NEW YORK 11238

Remedial Investigation Report

OER Site Number: 16TMP0381X, 16EH-N297K

E-Designation Number: E-183

CEQR Number 07DCP066K

Fort Greene/Clinton Hill Rezoning

DOB Job Number: 320910573

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NOVEMBER 2023

REMEDIAL INVESTIGATION REPORT

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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photo-ionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Patrick Recio, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(tt). I have primary direct responsibility for implementation of the Remedial Investigation for the Redevelopment Project located 28 Putnam Avenue, Brooklyn, NY 11238 (OER Project Number: 16TMP0381X, NYC VCP Site No. 24CVCP013K). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Patrick Recio

11/08/2023



Qualified Environmental Professional

Date

Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 28 Putnam Avenue in the Clinton Hill Section of Brooklyn, New York and is identified as Block 1991, Lot 19 on the New York City Tax Map. The Site consists of a single irregularly shaped lot consisting of 40 ft of street frontage along Putnam Avenue and 60 ft of street frontage along Downing Street for a total area of approximately 2,400 square feet (SF). The site is located on the southwest corner of the Putnam Avenue and Downing Street intersection, with Putnam Street located to the north and Downing Street located to the east.

The Site is currently developed with a 1-story auto repair garage building on the northern portion of the Site and a 2-story commercial building with a partial cellar located on the southern portion of the Site. The cellar is approximately 7 ft below sidewalk grade (bsg) and occupies approximately 800 SF. The 1-story building and the 2-story building occupy the entire footprint of the Site. The single-story building was previously occupied by the Downing Auto Body facility since at least the late 1980s. The first and second floors of the 2-story building were previously occupied by a small wood working company.

The site is bordered to the north by Putnam Avenue; to the east by Downing Street; to the south by an 8-story mixed-use commercial and residential building (1019-1033 Fulton Street and 108-116 Downing Street); and to the west by a 1-story commercial and office building (1826 Putnam Avenue).

Summary of Proposed Redevelopment Plan

The Site will be developed with a new 6-story residential apartment building with a partial cellar located on the western portion of the building. The cellar will occupy an approximate area of 423 SF on the western portion of the Site. The building will have 39.2 ft of street frontage along

Putnam Avenue and 48.7 ft of street frontage along Downing Street, occupying approximately 1,738 SF of the Site. The remaining 662 SF of the Site will be occupied by a landscaped and concrete paved outdoor recreation area on the southern portion of the Site.

The cellar of the new building will consist of two mechanical rooms and a staircase to the first floor. The 1st floor will occupy the entire building footprint, while the remaining 12 ft to 17 ft of the Site footprint to the south will be occupied by paved outdoor recreation area. The first floor consists of the residential lobby/entrances with one residential apartment, mechanical room, two refuse areas, an elevator, and staircase. The 2nd through 5th floors will be occupied by residential apartments and refuse areas. The 6th floor will be occupied by a residential apartment with terrace and an accessory terrace space. The roof will consist of an additional passive recreational space. The cellar slab will be constructed approximately 10 ft below sidewalk grade. Therefore, excavation to a depth of approximately 12 ft below sidewalk grade (bsg) will be required for the cellar slab with additional excavation to 14 ft for cellar footings. The areas outside of the cellar footprint will require minimal excavation to approximately 2 ft below sidewalk grade.

The water table was encountered during the HydroTech Remedial Investigation (RI) at 60.34 ft below sidewalk grade, therefore should not be encountered during excavation and should not require dewatering. The current zoning designation is residential (R7A) with a commercial overlay (C2-4). The proposed use of the new building is consistent with existing zoning for the property.

Summary of Past Uses of Site and Areas of Concern

Phase I Site Assessment (Vertex, June 2014)

A Phase I Site Assessment Report was completed by The Vertex Companies, Inc. (Vertex) in June 2014. A Site history was established according to Sanborn Maps and regulatory agency documents. The Site was developed prior to 1887 and was used as a stable and carriage house in 1887, veterinary surgeon office in 1915, and machine shop from 1938 through 1983, and was most recently occupied by a church and a contractor storage warehouse. The northern portion of the Site was developed with a 1-story building occupied by a stable and commercial spaces including a carpenter in 1887 until 1915 before the current 1-story building was developed and occupied by Downing Garage in 1934 and then by an automotive repair shop until most recently.

The historical maps showed a gasoline storage tank in the central eastern portion of the northern building at the site between 1938 and 2007. The tank was registered with the NYSDEC Petroleum Bulk Storage (PBS) file number 2-612691 as a 500-gallon gasoline underground storage tank (UST) that is out of service. The UST has since been removed by Urban Foundation/Engineering, LLC under the direct supervision of HydroTech in September of 2018. The PBS filing for closure was also submitted and approved in January of 2019. The Phase I Site Assessment report indicated the following:

- Historic operations in the northern building as an automobile repair garage and body shop, with a machine shop in the southern building;
- Presence of a gasoline tank shown on the 1938 and subsequent Sanborn maps, the status of which is unknown (at the time of the Phase I);
- Staining observed on the floor and around floor drains in the garage area; and
- A subsurface pit with unknown function on the northwestern portion of the garage building.

In addition to the RECs listed above, the site was identified in the Environmental Data Resources, Inc. (EDR) database report reviewed as part of the Phase I ESDA on the New York E-Designation list, under the E-Designation number E-183, for hazmat, noise and air. Based on these listings, the site will need approval from the New York City Office of Environmental Remediation (OER) prior to any changes in use or obtaining building permits for future construction on the Site.

Phase II- Limited Subsurface Investigation (The Vertex Companies, Inc. July 2014)

A Phase II Limited Subsurface Investigation was performed by Vertex on July 9, 2014 and consisted of a ground penetrating radar (GPR) survey in the proposed sampling locations and determine if there were any underground anomalies (utilities, underground storage tanks, etc.), the installation of seven (7) soil borings across the northern auto repair garage building (VTX-01 through VTX-06 and VTX-08), one (1) soil boring in the cellar of the southern 2-story building (VTX-07), and attempted the installation of a temporary monitoring well (TW-2).

The GPR survey notes a fill port northwest of the small office located on the eastern portion of the Site that traveled southeast towards the small office. Due to flooring over the slab, GPR

could not be performed in the office. A vent pipe for the UST was observed in the northeastern corner of the office extending to the roofline of the building. Floor drains within the garage were determined to be connected to the sewer pipes. The small pit on the northwestern portion of the garage was previously connected to a water meter and was connected to a waterline that was capped coming from the northern sidewalk along Putnam Avenue. The larger pit located on the southern portion of the garage was associated with the sewer pipe. GPR survey of the remaining areas across the garage floor did not reveal evidence of any anomalies or underground storage tanks.

Soil boring VTX-01 was advanced to a terminal depth of 8.5 ft bsg, VTX-02 was advanced to a terminal depth of 9.0 ft bsg, VTX-03 was advanced to a terminal depth of 10 ft bsg, VTX-04 was advanced to a terminal depth of 6.5 ft bsg, VTX-5 and VTX-08 were advanced to a terminal depth of 8 ft bsg, and VTX-06 was advanced to 1 ft below cellar grade (bcg), approximately 8 ft bsg.

The one soil boring location in the cellar of the southern 2-story building, VTX-07, had one sample collected at the 0-0.5 ft interval below the cellar slab, but due to a large volume of mothballs present in the southern building basement, the soil sample was not analyzed, as mothballs contain chemicals that could have biased the sampling results.

The soil sample from VTX-01 was collected at the 7-7.5 ft interval, VTX-02 was collected at the 5-5.5 ft interval, VTX-03 through VTX-05 and VTX-08 were collected at the 0-0.5 ft interval, and VTX-06 and VTX-08 were collected at the 7.5-8 ft interval. The samples were submitted to the laboratory for analysis of volatile organic compounds (VOCs) by EPA method 8260 and semi-volatile organic compounds (SVOCs) by EPA method 8270. Additionally, soil boring surrounding the suspected UST location (VTX-02, VTX-06, and VTX-08) were analyzed for total lead by EPA method 6010B.

None of the soil samples collected and analyzed by the laboratory reported to contain any detectable VOCs, SVOCs, or lead above Unrestricted Use SCOs.

Remedial Investigation (HydroTech Environmental Corp. June/October 2016)

A Remedial Investigation was performed by HydroTech Environmental Corp. (HydroTech) on in June 2016 and consisted of a ground penetrating radar (GPR) survey across the Site, the installation of three (3) soil borings (SP-1 through SP-3) for the collection of six (6) soil samples, the installation of one (1) temporary monitoring well (MW-1) for the collection of one (1) groundwater sample, the installation of one sub-slab soil vapor probe and two (2) soil vapor probes for the collection of three (3) soil vapor samples, and due to the results of the soil vapor data, two (2) additional sub-slab points, two (2) on-Site soil vapor probes, and three (3) off-Site soil vapor probes were installed for the collection of seven soil vapor samples.

The HydroTech RI will be further summarized in the following sections.

Summary of the Work Performed under the Remedial Investigation

Vertex performed the following scope of work within the boundary of the Site on July 9, 2014;

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.); and
2. Performed a ground penetrating radar (GPR) survey across the auto repair garage building to clear soil borings and locate underground anomalies/utilities;
3. Installed eight soil borings; seven in the northern 1-story auto repair garage building of the Site (VTX-01 through VTX-06 and VTX-08) and one (1) in the cellar of the southern 2-story commercial building (VTX-07) to collect eight soil samples from VTX-01 through VTX-06 and VTX-08 for laboratory analysis of VOCs by EPA method 8260, SVOCs by EPA method 8270, and lead by EPA method 6010B. Due to a large volume of mothballs present in the southern building cellar, the soil sample from VTX-07 was not analyzed; and
4. Attempted installation of one (1) temporary monitoring well TW-2 located in the northern portion of the auto repair garage building, but due to refusal at 20 ft bsg, a groundwater sample could not be collected during the Phase II Limited Subsurface Investigation.

HydroTech performed the following scope of work within the boundary of the Site in June of 2016 and October of 2016;

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);

2. Performed a ground penetrating radar (GPR) survey across the auto repair garage building to clear soil borings and locate underground anomalies/utilities;
3. Installed three soil borings (SP-1 through SP-3), and collected six (6) soil samples for chemical analysis;
4. Installed one (1) groundwater monitoring well and collected one (10 groundwater sample for chemical analysis;
5. Installed one (1) sub-slab vapor probe and two (2) soil vapor probes around the Site perimeter and collected (3) soil vapor samples for chemical analysis; and
6. Due to high concentrations of tetrachloroethene (PCE) detected in the first round of soil vapor sampling, DEC requested additional delineation sampling to be conducted. In October 2016, two (2) sub-slab and five (5) soil vapor samples (two on-Site and three on nearby sidewalks) were collected for chemical analysis.

BEC performed the following scope of work within the boundary of the Site in October of 2023;

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed four soil borings (SB1 through SB4), two in the northern auto repair garage building (SB3 and SB4) and two in the southern building's cellar area (SB1 and SB2), and collected four (4) soil samples and one duplicate for chemical analysis;
3. Due to limited access within the auto repair garage building the depth to groundwater at 60 ft bsg, groundwater samples were not collected during the BEC Remedial Investigation on Site; and
4. Installed four soil vapor probes (SV1 through SV4) across the auto repair garage building and collected four soil vapor samples for chemical analysis.

Summary of Environmental Findings:

1. The site elevation is approximately 67 ft above sea level across the Site;
2. Depth to groundwater was encountered during the HydroTech RI at approximately 60.34 feet below sidewalk grade;
3. Regional groundwater flow is generally to the northeast, based on a review of topographical maps;
4. Depth to bedrock at the Site is greater than 100 feet;

5. The stratigraphy of the Site based on the soil borings performed by Vertex, HydroTech, and BEC, from below slab down, consists of fine brown sand with some ash to approximately 3 ft below sidewalk grade underlain with medium to fine silty sand with some cobbles to at least 12 ft below grade;
6. Soil/fill samples collected during the July 2014 Phase II Limited Subsurface Investigation (LSI) performed by The Vertex Companies, Inc. (Vertex), the June 2016 Remedial Investigation (RI) performed by HydroTech Environmental Corp. (HydroTech), and the October 2023 Remedial Investigation performed by BEC were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs), Residential Soil Cleanup Objectives (RSCO), and Restricted Residential Soil Cleanup Objectives (RRSCOs) as presented in 6NYCRR Part 375-6.8 and CP51. Soil/fill samples showed the following:
 - No PCBs were detected above their Unrestricted Use SCOs within any of the soil samples.
 - One VOC, acetone (61 µg/kg), was detected above Unrestricted Use SCOs within one sample during the BEC Phase II RI. Several other VOCs were detected at a trace concentrations in the soil samples collected during the Vertex Phase II LSI, during the HydroTech RI, and during the BEC Phase II RI;
 - Five SVOCs including, benz(a)anthracene (max. of 1,600 µg/kg), benzo(a)pyrene (max. of 1,700 µg/kg), benzo(b)fluoranthene (max. of 2,000 µg/kg), chrysene (max. of 1,700 µg/kg), and indeno(1,2,3-cd)pyrene (max. of 1,000 µg/kg) were detected above Restricted Residential Use SCOs in sample SB-2 and the duplicate (SB-2) during the BEC Phase II RI;
 - Pesticides including 4,4'-DDE (at 23 µg/Kg in SB1 0-2' bcg), 4,4'-DDT (max. of 13 µg/Kg in SB1 0-2' bcg), a-Chlordane (at 140 µg/Kg in SB1 0-2' bcg), and dieldrin (at 17 µg/Kg in SB1 0-2' and 10-12') were detected above UUSCOs during the BEC Phase II RI;
 - Six metals, including cadmium (at 3.17 mg/Kg in SB2 0-2' bcg), copper (max. of 159 mg/Kg in SB2 0-2' bcg), lead (max. of 2,220 mg/Kg in duplicate sample from SB2 0-2' bcg), mercury (0.24 mg/Kg in SB2 0-2' bcg), nickel (max. of 103 mg/Kg in SB1 0-2' bcg), and zinc (max. of 304 mg/Kg in SB2 0-2' bcg) were detected above UUSCOs during the BEC Phase II RI. Of these metals, cadmium was detected above

- Residential SCOs (RSCOS) within SB2 0-2' bcg and lead was also detected above its RRSCOs SB2 0-2' bcg and the duplicate samples;
- No PFAS compounds were detected within the SB3 4-6' soil sample retained for analysis during the BEC Phase II RI; and
 - Overall, the soil results were consistent with data identified at sites with historic fill material and native soil in NYC.
7. Groundwater samples collected during the June 2016 RI performed by HydroTech were compared to New York State 6NYCEE Part 703.5 Class GA Groundwater Standards (GQS). Groundwater samples showed the following:
- No Pesticides or PCBs were detected in the groundwater sample collected;
 - No VOCs or SVOCs were detected above their respective GQSs in the groundwater sample collected. No PCE or its derivative compounds were detected in the groundwater sample.
 - Two dissolved metals including manganese (max. of 718 µg/L) and sodium (max. of 35,000 µg/L) were detected in the groundwater sample at concentrations exceeding their respective GQSs.
 - The HydroTech RI groundwater sample indicates the groundwater has not been impacted by Site conditions.
8. Soil vapor results collected during the June 2016 and October 2016 Remedial Investigation performed by HydroTech and during October 2023 Remedial Investigation performed by BEC were compared to the compounds listed in Table 3.1 Air Guidance Values derived by the New York State Department of Health (NYSDOH) located in the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion, dated October 2006 and the revised NYSDOH Decision Matrices dated May 2017.
- The soil vapor results from indicated very low levels of petroleum related VOCs and chlorinated (CVOCS) during the HydroTech RI and during the BEC Phase II RI, with the exception of tetrachloroethene (max. of 15,000 µg/m³) detected during the HydroTech RI;
 - Total concentrations of petroleum-related VOCs (BTEX) within the thirteen soil vapor samples ranged from 50.16 µg/m³ (SV-3 – BEC Phase II RI) to 177.9 µg/m³ (SV-5 – HydroTech RI);

- CVOC methylene chloride was detected at 16 $\mu\text{g}/\text{m}^3$ in one soil vapor sample from SV-1 during the HydroTech RI;
- CVOC, tetrachloroethene (PCE), ranged between non-detect (SV-4 and SV-6 – HydroTech RI) to 15,000 $\mu\text{g}/\text{m}^3$ (SSB-1 – HydroTech RI);
- The chlorinated VOCs 1,1,1-trichloroethane (TCA), 1,1-dichloroethene, carbon tetrachloride, cis-1,2-dichloroethene, trichloroethene (TCE) and vinyl chloride were not detected within any of the soil vapor samples collected during the HydroTech RI and the BEC Phase II RI; and
- The chlorinated VOC, tetrachloroethene (PCE), was detected in 9 of the 13 soil vapor samples above the monitoring/mitigation level range established within the NYSDOH soil vapor guidance matrix.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

WMCM LLC. has applied to enroll in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate the approximate 2,400 ft² Site. Site located at 28 Putnam Avenue in the Clinton Hill Section of Brooklyn, New York. Residential use is proposed for the property. The RI work was conducted on the Site by The Vertex Companies, Inc. (Vertex) in July of 2014 and by BEC in October of 2023. This RIR summarizes the nature and extent of contamination at the Site and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 28 Putnam Avenue in the Clinton Hill Section of Brooklyn, New York and is identified as Block 1991, Lot 19 on the New York City Tax Map. The Site consists of a single irregularly shaped lot consisting of 40 ft of street frontage along Putnam Avenue and 60 ft of street frontage along Downing Street for a total area of approximately 2,400 square feet (SF). The site is located on the southwest corner of the Putnam Avenue and Downing Street intersection, with Putnam street located to the north and Downing Street located to the east.

The Site is currently developed with a 1-story auto repair garage building on the northern portion of the Site and a 2-story commercial building with a partial cellar located on the southern portion of the Site. The cellar is approximately 7 ft below sidewalk grade (bsg) and occupies approximately 800 SF. The 1-story building and the 2-story building occupy the entire footprint of the Site. The single-story building was previously occupied by the Downing Auto Body facility since at least the late 1980s. The first and second floors of the 2-story building were previously occupied by a small wood working company.

The site is bordered to the north by Putnam Avenue; to the east by Downing Street; to the south by an 8-story mixed-use commercial and residential building (1019-1033 Fulton Street and 108-

116 Downing Street); and to the west by a 1-story commercial and office building (1826 Putnam Avenue).

A site location map is included as Figure 1 and a site plan is included as Figure 2.

1.2 Proposed Redevelopment Plan

The Site will be developed with a new 6-story residential apartment building with a partial cellar located on the western portion of the building. The cellar will occupy an approximate area of 423 SF on the western portion of the Site. The building will have 39.2 ft of street frontage along Putnam Avenue and 48.7 ft of street frontage along Downing Street, occupying approximately 1,738 SF of the Site. The remaining 662 SF of the Site will be occupied by a landscaped and concrete paved outdoor recreation area on the southern portion of the Site.

The cellar of the new building will consist of two mechanical rooms and a staircase to the first floor. The 1st floor will occupy the entire building footprint, while the remaining 12 ft to 17 ft of the Site footprint to the south will be occupied by paved outdoor recreation area. The first floor consists of the residential lobby/entrances with one residential apartment, mechanical room, two refuse areas, an elevator, and staircase. The 2nd through 5th floors will be occupied by residential apartments and refuse areas. The 6th floor will be occupied by a residential apartment with terrace and an accessory terrace space. The roof will consist of an additional passive recreational space. The cellar slab will be constructed approximately 10 ft below sidewalk grade. Therefore, excavation to a depth of approximately 12 ft below sidewalk grade (bsg) will be required for the cellar slab with additional excavation to 14 ft for cellar footings. The areas outside of the cellar footprint will require minimal excavation to approximately 2 ft below sidewalk grade.

The water table was encountered during the HydeoTech Remedial Investigation (RI) at 60.34 ft below sidewalk grade, therefore should not be encountered during excavation and should not require dewatering. The current zoning designation is residential (R7A) with a commercial overlay (C2-4). The proposed use of the new building is consistent with existing zoning for the property.

1.3 Description of Surrounding Property

The area immediately surrounding the Site consists primarily of residential properties with commercial, industrial, and mixed- use properties as well. The adjacent properties are described in the table below. Figure 4 shows the surrounding land usage.

Surrounding Property Usage

Direction	Property Description
North – <i>Opposite Putnam Avenue</i>	<u>Block 1982, Lot 69 (90 Downing Street) – A 37,100 ft² lot developed with a 6-story residential apartment building.</u>
East – <i>Opposite Downing Street</i>	<u>Block 1992, Lot 18 (34 Putnam Avenue): Developed with a 4-story multi-family residential building.</u>
West – <i>Adjacent Property</i>	<u>Block 1991, Lot 16 (1826 Putnam Avenue) – Developed with a 1-story commercial building.</u>
South – <i>Adjacent Property</i>	<u>Block 1991, Lot 1 (1019-1033 Fulton Street) – Developed with an 8-story residential/commercial building.</u>

2.0 SITE HISTORY

2.1 Past Uses and Ownership

Phase I Site Assessment (Vertex, June 2014)

A Phase I Site Assessment Report was completed by The Vertex Companies, Inc. (Vertex) in June 2014. The Phase I Site Assessment report indicated the following:

- Historic operations in the northern building as an automobile repair garage and body shop, with a machine shop in the southern building;
- Presence of a gasoline tank shown on the 1938 and subsequent Sanborn maps, the status of which is unknown (at the time of the Phase I);
- Staining observed on the floor and around floor drains in the garage area; and
- A subsurface pit with unknown function on the northwestern portion of the garage building.

In addition to the RECs listed above, the site was identified in the Environmental Data Resources, Inc. (EDR) database report reviewed as part of the Phase I ESDA on the New York E-Designation list, under the E-Designation number E-183, for hazmat, noise and air. Based on these listings, the site will need approval from the New York City Office of Environmental Remediation (OER) prior to any changes in use or obtaining building permits for future construction on the Site.

Phase II- Limited Subsurface Investigation (The Vertex Companies, Inc. July 2014)

A Phase II Limited Subsurface Investigation was performed by Vertex on July 9, 2014 and consisted of a ground penetrating radar (GPR) survey in the proposed sampling locations and determine if there were any underground anomalies (utilities, underground storage tanks, etc.), the installation of seven (7) soil borings across the northern auto repair garage building (VTX-01 through VTX-06 and VTX-08), one (1) soil boring in the cellar of the southern 2-story building (VTX-07), and attempted the installation of a temporary monitoring well (TW-2).

The GPR survey notes a fill port northwest of the small office located on the eastern portion of the Site that traveled southeast towards the small office. Due to flooring over the slab, GPR could not be performed in the office. A vent pipe for the UST was observed in the northeastern corner of the office extending to the roofline of the building. Floor drains within the garage were

determined to be connected to the sewer pipes. The small pit on the northwestern portion of the garage was previously connected to a water meter and was connected to a waterline that was capped coming from the northern sidewalk along Putnam Avenue. The larger pit located on the southern portion of the garage was associated with the sewer pipe. GPR survey of the remaining areas across the garage floor did not reveal evidence of any anomalies or underground storage tanks.

Soil boring VTX-01 was advanced to a terminal depth of 8.5 ft bsg, VTX-02 was advanced to a terminal depth of 9.0 ft bsg, VTX-03 was advanced to a terminal depth of 10 ft bsg, VTX-04 was advanced to a terminal depth of 6.5 ft bsg, VTX-5 and VTX-08 were advanced to a terminal depth of 8 ft bsg, and VTX-06 was advanced to 1 ft below cellar grade (bcg), approximately 8 ft bsg.

The one soil boring location in the cellar of the southern 2-story building, VTX-07, had one sample collected at the 0-0.5 ft interval below the cellar slab, but due to a large volume of mothballs present in the southern building basement, the soil sample was not analyzed, as mothballs contain chemicals that could have biased the sampling results.

The soil sample from VTX-01 was collected at the 7-7.5 ft interval, VTX-02 was collected at the 5-5.5 ft interval, VTX-03 through VTX-05 and VTX-08 were collected at the 0-0.5 ft interval, and VTX-06 and VTX-08 were collected at the 7.5-8 ft interval. The samples were submitted to the laboratory for analysis of volatile organic compounds (VOCs) by EPA method 8260 and semi-volatile organic compounds (SVOCs) by EPA method 8270. Additionally, soil boring surrounding the suspected UST location (VTX-02, VTX-06, and VTX-08) were analyzed for total lead by EPA method 6010B.

None of the soil samples collected and analyzed by the laboratory reported to contain any detectable VOCs, SVOCs, or lead above Unrestricted Use SCOs.

Remedial Investigation (HydroTech Environmental Corp. June/October 2016)

A Remedial Investigation was performed by HydroTech Environmental Corp. (HydroTech) on in June 2016 and consisted of a ground penetrating radar (GPR) survey across the Site, the installation of three (3) soil borings (SP-1 through SP-3) for the collection of six (6) soil samples,

the installation of one (1) temporary monitoring well (MW-1) for the collection of one (1) groundwater sample, the installation of one sub-slab soil vapor probe and two (2) soil vapor probes for the collection of three (3) soil vapor samples, and due to the results of the soil vapor data, two (2) additional sub-slab points, two (2) on-Site soil vapor probes, and three (3) off-Site soil vapor probes were installed for the collection of seven soil vapor samples.

The HydroTech RI will be further summarized in the following sections.

2.2 Previous Investigations

A Phase II Limited Subsurface Investigation was performed by The Vertex Companies, Inc., in July of 2014 and a Remedial Investigation was performed by HydroTech Environmental Corp in June and October of 2016. Both reports are summarized as part of the Remedial Investigation.

2.3 Site Inspection

BEC performed a site inspection on October 9, 2022, to identify areas of concern (AOCs) and physical obstructions (i.e. structures, accessible areas to perform Phase II, etc.). The reconnaissance included a visual inspection of the property, the sidewalk areas immediately adjacent to the Site, and the exteriors of adjacent/surrounding properties. The entire lot was developed with the 1-story auto repair garage building on the northern portion of the Site and the 2-story commercial building with a cellar on the southern portion of the Site. The property is bordered by a sidewalk to the north along Putnam Avenue and to the east along Downing Street, and adjacent buildings to the south and west.

2.4 Areas of Concern

The AOCs identified for this Site include:

1. Historic fill layer is present across the Site to depths as great as 3 ft below sidewalk grade.
2. Historic presence of an auto repair garage in the northern 1-story building on Site and the presence of a machine shop in the 2-story building on the southern portion of the Site

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Mr. Patrick Recio.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

Vertex performed the following scope of work within the boundary of the Site on July 9, 2014;

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.); and
2. Performed a ground penetrating radar (GPR) survey across the auto repair garage building to clear soil borings and locate underground anomalies/utilities;
3. Installed eight soil borings; seven in the northern 1-story auto repair garage building of the Site (VTX-01 through VTX06 and VTX-08) and one (1) in the cellar of the southern 2-story commercial building (VTX-07) to collect eight soil samples from VTX-01 through VTX06 and VTX-08 for laboratory analysis of VOCs by EPA method 8260, SVOCs by EPA method 8270, and lead by EPA method 6010B. Due to a large volume of mothballs present in the southern building cellar, the soil sample from VTX-07 was not analyzed; and
4. Attempted installation of one (1) temporary monitoring well TW-2 located in the northern portion of the auto repair garage building, but due to refusal at 20 ft bsg, a groundwater sample could not be collected during the Phase II Limited Subsurface Investigation.

HydroTech performed the following scope of work within the boundary of the Site in June of 2016 and October of 2016;

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Performed a ground penetrating radar (GPR) survey across the auto repair garage building to clear soil borings and locate underground anomalies/utilities;
3. Installed three soil borings (SP-1 through SP-3), and collected six (6) soil samples for chemical analysis;
4. Installed one (1) groundwater monitoring well and collected one (10 groundwater sample for chemical analysis;
5. Installed one (1) sub-slab vapor probe and two (2) soil vapor probes around the Site perimeter and collected (3) soil vapor samples for chemical analysis; and
6. Due to high concentrations of tetrachloroethene (PCE) detected in the first round of soil vapor sampling, DEC requested additional delineation sampling to be conducted. In

October 2016, two (2) sub-slab and five (5) soil vapor samples (two on-Site and three on nearby sidewalks) were collected for chemical analysis.

BEC performed the following scope of work within the boundary of the Site in October of 2023;

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed four soil borings (SB1 through SB4), two in the northern auto repair garage building (SB3 and SB4) and two in the southern building's cellar area (SB1 and SB2), and collected four (4) soil samples and one duplicate for chemical analysis;
3. Due to limited access within the auto repair garage building the depth to groundwater at 60 ft bsg, groundwater samples were not collected during the BEC Remedial Investigation on Site; and
4. Installed four soil vapor probes (SV1 through SV4) across the auto repair garage building and collected four soil vapor samples for chemical analysis.

4.1 Geophysical Investigation

A geophysical survey was not performed as part of BEC's investigation due to a GPR survey being performed during the Vertex Phase II Limited Subsurface Investigation in July of 2014 and a GPR Survey being performed during the HydroTech RI in June of 2016. During the GPR surveys, a UST fill port and vent were observed near the office on the eastern portion of the Site. Staining was observed in the garage area but was determined to be a de minimis condition for the Site. Soil borings were performed in the UST area during the Vertex Phase II LSI and HydroTech RI. The samples did not show evidence of subsurface contamination consistent with a release from the UST.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

Vertex - Phase II Limited Subsurface Site Investigation – July 2014

On July 9, 2014, seven soil borings (VTX-01 through VTX-06 and VTX-08) were installed in the 1-story auto repair garage building on the northern portion of the Site and one soil boring (VTX-07) was installed in the cellar of the 2-story commercial building on the southern portion of the Site. The location of each of the soil borings is shown on Figure 5. The seven soil borings

in the auto repair garage building were installed using a track-mounted hydraulic direct-push drill rig to depths ranging from 3.5 ft bsg to 10 ft bsg due to refusal across the area. The one soil boring in the cellar of the 2-story commercial building was installed utilizing hand equipment to a depth of 1 ft below cellar grade (bcg) which is the equivalent to approximately 8 ft bsg. Soil recovered from each of the soil borings was field screened for the presence of VOCs with a PID and visually inspected for evidence of contamination. No elevated PID readings or olfactory odors were identified within the VTX-03 through VTX-06 soil borings. VTX-01 soil boring had PID readings ranging from 0.8 parts per million (ppm) at 5 ft bsg to 4.9 ppm at 7 ft bsg. VTX-02 soil boring had PID readings ranging from 0.0 ppm immediately below the slab to 0.9 ppm at 5 ft bsg. VTX-07 soil boring had PID readings ranging from 0.0 ppm at 0.5 ft below cellar grade to 0.7 ppm immediately below the cellar slab. VTX-08 soil boring had PID readings ranging from 0.8 ppm at 5 ft bsg to 7.8 ppm immediately below the slab. Soil boring details are provided in Table 1. Boring logs were prepared by a Qualified Environmental Professional and are attached in Appendix B.

HydroTech – Remedial Investigation – June/October 2016

Hydro Tech installed three (3) soil probes, designated SP-1 to SP-3, during June 2016. The location of each of the soil borings is shown on Figure 5. Two soil probes (SP-2 and SP-3) were installed in the northern building to depth of refusal at 12 feet bgs including one soil probe (SP-2) installed in the vicinity of the anomaly associated with the registered 550-gallon gasoline tank. One soil probe (SP-1) was installed below the basement slab of the southern building to depth of refusal encountered at 3 feet below slab elevation. The three soil probes installed by Hydro Tech were intended to characterize the soil quality to 2 feet below the anticipated depth of Site excavation of 15 feet from curb elevation along Putnam Avenue, unless soil sampling at that depth was prevented by shallow refusal. All soil probes were installed utilizing Geoprobe tooling and sampling equipment. Soil samples were collected utilizing Macro Core sampler fitted with dedicated acetate liners. Each Macro Core was cut open and immediately screened with a Photo Ionization Detector (PID) for VOCs, prior to collecting the required samples for laboratory analysis.

Soil was also screened for presence of odors and soil discoloration. No visual evidence of staining or olfactory evidence of petroleum contamination was identified in the soil samples. The soil was screened and characterized at 2-foot intervals and continuous soil samples were collected during soil probe installation. No groundwater was encountered during the soil boring advancement. Soil boring details are provided in Table 1. Boring logs were prepared by a Qualified Environmental Professional and are attached in Appendix B.

BEC- Phase II Remedial Investigation - October 2023

On October 9, 2023, two soil borings (SB3 and SB4) were installed across auto repair garage area and on October 10, 2023, two soil borings (SB1 and SB2) were installed across the 2-story commercial building's cellar slab area. The locations of the four soil borings were chosen to gain representative soil quality information for the Site. The location of each of the soil borings is shown on Figure 5. A GeoprobeTM 420M utilizing direct-push technology was used to install the soil borings in the auto repair garage building, while the soil borings in the cellar of the 2-story commercial building were installed utilizing hand equipment. Soil recovered from each of the soil borings was field screened for the presence of VOCs with a PID and visually inspected for evidence of contamination. No elevated PID readings or olfactory odors were identified.

For SB1 and SB2 soil samples were collected from the 0 to 2 ft below cellar grade; SB3 soil samples were collected from the intervals of 0 to 2 ft and 4 to 6 ft below sidewalk grade, and SB4 soil samples were collected from the intervals of 0 to 2 ft and 10 to 12 ft below sidewalk grade. Soil boring details are provided in Table 1. Boring logs were prepared by a Qualified Environmental Professional and are attached in Appendix B.

Groundwater Monitoring Well Construction

Vertex - Phase II Limited Subsurface Site Investigation – July 2014

On July 9, 2014, Vertex attempted the installation of one (1) temporary monitoring well (TW-2) in the northwestern portion of the auto repair garage building. Due to refusal at 20 ft bsg, the monitoring well was not installed.

HydroTech – Remedial Investigation – June/October 2016

Hydro Tech installed one (1) temporary monitoring well (MW-1) at the same location of SP-3 during June 2016. The location of the monitoring well is shown on Figure 5. Monitoring well MW-1 was installed utilizing Geoprobe equipment to the depth of 68 feet bgs and was constructed of 1-inch diameter PVC. The well screen consisted of 0.010-inch slots extended up at least 15 feet from the bottom of the well in order to intersect the groundwater expected at 60 feet bgs. A sand pack consisting of #2 sand was installed around the screen with a one foot bentonite seal placed on top of the sand pack. The remaining portion of the well consisted of a riser surrounded by native soil to grade finished with a manhole cover.

The installation of other monitoring wells was attempted without success by Vertex during 2014 and Hydro Tech during 2016 due to either refusal encountered at shallow depths or lack of vertical clearance required by the drilling equipment.

Construction logs of monitoring well MW-1 is attached in Appendix C. The groundwater sampling log from MW-1 with information on purging and sampling of groundwater monitor well is included in Appendix D. A map showing the location of monitoring well is shown in Figure 5.

BEC- Phase II Remedial Investigation - October 2023

Due to the previous refusal at 20 ft and due to the height restrictions of the building, additional monitoring well installation was not attempted during BEC's October 2023 Phase II Remedial Investigation.

Soil Vapor Probe Installation

HydroTech- Remedial Investigation – June/October 2016

Hydro Tech installed two (2) soil vapor probes (SV-1 and SV-2) beneath the northern building and one (2) sub-slab probe (SSB-1) beneath the basement slab of the southern building during July 2016. The soil vapor probes were installed to the depth of 12 feet bgs in SV-1 and SV-2, to the depth of 10 feet in SV-3 to SV-7 and to 3 inches below the bottom of the slab SSB-1, SSB-1a and SSB-2. The sub-slab vapor probes were installed with Ryobi hand drill equipped with a masonry bit and the soil vapor probes were installed with the Geoprobe® equipment and were constructed in accordance with the NYSDOH guidance for evaluating soil vapor intrusion dated

October 2006. Each vapor sampling point consisted of a stainless-steel screen, or implant, fitted with dedicated polyethylene tubing. Glass beads were poured into the hole to fully encompass the screen implant and the hole was sealed with bentonite and quick dry-lock non-VOC quick set cement. The soil vapor probes were backfilled with soil and then sealed at grade with bentonite. A map showing the locations of sub-slab and soil vapor borings is shown in Figure 8.

BEC- Phase II Remedial Investigation - October 2023

The four soil vapor implants were installed on October 9, 2023, during the Remedial Investigation performed by BEC. The four soil vapor implants, SV-1 through SV-4 were installed using Geoprobe™ Model 420M utilizing direct push technology. Soil Vapor implants SV-1 through SV-3 were installed to a terminal depth of approximately 4 ft below sidewalk grade. Soil vapor implant SV-4 was installed to a terminal depth of approximately 12 ft below sidewalk grade. The soil vapor probes were made from stainless steel and fitted with disposable polyethylene tubing. The surface of the boreholes was sealed with a hydrated bentonite powder.

Survey

A survey of the sampling locations was performed during the HydroTech RI in June/October 2016. Soil boring, monitoring well, and soil vapor installation depths are provided in Table 1.

Water Level Measurement

During the HydroTech RI, prior to groundwater purging and sampling of monitoring well MW-1, the well was gauged for the presence of Light, Non-aqueous Phase Liquid (LNAPL) and also monitored to determine the depth to groundwater. The well gauging and monitoring was performed utilizing a Solinst 122 Oil/Water Interface Probe (interface probe). The interface probe can measure depths to water to 0.01 inch. Well gauging and monitoring was performed in the well from the northern portion of the casing top. The depth to water in the MW-1 was determined to be at 60.34 ft below sidewalk grade (bsg).

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation targeted Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or

other field indicators. Media including soil and soil vapor were sampled and evaluated in the RIR. Discrete (grab) samples were used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment and selection of a final remedy.

Soil Sampling

Vertex - Phase II Limited Subsurface Site Investigation – July 2014

A total of eight soil samples (no duplicate) were collected for chemical analysis during the July 9, 2014, Phase II performed by The Vertex Companies Inc. Data on soil sample collection for chemical analyses including dates of collection, analytical results, and sample depths, is reported on Table 2A, 3A, and 5A. Figure 5 shows the location of samples collected during the July 2014 Phase II LSI performed by Vertex. Soil exceedances for the July 2014 Phase II performed by Vertex are shown on the attached Figure 6A. Laboratories and analytical methods for soil samples collected during the RI are shown below.

The eight soil samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted for analysis with proper chain of custody to Alpha Analytical Laboratory of 8 Walkup Drive, Westborough, MA, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11148). All soil samples were analyzed for the presence of VOCs via EPA Method 8260 and SVOCs via EPA Method 8270. The samples surrounding the UST (VTX-01, VTX-02, VTX-06, and VTX-08) were also samples for total lead via EPA Method 6010. The soil sample from VTX-07 was not analyzed due to the presence of mothballs in the area, that could have impacted the chemical composition of the samples.

HydroTech – Remedial Investigation – June/October 2016

Fourteen (14) soil samples were collected from the soil-borings on-Site for laboratory analysis; these included four shallow soil samples from zero to 0.5 feet bgs, two (2) shallow soil samples from zero to 2 feet bgs, five (5) deep soil samples collected at the intervals from 5 to 5.5 feet bgs, 7 to 7.5 feet bgs, 7.5 to 8 feet bgs and 10 to 12 feet bgs (two samples) and three (2) deep soil sample collected below the basement floor at the intervals of 7 to 7.5 feet bgs, 7 to 9 feet and 9

to 10 feet bgs (zero to 0.5 feet, zero to 2 feet and 2 to 3 feet below the basement slab). One of the fourteen soil samples collected during July 2014 from 7 to 7.5 feet bgs (VTX-7) below the basement slab was screened for the presence of suspected impacts in the field but was not analyzed due to anticipated interference from a large volume of mothballs present in the southern building basement.

Soil samples were collected utilizing a 4-foot long Macro Core sampler fitted with dedicated acetate liners. All samples were properly handled and placed into the appropriately labeled containers. One field blank sample and one trip blank were collected and submitted to the laboratory as specified in the Work Plans. The samples were placed in a cooler filled with ice and maintained at a maximum 4 degrees Celsius. All samples were transmitted under proper chain of custody procedures to New York State-certified (ELAP) Alpha Analytical and York Analytical Laboratories, Inc. for confirmatory laboratory analyses. All holding times were met. The laboratory did not report any irregularities with respect to their internal Quality Assurance/Quality Control.

Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Tables 2A, 3A, 4A, and 5A. Figure 6A shows the location of samples collected during HydroTech's Remedial Investigation.

BEC- Phase II Remedial Investigation - October 2023

A total of six soil samples and one duplicate soil sample was collected for chemical analysis during the October 2023 Remedial Investigation by BEC. Additionally, one set of trip blanks were included in the submission to the laboratory. Data on soil sample collection for chemical analyses, including dates of collection, analytical results, and sample depths, is reported in Tables 2B, 3B, 4B, 5B, and 6. Figure 5 shows the location of samples collected during this Remedial Investigation. Soil exceedances are shown on the attached Figure 6B. Laboratories and analytical methods for soil samples collected during the RI are shown below.

The six soil samples and one duplicate were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted for analysis with proper chain of custody to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT

06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). All soil samples were analyzed for the presence of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082, and target analyte list (TAL) metals. Sample analysis for 1,4-dioxane by EPA Method 8270D (SIM) was performed by Phoenix on sample SB4(10-12'). Sample analysis for PFAs by EPA method 537 was performed by York Analytical Laboratories, Inc. on SB3(4-6'). Samples were collected by an environmental professional wearing nitrile gloves which were changed in between each soil sample. New terra-core samplers were used to fill VOC samples and were discarded after filling each set of glassware. Samples were collected directly from the acetate liners after being pulled from the ground. Samples were collected with special care to ensure that no cross-contamination occurred between samples.

Groundwater Sampling

Vertex - Phase II Limited Subsurface Site Investigation – July 2014

Vertex attempted the installation of a temporary monitoring well (TW-2) during the Phase II LSI in July of 2014. However, due to refusal at 20 ft bsg and due to limited height clearance within the auto repair garage building, the monitoring well could not be installed. The depth to groundwater is approximately 60 ft bsg.

HydroTech – Remedial Investigation – June/October 2016

One (1) groundwater sample was collected for chemical analysis during this RI. Groundwater sample from the monitoring wells MW-1 was collected using the low stress (low flow) purging and sampling procedure. The low flow was accomplished with a Geopump peristaltic pump and the continuous flow was monitored with a Horiba U-50 series flow cell until water quality readings had stabilized. The monitoring well was sampled without a stringent stabilization of turbidity, which is considered a conservative parameter in terms of stabilization.

Groundwater sample from MW-1 was collected utilizing the Geopump peristaltic pump with dedicated teflon and polyethylene tubing. The water sample was collected in laboratory-supplied jars, properly labeled with the sample number, the data and time of sampling, the analytical requirements. One one trip blank was collected and submitted to the laboratory as specified in

the work plan. All samples were then placed on ice for the duration of the sampling and transport to the laboratory identified York Analytical Laboratories, Inc. A chain of custody form was completed at the time of sampling and maintained until disposition of the samples at the laboratory.

Sampling logs with information on purging and sampling of groundwater monitor wells is included in Appendix D. Figure 5 shows the location of groundwater sampling.

BEC- Phase II Remedial Investigation - October 2023

Due to the refusal and height restrictions within the auto repair garage building, BEC did not attempt the installation of monitoring wells during the Phase II RI in October of 2023.

Soil Vapor Sampling

HydroTech – Remedial Investigation – June/October 2016

Two (2) soil vapor probes and one (1) sub-slab vapor probe were collected for chemical analysis during this RI. In addition, two (2) sub-slab and five (5) soil vapor samples were collected for chemical analysis during the RI Addendum. Methodologies used for soil vapor assessment conform to the NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.

Soil vapor samples from sub-slab SSB-1, SSB-1a and SSB-2 and soil vapor probes SV-1 to SV-7 were collected utilizing 6-liter pre-cleaned, passivated, evacuated whole air Summa[®] Canister. A 12-inch by 12-inch piece of plastic sheeting was sealed with beeswax around the edges over the sampling probe in order to keep the tracer gas in contact with the probe and the ambient air from entering the probe during testing. In order to insure the integrity of the borehole seal and to verify that ambient air is not inadvertently drawn into the sample, a tracer gas, Helium, was used to enrich the atmosphere in the immediate vicinity of the sampling location. Plastic sheeting was used to keep the tracer gas in contact with the soil vapor probe during the sampling while continuously monitoring air drawn from the implant with a helium detector (Dielectric Model MGD-2002, Multi-gas Detector). Helium Detector readings did not exceed zero ppm indicating Helium was not detected. Following verification that the surface seal was tight and prior to soil vapor sampling, approximately 0.3 ml of air was purged out of all vapor points utilizing a syringe.

The Summa Canisters were calibrated for 2 hours for SSB-1, SV-1 and SV-2 and for 4 hours for SSB-1a, SSB-2 and SV-3 to SV-7. The soil vapor sampling was run on each canister at a rate less than 0.2 liters per minute. The initial vacuum (inches of mercury) and start time was recorded immediately after opening each Summa Canister. After the sampling was complete, the final vacuum and top time was recorded.

After the soil vapor sampling, each Summa was labeled and a chain of custody form was completed at the time of sampling and maintained until disposition of the Summa Canisters at the laboratory.

Soil vapor sample analytical data is reported in Table 11A and the soil vapor sampling log is included in Appendix E. Soil vapor sampling locations are shown in Figure 5.

BEC- Phase II Remedial Investigation - October 2023

Four soil vapor probes were installed, and soil vapor samples (SV1 through SV4) were collected for chemical analysis during the October 2023 Remedial Investigation by BEC. The four soil vapor sampling locations are shown on Figure 5. Soil vapor sample analytical data is reported in Table 11B, and the soil vapor sampling logs are included in Appendix E. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006*

The four soil vapor implants were installed on October 9, 2023, during the Remedial Investigation performed by BEC. The four soil vapor implants, SV1 through SV4 were installed using Geoprobe™ Model 420M utilizing direct push technology. Soil vapor implants SV1 through SV3 were installed to a depth of approximately 4 ft below sidewalk grade. SV4 was installed to a depth of approximately 12 ft below sidewalk grade in the location of the proposed cellar for the new building. The soil vapor probes were made from stainless steel and fitted with disposable polyethylene tubing. The surface of the boreholes was sealed with a hydrated bentonite powder.

Prior to sampling, each sampling location was tested to ensure a proper surface seal had been obtained. In accordance with NYSDOH guidance (NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005), a tracer gas (helium) was used as a quality assurance/quality control device to verify the integrity of the sampling point seal prior to collecting the samples. Prior to testing and collecting samples, the surface immediately surrounding the polyethylene tubing of the soil vapor probe was sealed using a 1 ft by 1 ft square sheet of 2 mil HDPE plastic firmly adhered to a wetted layer of granular bentonite. The seal was then tested by enriching the air space above the seal with a tracer gas (helium) while continuously monitoring air drawn from the implant with a helium detector (Dielectric Model MGD-2002, Multi-Gas Detector) for a minimum of 15 minutes. The tracer gas test procedure was employed at all sampling locations. No surface seal leaks were observed at any of the locations.

Following verification that the surface seal was tight, one to three volumes (i.e., the volume of the sample probe and tube) of air was purged from the implant using a calibrated vacuum pump. After purging, a 6-liter Summa® canister, fitted with a 2-hour flow regulator, was attached to the surface tube of each of the four soil vapor probes and sub-slab implant. Prior to initiating sample collection, sample identification, canister number, date and start time were recorded on tags attached to each canister and in a bound field notebook. Sampling then proceeded by fully opening the flow control valve on each canister in turn. Immediately after opening the flow control valve on a canister, the initial vacuum (inches of mercury) was recorded in the field book and on the sample tag. When the vacuum level in the canister was between 5 and 8 inches of mercury (approximately 2 hours), the flow controller valve was closed, and the final vacuum recorded in the field notebook and on the sample tag.

The sample identification, date, start time, start vacuum, end time and end vacuum were recorded on tags attached to each canister and on a sample log sheet (Attachment C). Samples were submitted to Phoenix for laboratory analysis of VOCs EPA Method TO-15.

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Vertex - Phase II Limited Subsurface Site Investigation – July 2014

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Alpha Analytical Labs.
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was Alpha Analytical Labs.
Chemical Analytical Methods	Soil analytical methods: <ul style="list-style-type: none">• VOCs by EPA Method 8260C (rev. 2006);• SVOCs by EPA Method 8270• Lead by EPA Method 6010

HydroTech Remedial Investigation – June/October 2016

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Mark Robbins of HydroTech.
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was Phoenix Environmental Laboratories
Chemical Analytical Methods	Soil and Groundwater analytical methods: <ul style="list-style-type: none">• TAL Metals by EPA Method 6010C (rev. 2007);• Dissolved Metals by EPA Method 6010C – GW only (rev. 2007)• VOCs by EPA Method 8260C (rev. 2006);• SVOCs by EPA Method 8270D (rev. 2007);• Pesticides by EPA Method 8081B (rev. 2000);• PCBs by EPA Method 8082A (rev. 2000); Soil Vapor analytical methods: <ul style="list-style-type: none">• VOCs by TO-15 parameters.

BEC- Phase II Remedial Investigation - October 2023

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Sarah Bell at Phoenix Environmental Laboratories
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was Phoenix Environmental Laboratories
Chemical Analytical Methods	<p>Soil analytical methods:</p> <ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • 1,4-dioxane by EPA Method 8270D (SIM) SB4(10-12); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); <p>Soil Vapor analytical methods:</p> <ul style="list-style-type: none"> • VOCs by TO-15 parameters.

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Doug Bertel at York Analytical Laboratories, Inc.
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and York Analytical Laboratories, Inc.
Chemical Analytical Methods	<p>Soil and groundwater analytical methods SB3(4-6)</p> <ul style="list-style-type: none"> • Per- and Polyfluoroalkyl Substances (PFAS) compounds by EPA Method 537 Modified – Full PFAS Target Analyte List (21 compounds)

Results of Chemical Analyses

Laboratory data for soil, groundwater soil vapor are summarized in Tables 2A through 11B. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix F and Appendix G.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Interpretations of all geologic and hydrogeologic data presented in this section has been made by the QEP responsible for oversight of this RIR.

Stratigraphy

The stratigraphy of the Site based on the soil borings performed by Vertex and BEC, from below slab down, consists of fine brown sand with some ash to approximately 3 ft below sidewalk grade underlain with medium to fine silty sand at least 12 ft below grade. Boring logs are provided in Appendix B.

Hydrogeology

No LNAPL was noted in MW-1. The depth of groundwater was encountered at 60.34 ft bsg. Based on review of topographical maps, the regional groundwater flow is likely towards the northeast.

5.2 Soil Chemistry

Data collected during this Remedial Investigation is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. Summary tables of data for chemical analyses performed on soil samples collected during this investigation is included as Tables 2A through 6. Figure 6 shows the locations and posted values for soil/fill that exceed the 6NYCRR Part 375-6.8 Unrestricted Use, Residential and Restricted Residential Use Soil Cleanup Objectives.

Soil/fill samples collected during the July 2014 Phase II Limited Subsurface Site Investigation performed by The Vertex Companies, Inc., and the October 2023 Remedial Investigation performed by BEC were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs), Residential Soil Cleanup Objectives (RSCO), and Restricted Residential Soil Cleanup Objectives (RRSCO) as presented in 6NYCRR Part 375-6.8 and CP51. Soil/fill samples showed the following:

- No PCBs were detected above their Unrestricted Use SCOs within any of the soil samples.
- One VOC, acetone (61 µg/kg), was detected above Unrestricted Use SCOs within one sample during the BEC Phase II RI. Several other VOCs were detected at a trace concentrations in the soil samples collected during the Vertex Phase II LSI, during the HydroTech RI, and during the BEC Phase II RI;

- Five SVOCs including, benz(a)anthracene (max. of 1,600 µg/kg), benzo(a)pyrene (max. of 1,700 µg/kg), benzo(b)fluoranthene (max. of 2,000 µg/kg), chrysene (max. of 1,700 µg/kg), and indeno(1,2,3-cd)pyrene (max. of 1,000 µg/kg) were detected above Restricted Residential Use SCO's in sample SB-2 and the duplicate (SB-2) during the BEC Phase II RI;
- Pesticides including 4,4'-DDE (at 23 µg/Kg in SB1 0-2' bcf), 4,4'-DDT (max. of 13 µg/Kg in SB1 0-2' bcf), a-Chlordane (at 140 µg/Kg in SB1 0-2' bcf), and dieldrin (at 17 µg/Kg in SB1 0-2' and 10-12') were detected above UUSCO's during the BEC Phase II RI;
- Six metals, including cadmium (at 3.17 mg/Kg in SB2 0-2' bcf), copper (max. of 159 mg/Kg in SB2 0-2' bcf), lead (max. of 2,220 mg/Kg in duplicate sample from SB2 0-2' bcf), mercury (0.24 mg/Kg in SB2 0-2' bcf), nickel (max. of 103 mg/Kg in SB1 0-2' bcf), and zinc (max. of 304 mg/Kg in SB2 0-2' bcf) were detected above UUSCO's during the BEC Phase II RI. Of these metals, cadmium was detected above Residential SCO's (RSCOS) within SB2 0-2' bcf and lead was also detected above its RRSCO's SB2 0-2' bcf and the duplicate samples;
- No PFAS compounds were detected within the SB3 4-6' soil sample retained for analysis during the BEC Phase II RI; and
- Overall, the soil results were consistent with data identified at sites with historic fill material and native soil in NYC.

5.3 Groundwater Chemistry

Data collected during the HydroTech RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of the data for chemical analyses performed on groundwater samples is included in Tables 7 through 10. Exceedances of applicable groundwater standards are shown on Figure 7. The figure shows the locations and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards (GQS).

Groundwater sample collected during the June/October 2016 Remedial Investigation performed by HydroTech Environmental Corp. was compared to NYSDEC Part 703 Groundwater Quality Standards (Class GA). Groundwater samples showed the following:

- No Pesticides or PCBs were detected in the groundwater sample collected;
- No VOCs or SVOCs were detected above their respective GQSs in the groundwater sample collected. No PCE or its derivative compounds were detected in the groundwater sample.
- Two dissolved metals including manganese (max. of 718 µg/L) and sodium (max. of 35,000 µg/L) were detected in the groundwater sample at concentrations exceeding their respective GQSs.
- The HydroTech RI groundwater sample indicates the groundwater has not been impacted by Site conditions.

5.4 Soil Vapor Chemistry

Data collected during the RI performed by BEC is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on all the soil vapor samples collected at the Site is included in Table 11A and 11B. Figure 8 shows the location and posts the values for soil vapor samples with detected concentrations.

Soil vapor samples collected during the October 2023 RI were compared to the compounds listed in Table 3.1 of the Air Guideline Values Derived by the NYSDOH located in the New York

State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion dated October 2006 and the revised NYSDOH Decision Matrices dated May 2017.

- The soil vapor results from indicated very low levels of petroleum related VOCs and chlorinated (CVOCS) during the HydroTech RI and during the BEC Phase II RI, with the exception of tetrachloroethene (max. of 15,000 $\mu\text{g}/\text{m}^3$) detected during the HydroTech RI;
- Total concentrations of petroleum-related VOCs (BTEX) within the thirteen soil vapor samples ranged from 50.16 $\mu\text{g}/\text{m}^3$ (SV-3 – BEC Phase II RI) to 177.9 $\mu\text{g}/\text{m}^3$ (SV-5 – HydroTech RI);
- CVOC methylene chloride was detected at 16 $\mu\text{g}/\text{m}^3$ in one soil vapor sample from SV-1 during the HydroTech RI;
- CVOC, tetrachloroethene (PCE), ranged between non-detect (SV-4 and SV-6 – HydroTech RI) to 15,000 $\mu\text{g}/\text{m}^3$ (SSB-1 – HydroTech RI);
- The chlorinated VOCs 1,1,1-trichloroethane (TCA), 1,1-dichloroethene, carbon tetrachloride, cis-1,2-dichloroethene, trichloroethene (TCE) and vinyl chloride were not detected within any of the soil vapor samples collected during the HydroTech RI and the BEC Phase II RI; and
- The chlorinated VOC, tetrachloroethene (PCE), was detected in 9 of the 13 soil vapor samples above the monitoring/mitigation level range established within the NYSDOH soil vapor guidance matrix.

5.5 Prior Activity

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected for the Site.

5.6 Impediments to Remedial Action

There are no known impediments to remedial action at this property.

TABLES

Table 1
28 Putnam Avenue Brooklyn, New York
Vertex Phase II LSI/ HydroTech RI/ BEC Phase II Remedial Investigation
Soil Boring/Monitoring Well/Soil Vapor Implant Information

	SAMPLE ID	Date	Total Depth (ft. bsg.)	Total Depth (ft. bcg.)	Diameter (in)	Construction Materials	Screen Length (ft)	DTW (ft)
Vertex Phase II LSI August 2014	VTX-01	7/9/2014	8.5' bsg	-	2	Geoprobe	-	-
	VTX-02	7/9/2014	9.0' bsg	-	2	Geoprobe	-	-
	VTX-03	7/9/2014	10.0' bsg	-	2	Geoprobe	-	-
	VTX-04	7/9/2014	6.5' bsg	-	2	Geoprobe	-	-
	VTX-05	7/9/2014	3.5' bsg	-	2	Geoprobe	-	-
	VTX-06	7/9/2014	8.0' bsg	-	2	Geoprobe	-	-
	VTX-07	7/9/2014	8.0' bsg	1' bcg	2	Hand equipment	-	-
	VTX-08	7/9/2014	8.0' bsg	-	2	Geoprobe	-	-
	TW-2	8/7/2014	20.0' bsg	-	2	Geoprobe	-	-
HydroTech Remedial Investigation June/October 2016	SP-1	6/3/2016	10.0' bsg	3' bcg	1	Geoprobe		
	SP-2	6/3/2016	12.0' bsg		1	Geoprobe		
	SP-3	6/3/2016	12.0' bsg		1	Geoprobe		
	MW-1	6/6/2016	69.0' bsg		1	Geoprobe	15'	60.34
	SSB-1	6/3/2016	8.5' bsg	1.5' bcg	1	Hand Equipment		
	SSB-1A	10/11/2016	9.0' bsg	2.0' bcg	1	Hand Equipment		
	SSB-2	10/11/2016	9.0' bsg	2.0' bcg	1	Hand Equipment		
	SV-1	6/3/2016	12.0' bsg		1	Geoprobe		
	SV-2	6/3/2016	12.0' bsg		1	Geoprobe		
	SV-3	10/11/2016	10.0' bsg		1	Geoprobe		
	SV-4	10/11/2016	10.0' bsg		1	Geoprobe		
	SV-5	10/11/2016	10.0' bsg		1	Geoprobe		
	SV-6	10/11/2016	10.0' bsg		1	Geoprobe		
	SV-7	10/11/2016	10.0' bsg		1	Geoprobe		
BEC Remedial Investigation October 2023	SB-1	10/10/2023	9.0' bsg	2.0' bcg	1	Hand Equipment	-	-
	SB-2	10/10/2023	9.0' bsg	2.0' bcg	1	Hand Equipment	-	-
	SB-3	10/9/2023	6.0' bsg		1	Geoprobe 420M	-	-
	SB-4	10/9/2023	12.0' bsg		1	Geoprobe 420M	-	-
	SV-1	10/9/2023	4.0' bsg		1	6" Soil Vapor Implant	-	-
	SV-2	10/9/2023	4.0' bsg		1	6" Soil Vapor Implant	-	-
	SV-3	10/9/2023	4.0' bsg		1	6" Soil Vapor Implant	-	-
	SV-4	10/9/2023	12' bsg		1	6" Soil Vapor Implant	-	-

* - Assume cellar is 7 ft below sidewalk grade

Table 2A
Vertex Phase II LSI/ HydroTech RI
Soil Samples Analytical Results for VOCs
29 Putnam Avenue, Brooklyn, NY

Sample ID	VTX-1 (7'-7.5')			VTX-2 (5'-5.5')			VTX-3 (0-0.5')			VTX-4 (0-.5')			VTX-5 (0-0.5')			VTX-06 (7.5'-8')			VTX-7 (7'-7.5')			VTX-8 (0-0.5')			VTX-8 (7.5'-8')			SP-1 (7'-9')			SP-1 (9'-10')			SP-2 (0-2')			SP-2 (10'-12')			SP-3 (0-2')			SP-3 (10'-12')			NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	
Sampling Date	7/9/2014			7/9/2014			7/9/2014			7/9/2014			7/9/2014			7/9/2014			7/9/2014			7/9/2014			7/9/2014			6/3/2016			6/3/2016			6/3/2016			6/3/2016			6/3/2016			6/3/2016					
Client Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil					
Compound	Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result								
Units	mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q				
1,1,1,2-Tetrachloroethane	0.0014	U		0.0013	U		0.0012	U		0.0012	U		0.0011	U		0.0014	U		0.001	U		0.0014	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		NS		NS
1,1,1-Trichloroethane	0.0014	U		0.0013	U		0.0012	U		0.0012	U		0.0011	U		0.0014	U		0.001	U		0.0014	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		0.68		100
1,1,2,2-Tetrachloroethane	0.0014	U		0.0013	U		0.0012	U		0.0012	U		0.0011	U		0.0014	U		0.001	U		0.0014	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		NS		NS
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0021	U		0.0019	U		0.0018	U		0.0017	U		0.0016	U		0.0016	U		0.0016	U		0.002	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		NS		NS
1,1,2-Trichloroethane	NT			NT			NT			NT			NT			NT			NT			NT			0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		NS		NS
1,1-Dichloroethane	0.0021	U		0.0019	U		0.0018	U		0.0017	U		0.0016	U		0.0021	U		0.0016	U		0.002	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		0.27		26
1,1-Dichloroethylene	0.0014	U		0.0013	U		0.0012	U		0.0012	U		0.0011	U		0.0014	U		0.001	U		0.0014	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		0.33		100
1,1-Dichloropropylene	0.007	U		0.0064	U		0.0062	U		0.0058	U		0.0055	U		0.007	U		0.0052	U		0.0068	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		NS		NS
1,2,3-Trichlorobenzene	0.007	U		0.0064	U		0.0062	U		0.0058	U		0.0055	U		0.007	U		0.0052	U		0.0068	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		NS		NS
1,2,3-Trichloropropane	0.014	U		0.013	U		0.012	U		0.012	U		0.011	U		0.014	U		0.01	U		0.014	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		NS		NS
1,2,4-Trichlorobenzene	0.007	U		0.0064	U		0.0062	U		0.0058	U		0.0055	U		0.007	U		0.0052	U		0.0068	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		NS		NS
1,2,4-Trimethylbenzene	0.007	U		0.0064	U		0.0062	U		0.0058	U		0.0055	U		0.007	U		0.0052	U		0.0068	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		3.6		52
1,2-Dibromo-3-chloropropane	0.007	U		0.0064	U		0.0062	U		0.0058	U		0.0055	U		0.007	U		0.0052	U		0.0068	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		NS		NS
1,2-Dibromoethane	0.0056	U		0.0051	U		0.0049	U		0.0046	U		0.0044	U		0.0056	U		0.0042	U		0.0054	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		NS		NS
1,2-Dichlorobenzene	0.007	U		0.0064	U		0.0062	U		0.0058	U		0.0055	U		0.007	U		0.0052	U		0.0068	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		1.1		100
1,2-Dichloroethane	0.0014	U		0.0013	U		0.0012	U		0.0012	U		0.0011	U		0.0014	U		0.001	U		0.0014	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		0.02		3.1
1,2-Dichloropropane	0.0049	U		0.0045	U		0.0043	U		0.004	U		0.0039	U		0.0049	U		0.0036	U		0.0048	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		NS		NS
1,3,5-Trimethylbenzene	0.007	U		0.0064	U		0.0062	U		0.0058	U		0.0055	U		0.007	U		0.0052	U		0.0068	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		8.4		52
1,3-Dichlorobenzene	0.007	U		0.0064	U		0.0062	U		0.0058	U		0.0055	U		0.007	U		0.0052	U		0.0068	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		2.4		49
1,3-Dichloropropane	0.007	U		0.0064	U		0.0062	U		0.0058	U		0.0055	U		0.007	U		0.0052	U		0.0068	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		NS		NS
1,4-Dichlorobenzene	0.007	U		0.0064	U		0.0062	U		0.0058	U		0.0055	U		0.007	U		0.0052	U		0.0068	U		0.0030	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0026	U		0.0034	U		1.8		13
1,4-Dioxane	NT			NT			NT			NT			NT			NT			NT			NT			0.061	U		0.052	U		0.051	U		0.052	U		0.051	U		0.068	U		0.1		13			
2,2-Dichloropropane	0.007	U		0.0064	U		0.0062	U		0.0058	U		0.0055	U		0.007	U		0.0052	U		0.0068	U		0.0030	U		0.0026	U		0.0026	U																

Table 2B
28 Putnam Avenue
Brooklyn, New York
BEC Remedial Investigation
Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Residential Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1		SB2		SB3				SB4				Duplicate	
				(0-2' bcg)		(0-2' bcg)		(0-2' bsg)		(4-6' bsg)		(0-2' bsg)		(10-12' bsg)			
				10/10/2023		10/10/2023		10/9/2023		10/9/2023		10/9/2023		10/9/2023			
				µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
	µg/Kg	µg/Kg	µg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<24	24	<6.2	6.2	<25	25	<7.0	7.0
1,1,1-Trichloroethane	680	100,000	100,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,1,2,2-Tetrachloroethane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,1,2-Trichloroethane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,1-Dichloroethane	270	19,000	26,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,1-Dichloroethene	330	100,000	100,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,1-Dichloropropene				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,2,3-Trichlorobenzene				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,2,3-Trichloropropane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,2,4-Trichlorobenzene				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,2,4-Trimethylbenzene	3,600	47,000	52,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,2-Dibromo-3-chloropropane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,2-Dibromoethane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,2-Dichlorobenzene	1,100	100,000	100,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,2-Dichloroethane	20	2,300	3,100	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,2-Dichloropropane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,3,5-Trimethylbenzene	8,400	47,000	52,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,3-Dichlorobenzene	2,400	17,000	4,900	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,3-Dichloropropane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
1,4-dioxane				<95	95	<96	96	<100	100	<91	91	<93	93	<92	92	<100	100
1,4-Dichlorobenzene	1,800	9,800	13,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
2,2-Dichloropropane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
2-Chlorotoluene				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
2-Hexanone				<32	32	<32	32	<36	36	<30	30	<31	31	<31	31	<35	35
2-Isopropyltoluene				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
4-Chlorotoluene				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
4-Methyl-2-Pentanone				<32	32	<32	32	<36	36	<30	30	<31	31	<31	31	<35	35
Acetone	50	100,000	100,000	23	32	43	32	27	36	61	30	26	31	32	31	<35	35
Acrolein				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Acrylonitrile				<13	13	<13	13	<29	29	<12	12	<12	12	<25	25	<14	14
Benzene	60	2,900	4,800	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Bromobenzene				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Bromochloromethane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Bromodichloromethane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Bromoform				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Bromomethane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Carbon Disulfide				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	2.8	6.1	<7.0	7.0
Carbon tetrachloride	760	1,400	2,400	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Chlorobenzene	1,100	100,000	100,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Chloroethane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Chloroform	370	10,000	49,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Chloromethane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
cis-1,2-Dichloroethene	250	59,000	100,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
cis-1,3-Dichloropropene				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Dibromochloromethane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Dibromomethane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Dichlorodifluoromethane				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Ethylbenzene	1,000	30,000	41,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Hexachlorobutadiene				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Isopropylbenzene				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
m&p-Xylenes	260		100,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Methyl Ethyl Ketone (2-Butanone)	120	100,000	100,000	<38	38	<38	38	<43	43	<37	37	<37	37	<37	37	<42	42
Methyl t-butyl ether (MTBE)	930	62,000	100,000	<13	13	<13	13	<14	14	<12	12	<12	12	<12	12	<14	14
Methylene chloride	50	51,000	100,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Napthalene	12,000	100,000	100,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
n-Butylbenzene	12,000	100,000	100,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
n-Propylbenzene	3,900	100,000	100,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
o-Xylene	260		100,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
p-Isopropyltoluene				<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
sec-Butylbenzene	11,000	100,000	100,000	<6.3	6.3	<6.4	6.4	<7.2	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
Styrene				<6.3	6.3	<6.4	6.4	0.73	7.2	<6.1	6.1	<6.2	6.2	<6.1	6.1	<7.0	7.0
tert-Butyl alcohol				<130	130	<130	130	<140	140	<120	120	<120	120	<120	120	<140	140

Table 3A
Vertex Phase II LSI/ HydroTech RI
Soil Samples Analytical Results for SVOCs
28 Putnam Avenue, Brooklyn, NY

Sample ID	VTX-1 (7'-7.5')			VTX-2 (5'-5.5')			VTX-3 (0-0.5')			VTX-4 (0-.5')			VTX-5 (0-0.5')			VTX-6 (7.5'-8')			VTX-7 (7'-7.5')			VTX-8 (0-0.5')			VTX-8 (7.5'-8')			SP-1 (7'-9')		SP-1 (9'-10')		SP-2 (0-2')		SP-2 (10'-12')		SP-3 (0-2')		SP-3 (10'-12')		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential							
Sampling Date	7/9/2014			7/9/2014			7/9/2014			7/9/2014			7/9/2014			7/9/2014			7/9/2014			7/9/2014			7/9/2014			6/3/2016		6/3/2016		6/3/2016		6/3/2016		6/3/2016		6/3/2016										
Client Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		Soil		Soil		Soil		Soil									
Compound	Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result		Result		Result		Result											
Units	mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q							
1,2,4-Trichlorobenzene	0.17	U		0.17	U		0.18	U		0.18	U		0.18	U		0.17	U		NT			0.18	U		0.17	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
1,2-Dichlorobenzene	0.17	U		0.17	U		0.18	U		0.18	U		0.18	U		0.17	U		NT			0.18	U		0.17	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		1.1		100			
1,3-Dichlorobenzene	0.17	U		0.17	U		0.18	U		0.18	U		0.18	U		0.17	U		NT			0.18	U		0.17	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		2.4		49			
1,4-Dichlorobenzene	0.17	U		0.17	U		0.18	U		0.18	U		0.18	U		0.17	U		NT			0.18	U		0.17	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		1.8		13			
2,4,5-Trichlorophenol	0.17	U		0.17	U		0.18	U		0.18	U		0.18	U		0.17	U		NT			0.18	U		0.17	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
2,4,6-Trichlorophenol	0.1	U		0.1	U		0.11	U		0.11	U		0.11	U		0.1	U		NT			0.11	U		0.1	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
2,4-Dichlorophenol	0.15	U		0.15	U		0.16	U		0.17	U		0.16	U		0.15	U		NT			0.16	U		0.15	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
2,4-Dimethylphenol	0.15	U		0.15	U		0.16	U		0.17	U		0.16	U		0.15	U		NT			0.16	U		0.15	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
2,4-Dinitrophenol	0.15	U		0.15	U		0.16	U		0.17	U		0.16	U		0.15	U		NT			0.16	U		0.15	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
2,4-Dinitrotoluene	0.15	U		0.15	U		0.16	U		0.17	U		0.16	U		0.15	U		NT			0.16	U		0.15	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
2,6-Dinitrotoluene	0.17	U		0.17	U		0.18	U		0.18	U		0.18	U		0.17	U		NT			0.18	U		0.17	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
2-Chloronaphthalene	0.17	U		0.17	U		0.18	U		0.18	U		0.18	U		0.17	U		NT			0.18	U		0.17	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
2-Chlorophenol	0.17	U		0.17	U		0.18	U		0.18	U		0.18	U		0.17	U		NT			0.18	U		0.17	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
2-Methylnaphthalene	0.2	U		0.2	U		0.21	U		0.22	U		0.21	U		0.2	U		NT			0.21	U		0.2	U		0.044	U		0.044	U		0.044	U		0.043	U		0.16	D		0.043	U		NS		NS
2-Methylphenol	0.17	U		0.17	U		0.18	U		0.18	U		0.18	U		0.17	U		NT			0.18	U		0.17	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		0.33		100			
2-Nitroaniline	0.17	U		0.17	U		0.18	U		0.18	U		0.18	U		0.17	U		NT			0.18	U		0.17	U		0.087	U		0.089	U		0.087	U		0.085	U		0.087	U		NS		NS			
2-Nitrophenol	0.37	U		0.36	U		0.39	U		0.4	U		0.38	U		0.36	U		NT			0.38	U		0.36	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
3- & 4-Methylphenols	0.24	U		0.24	U		0.25	U		0.26	U		0.25	U		0.23	U		NT			0.25	U		0.24	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
3,3'-Dichlorobenzidine	0.17	U		0.17	U		0.18	U		0.18	U		0.18	U		0.17	U		NT			0.18	U		0.17	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
3-Nitroaniline	0.17	U		0.17	U		0.18	U		0.18	U		0.18	U		0.17	U		NT			0.18	U		0.17	U		0.087	U		0.089	U		0.087	U		0.085	U		0.087	U		NS		NS			
4,6-Dinitro-2-methylphenol	NT			NT			NT			NT			NT			NT			NT			NT			NT			0.087	U		0.089	U		0.087	U		0.085	U		0.087	U		NS		NS			
4-Bromophenyl phenyl ether	0.17	U		0.17	U		0.18	U		0.18	U		0.18	U		0.17	U		NT			0.18	U		0.17	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
4-Chloro-3-methylphenol	NT			NT			NT			NT			NT			NT			NT			NT			NT			0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
4-Chloroaniline	0.17	U		0.17	U		0.18	U		0.18	U		0.18	U		0.17	U		NT			0.18	U		0.17	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
4-Chlorophenyl phenyl ether	0.17	U		0.17	U		0.18	U		0.18	U		0.18	U		0.17	U		NT			0.18	U		0.17	U		0.044	U		0.044	U		0.044	U		0.043	U		0.044	U		NS		NS			
4-Nitroaniline	NT			NT			NT			NT			NT			NT			NT			NT			NT			0.087	U		0.089	U		0.087	U		0.085	U		0.087	U		NS		NS			
4-Nitrophenol	0.24	U		0.24	U		0.25	U		0.26	U		0.25	U		0.23	U		NT			0.25	U		0.24	U		0.087	U		0.089	U		0.087	U		0.085	U		0.087	U		NS		NS			
Acenaphthene	0.14	U		0.13	U		0.14	U		0.15	U		0.14	U		0.13	U		NT			0.14	U		0.14	U		0.044	U		0.044	U		0.044	U		0.043	U		0.43	D		0.043	U		20		100
Acenaphthylene	0.14	U		0.13	U		0.14	U		0.15	U		0.14	U		0.13	U		NT			0.14	U		0.14	U		0.044	U																			

Table 3B
28 Putnam Avenue
Brooklyn, New York
BEC Remedial Investigation
Soil Analytical Results
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Residential Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1		SB2		SB3				SB4				Duplicate	
				(0-2' bcg)		(0-2' bcg)		(0-2' bsg)		(4-6' bsg)		(0-2' bsg)		(10-12' bsg)		(0-2' bcg)	
				10/10/2023		10/10/2023		10/9/2023		10/9/2023		10/9/2023		10/9/2023		10/10/2023	
				µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg		
				Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
1,2,4-Trichlorobenzene				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
1,2-Dichlorobenzene	1,100	100,000	100,000	< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
1,2-Diphenylhydrazine				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
1,3-Dichlorobenzene	2,400	17,000	49,000	< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
1,4-Dichlorobenzene	1,800	9,800	13,000	< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
2,2'-Oxybis(1-Chloropropane)				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
2,4,5-Trichlorophenol				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
2,4,6-Trichlorophenol				< 180	180	< 190	190	< 210	210	< 170	170	< 180	180	< 170	170	< 190	190
2,4-Dichlorophenol				< 180	180	< 190	190	< 210	210	< 170	170	< 180	180	< 170	170	< 190	190
2,4-Dimethylphenol				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
2,4-Dinitrophenol				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
2,4-Dinitrotoluene				< 180	180	< 190	190	< 210	210	< 170	170	< 180	180	< 170	170	< 190	190
2,6-Dinitrotoluene				< 180	180	< 190	190	< 210	210	< 170	170	< 180	180	< 170	170	< 190	190
2-Chloronaphthalene				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
2-Chlorophenol				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
2-Methylnaphthalene				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	140	270
2-Methylphenol (o-cresol)	330	100000	100,000	< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
2-Nitroaniline				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
2-Nitrophenol				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
3&4-Methylphenol (m&p-cresol)				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
3,3'-Dichlorobenzidine				< 180	180	< 190	190	< 210	210	< 170	170	< 180	180	< 170	170	< 190	190
3-Nitroaniline				< 370	370	< 380	380	< 420	420	< 330	330	< 350	350	< 330	330	< 380	380
4,6-Dinitro-2-methylphenol				< 220	220	< 230	230	< 250	250	< 200	200	< 210	210	< 200	200	< 230	230
4-Bromophenyl phenyl ether				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
4-Chloro-3-methylphenol				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
4-Chloroaniline				< 290	290	< 310	310	< 340	340	< 270	270	< 280	280	< 270	270	< 310	310
4-Chlorophenyl phenyl ether				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
4-Nitroaniline				< 370	370	< 380	380	< 420	420	< 330	330	< 350	350	< 330	330	< 380	380
4-Nitrophenol				< 370	370	< 380	380	< 420	420	< 330	330	< 350	350	< 330	330	< 380	380
Acenaphthene	20,000	100,000	100,000	< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	250	270
Acenaphthylene	100,000	100,000	100,000	< 260	260	570	270	< 300	300	< 230	230	< 250	250	< 230	230	200	270
Acetophenone				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
Aniline				< 290	290	< 310	310	< 340	340	< 270	270	< 280	280	< 270	270	< 310	310
Anthracene	100,000	100,000	100,000	< 260	260	440	270	< 300	300	< 230	230	< 250	250	< 230	230	460	270
Benz(a)anthracene	1,000	1,000	1,000	270	260	1,600	270	< 300	300	< 230	230	< 250	250	< 230	230	1,400	270
Benzzidine				< 370	370	< 380	380	< 420	420	< 330	330	< 350	350	< 330	330	< 380	380
Benzo(a)pyrene	1,000	1,000	1,000	280	180	1,700	190	< 210	210	< 170	170	< 180	180	< 170	170	1,200	190
Benzo(b)fluoranthene	1,000	1,000	1,000	350	260	2,000	270	< 300	300	< 230	230	< 250	250	< 230	230	1,600	270
Benzo(ghi)perylene	100,000	100,000	100,000	150	260	990	270	< 300	300	< 230	230	< 250	250	< 230	230	630	270
Benzo(k)fluoranthene	800	1000	3,900	120	260	770	270	< 300	300	< 230	230	< 250	250	< 230	230	570	270
Benzoic acid				< 1800	1,800	< 1900	1,900	< 2100	2,100	< 1700	1,700	< 1800	1,800	< 1700	1,700	< 1900	1,900
Benzyl butyl phthalate				< 260	260	640	270	< 300	300	< 230	230	< 250	250	< 230	230	530	270
Bis(2-chloroethoxy)methane				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
Bis(2-chloroethyl)ether				< 180	180	< 190	190	< 210	210	< 170	170	< 180	180	< 170	170	< 190	190
Bis(2-ethylhexyl)phthalate				< 260	260	400	270	< 300	300	< 230	230	< 250	250	< 230	230	390	270
Carbazole				< 180	180	< 190	190	< 210	210	< 170	170	< 180	180	< 170	170	200	190
Chrysene	1,000	1,000	3,900	290	260	1,700	270	< 300	300	< 230	230	< 250	250	< 230	230	1,400	270
Dibenz(a,h)anthracene	330	330	330	< 180	180	260	190	< 210	210	< 170	170	< 180	180	< 170	170	160	190
Dibenzofuran	7,000	14,000	59,000	< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	240	270
Diethyl phthalate				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
Dimethylphthalate				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
Di-n-butylphthalate				< 260	260	380	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
Di-n-octylphthalate				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
Fluoranthene	100,000	100,000	100,000	360	260	1,600	270	< 300	300	< 230	230	< 250	250	< 230	230	2,900	270
Fluorene	30,000	100,000	100,000	< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	260	270
Hexachlorobenzene	330	330	1200	< 180	180	< 190	190	< 210	210	< 170	170	< 180	180	< 170	170	< 190	190
Hexachlorobutadiene				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
Hexachlorocyclopentadiene				< 260	260	< 270	270	< 300	300	< 230	230	< 250	250	< 230	230	< 270	270
Hexachloroethane				< 180	180	< 190	190	<									

Table 4A
Vertex Phase II LSI/ HydroTech RI
Soil Samples Analytical Results for Pesticides and PCBs
28 Putnam Avenue, Brooklyn, NY

Sample ID	VTX-1 (7'-7.5')			VTX-2 (5'-5.5')			VTX-3 (0-0.5')			VTX-4 (0-.5')			VTX-5 (0-0.5')			VTX-06 (7.5'-8')			VTX -7 (7'-7.5')			VTX-8 (0-0.5')			VTX -8 (7.5'-8')			SP-1 (7'-9')			SP-1 (9'-10')			SP-2 (0-2')			SP-2 (10'-12')			SP-3 (0-2')			SP-3 (10'-12')			NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential
Sampling Date	7/9/2014			7/9/2014			7/9/2014			7/9/2014			7/9/2014			7/9/2014			7/9/2014			7/9/2014			7/9/2014			6/3/2016			6/3/2016			6/3/2016			6/3/2016			6/3/2016			6/3/2016				
Client Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil				
Compound	Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result							
Units	mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q		mg/Kg	Q			
4,4'-DDD	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		0.0033		13		
4,4'-DDE	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		0.0033		8.9		
4,4'-DDT	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		0.0033		7.9		
Aldrin	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		0.005		0.68		
alpha-BHC	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		0.02		3.4		
alpha-Chlordane	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		0.094		24		
Aroclor 1016	NT			NT			NT			NT			NT			NT			NT			NT			0.017	U		0.018	U		0.017	U		0.017	U		0.018	U		0.017	U		NS		NS		
Aroclor 1221	NT			NT			NT			NT			NT			NT			NT			NT			0.017	U		0.018	U		0.017	U		0.017	U		0.018	U		0.017	U		NS		NS		
Aroclor 1232	NT			NT			NT			NT			NT			NT			NT			NT			0.017	U		0.018	U		0.017	U		0.017	U		0.018	U		0.017	U		NS		NS		
Aroclor 1242	NT			NT			NT			NT			NT			NT			NT			NT			0.017	U		0.018	U		0.017	U		0.017	U		0.018	U		0.017	U		NS		NS		
Aroclor 1248	NT			NT			NT			NT			NT			NT			NT			NT			0.017	U		0.018	U		0.017	U		0.017	U		0.018	U		0.017	U		NS		NS		
Aroclor 1254	NT			NT			NT			NT			NT			NT			NT			NT			0.017	U		0.018	U		0.017	U		0.017	U		0.018	U		0.017	U		NS		NS		
Aroclor 1260	NT			NT			NT			NT			NT			NT			NT			NT			0.017	U		0.018	U		0.017	U		0.017	U		0.018	U		0.017	U		NS		NS		
beta-BHC	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		0.036		3		
Chlordane, total	NT			NT			NT			NT			NT			NT			NT			NT			0.069	U		0.070	U		0.069	U		0.067	U		0.069	U		0.068	U		NS		NS		
delta-BHC	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		0.04		500		
Dieldrin	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		0.005		3		
Endosulfan I	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		2.4		1.4		
Endosulfan II	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		2.4		200		
Endosulfan sulfate	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		2.4		200		
Endrin	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		0.014		200		
Endrin aldehyde	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		NS		89		
Endrin ketone	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		NS		NS		
gamma-BHC (Lindane)	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		0.1		NS		
gamma-Chlordane	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		NS		9.2		
Heptachlor	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		0.042		NS		
Heptachlor epoxide	NT			NT			NT			NT			NT			NT			NT			NT			0.0017	U		0.0018	U		0.0017	U		0.0017	U		0.0017	U		0.0017	U		NS		15		
Methoxychlor	NT			NT			NT			NT			NT			NT			NT			NT			0.0086	U		0.0088	U		0.0086	U		0.0084	U		0.0087	U		0.0085	U		NS		NS		
Toxaphene	NT			NT			NT			NT			NT			NT			NT			NT			0.087	U		0.089	U		0.087	U		0.085	U		0.088	U		0.086	U		NS		NS		
Total PCBs	NT			NT			NT			NT			NT			NT			NT			NT			0.017	U		0.018	U		0.017	U		0.017	U		0.018	U		0.017	U		0.1		NS		

NOTES:
Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
NS=this indicates that no regulatory limit has been established for this analyte
NT=this indicates the analyte was not a target for this sample

Table 4
28 Putnam Avenue
Brooklyn, New York
BEC Remedial Investigation
Soil Analytical Results
Pesticides PCBs

	COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Residential Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1		SB2		SB3				SB4				Duplicate	
					(0-2' bsg)		(0-2' bsg)		(0-2' bsg)		(4-6' bsg)		(0-2' bsg)		(10-12' bsg)		(0-2' bsg)	
					10/10/2023		10/10/2023		10/9/2023		10/9/2023		10/9/2023		10/9/2023		10/10/2023	
					µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
					Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Pesticides	4,4' -DDD	3.3	2600	13,000	< 7.2	7.2	< 2.2	2.2	< 2.6	2.6	< 2.1	2.1	< 2.1	2.1	< 2.0	2.0	< 2.3	2.3
	4,4' -DDE	3.3	1800	8,900	23	11	< 2.2	2.2	< 2.6	2.6	< 2.1	2.1	< 2.1	2.1	< 2.0	2.0	< 2.3	2.3
	4,4' -DDT	3.3	1700	7,900	13	11	< 2.2	2.2	< 2.6	2.6	< 2.1	2.1	< 2.1	2.1	< 2.0	2.0	9.2	2.3
	a-BHC	20	97	480	< 7.2	7.2	< 7.5	7.5	< 8.7	8.7	< 6.9	6.9	< 6.9	6.9	< 6.8	6.8	< 7.7	7.7
	a-Chlordane	94	910	4,200	140	18	< 3.7	3.7	< 4.4	4.4	< 3.5	3.5	< 3.5	3.5	< 3.4	3.4	< 3.8	3.8
	Alachlor				-	-	-	-	-	-	-	-	-	-	-	-		
	Aldrin	5	19	97	< 7.2	7.2	< 3.7	3.7	< 4.4	4.4	< 3.5	3.5	< 3.5	3.5	< 3.4	3.4	< 3.8	3.8
	b-BHC	36	72	360	< 36	36	< 7.5	7.5	< 8.7	8.7	< 6.9	6.9	< 6.9	6.9	< 6.8	6.8	< 7.7	7.7
	Chlordane				640	180	< 37	37	< 44	44	< 35	35	< 35	35	< 34	34	< 38	38
	d-BHC	40	100,000	100,000	< 36	36	< 7.5	7.5	< 8.7	8.7	< 6.9	6.9	< 6.9	6.9	< 6.8	6.8	< 7.7	7.7
	Dieldrin	5	39	200	17	7.2	< 3.7	3.7	< 4.4	4.4	< 3.5	3.5	< 3.5	3.5	< 3.4	3.4	< 3.8	3.8
	Endosulfan I	2,400	4,800	24,000	< 36	36	< 7.5	7.5	< 8.7	8.7	< 6.9	6.9	< 6.9	6.9	< 6.8	6.8	< 7.7	7.7
	Endosulfan II	2,400	4,800	24,000	< 36	36	< 7.5	7.5	< 8.7	8.7	< 6.9	6.9	< 6.9	6.9	< 6.8	6.8	< 7.7	7.7
	Endosulfan sulfate	2,400	4,800	24,000	< 36	36	< 7.5	7.5	< 8.7	8.7	< 6.9	6.9	< 6.9	6.9	< 6.8	6.8	< 7.7	7.7
	Endrin	14	2,200	11,000	< 18	18	< 7.5	7.5	< 8.7	8.7	< 6.9	6.9	< 6.9	6.9	< 6.8	6.8	< 7.7	7.7
	Endrin aldehyde				< 36	36	< 7.5	7.5	< 8.7	8.7	< 6.9	6.9	< 6.9	6.9	< 6.8	6.8	< 7.5	7.5
	Endrin ketone				< 36	36	< 7.5	7.5	< 8.7	8.7	< 6.9	6.9	< 6.9	6.9	< 6.8	6.8	< 7.7	7.7
	g-BHC		280		< 7.2	7.2	< 1.5	1.5	< 1.7	1.7	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5
	g-Chlordane				84	18	< 3.7	3.7	< 4.4	4.4	< 3.5	3.5	< 3.5	3.5	< 3.4	3.4	< 3.8	3.8
	Heptachlor	42	420	2,100	< 36	36	< 7.5	7.5	< 8.7	8.7	< 6.9	6.9	< 6.9	6.9	< 6.8	6.8	< 7.7	7.7
	Heptachlor epoxide				< 36	36	< 7.5	7.5	< 8.7	8.7	< 6.9	6.9	< 6.9	6.9	< 6.8	6.8	< 7.7	7.7
PCBs	Methoxychlor				< 180	180	< 37	37	< 44	44	< 35	35	< 35	35	< 34	34	< 38	38
	Toxaphene				< 720	720	< 150	150	< 170	170	< 140	140	< 140	140	< 140	140	< 150	150
	PCB-1016	100	1,000		< 72	72	< 75	75	< 87	87	< 69	69	< 69	69	< 68	68	< 77	77
	PCB-1221	100	1,000		< 72	72	< 75	75	< 87	87	< 69	69	< 69	69	< 68	68	< 77	77
	PCB-1232	100	1,000		< 72	72	< 75	75	< 87	87	< 69	69	< 69	69	< 68	68	< 77	77
	PCB-1242	100	1,000		< 72	72	< 75	75	< 87	87	< 69	69	< 69	69	< 68	68	< 77	77
	PCB-1248	100	1,000		< 72	72	< 75	75	< 87	87	< 69	69	< 69	69	< 68	68	< 77	77
	PCB-1254	100	1,000		< 72	72	< 75	75	< 87	87	< 69	69	< 69	69	< 68	68	< 77	77
	PCB-1260	100	1,000		< 72	72	< 75	75	< 87	87	< 69	69	< 69	69	< 68	68	< 77	77
	PCB-1262	100			< 72	72	< 75	75	< 87	87	< 69	69	< 69	69	< 68	68	< 77	77
	PCB-1268	100			< 72	72	< 75	75	< 87	87	< 69	69	< 69	69	< 68	68	< 77	77

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

- Not Analyzed

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSO Guidance Value

Table 5A
Vertex Phase II LSI/ HydroTech RI
Soil Samples Analytical Results for Metals
28 Putnam Avenue, Brooklyn, NY

Sample ID	VTX-1 (7'-7.5')		VTX-2 (5'-5.5')		VTX-3 (0-0.5')		VTX-4 (0-.5')		VTX-5 (0-0.5')		VTX-06 (7.5'-8')		VTX -7 (7'-7.5')		VTX-8 (0-0.5')		VTX -8 (7.5'-8')		SP-1 (7'-9')		SP-1 (9'-10')		SP-2 (0-2')		SP-2 (10'-12')		SP-3 (0-2')		SP-3 (10'-12')		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	
Sampling Date	7/9/2014		7/9/2014		7/9/2014		7/9/2014		7/9/2014		7/9/2014		7/9/2014		7/9/2014		7/9/2014		6/3/2016		6/3/2016		6/3/2016		6/3/2016		6/3/2016		6/3/2016				
Client Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil				
Compound	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result				
Units	mg/Kg	Q	mg/Kg	Q	mg/Kg	Q	mg/Kg	Q	mg/Kg	Q	mg/Kg	Q	mg/Kg	Q	mg/Kg	Q	mg/Kg	Q	mg/Kg	Q	mg/Kg	Q	mg/Kg	Q	mg/Kg	Q	mg/Kg	Q	mg/Kg	Q	mg/Kg	Q	
Aluminum	NT		NT		NT		NT		NT		NT		NT		NT		NT		5,520		7,040		4,980		4,080		7,790		4,390		NS		NS
Antimony	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.52	U	0.53	U	0.52	U	0.51	U	0.52	U	0.52	U	NS		NS
Arsenic	NT		NT		NT		NT		NT		NT		NT		NT		NT		1.04	U	1.20		1.41		1.02	U	1.20		1.03	U	13		16
Barium	NT		NT		NT		NT		NT		NT		NT		NT		NT		32.70		28.30		50.10		52.60		44.40		35.60		350		400
Beryllium	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.13		0.26		0.10	U	0.10	U	0.22		0.10	U	7.2		72
Cadmium	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.31	U	0.32	U	0.31	U	0.31	U	0.32	U	0.31	U	2.5		4.3
Calcium	NT		NT		NT		NT		NT		NT		NT		NT		NT		5,920		283		3,430		1,120		570		437		NS		NS
Chromium	NT		NT		NT		NT		NT		NT		NT		NT		NT		21.70		12.90		14.60		12.20		25.50		12.90		NS		NS
Chromium, Hexavalent	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.52	U	0.53	U	0.52	U	0.51	U	0.52	U	0.52	U	1		110
Chromium, Trivalent	NT		NT		NT		NT		NT		NT		NT		NT		NT		21.70		12.90		14.60		12.20		25.50		12.90		30		180
Cobalt	NT		NT		NT		NT		NT		NT		NT		NT		NT		5.72		6.69		9.69		5.88		6.13		5.75		NS		NS
Copper	NT		NT		NT		NT		NT		NT		NT		NT		NT		12.80		12.60		23.40		30.40		13.90		10.50		50		270
Iron	NT		NT		NT		NT		NT		NT		NT		NT		NT		14,800		21,600		24,300		17,100		18,800		17,500		NS		NS
Lead	NT		NT		NT		NT		NT		3		NT		NT		5.2		6.33		5.13		10.20		7.19		8.88		6.76		63		400
Magnesium	NT		NT		NT		NT		NT		NT		NT		NT		NT		1,980		1,920		3,150		2,230		2,020		1,660		NS		NS
Manganese	NT		NT		NT		NT		NT		NT		NT		NT		NT		356		398		467		421		293		359		1600		2000
Mercury	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.031	U	0.032	U	0.031	U	0.031	U	0.032	U	0.031	U	0.18		0.81
Nickel	NT		NT		NT		NT		NT		NT		NT		NT		NT		17.60		15.60		22.40		19.40		16.60		12.30		30		310
Potassium	NT		NT		NT		NT		NT		NT		NT		NT		NT		886		588		1,170		1,060		918		979		NS		NS
Selenium	NT		NT		NT		NT		NT		NT		NT		NT		NT		1.20		2.09		2.21		1.88		1.87		1.61		3.9		180
Silver	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.52	U	0.53	U	0.52	U	0.51	U	0.52	U	0.52	U	2		180
Sodium	NT		NT		NT		NT		NT		NT		NT		NT		NT		186		67.10		128		103		99.50		88.80		NS		NS
Thallium	NT		NT		NT		NT		NT		NT		NT		NT		NT		1.04	U	1.06	U	1.04	U	1.02	U	1.05	U	1.03	U	NS		NS
Vanadium	NT		NT		NT		NT		NT		NT		NT		NT		NT		21		20.50		30.30		22.60		22.80		20.10		NS		NS
Zinc	NT		NT		NT		NT		NT		NT		NT		NT		NT		29.70		41.60		50.70		42.90		46.60		29.70		109		10000

NOTES:
Q is the Qualifier Column with definitions as follows:
U=analyte not detected at or above the level indicated
NS=this indicates that no regulatory limit has been established for this analyte
NT=this indicates the analyte was not a target for this sample

Table 5B
28 Putnam Avenue
Brooklyn, New York
BEC Remedial Investigation
Soil Analytical Results
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Residential Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1		SB2		SB3				SB4				Duplicate	
				(0-2' bsg)		(0-2' bsg)		(0-2' bsg)		(4-6' bsg)		(0-2' bsg)		(10-12' bsg)		(0-2' bsg)	
				10/10/2023		10/10/2023		10/9/2023		10/9/2023		10/9/2023		10/9/2023		10/10/2023	
				µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
	mg/Kg	mg/Kg	mg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum				7,600	32	6,320	39	9,060	40	5,740	34	7,600	35	5,370	33	5,780	35
Antimony				< 3.2	3.2	< 3.9	3.9	< 4.0	4.0	< 3.4	3.4	< 3.5	3.5	< 3.3	3.3	< 3.5	3.5
Arsenic	13	16	16	2.14	0.65	5.83	0.79	4.26	0.79	1.47	0.69	2.19	0.70	1.74	0.65	4.17	0.71
Barium	350	350	400	51.9	0.6	144	0.8	46.3	0.8	40.8	0.7	31.8	0.7	47.6	0.7	175	0.7
Beryllium	7.2	14.0	72	0.37	0.26	0.46	0.31	0.41	0.32	0.36	0.27	0.37	0.28	0.36	0.26	0.4	0.28
Cadmium	2.5	2.5	4.3	1.03	0.32	3.17	0.39	1.23	0.40	0.86	0.34	0.86	0.35	0.85	0.33	2.14	0.35
Calcium				7,390	3.2	3,630	3.9	15,100	40	734	3.4	3,060	3.5	1,980	3.3	2,760	3.5
Chromium	30		180	21.6	0.32	22.2	0.39	17.5	0.40	16.9	0.34	17.2	0.35	21.7	0.33	17	0.35
Cobalt				12.5	0.32	8.04	0.39	7.41	0.40	4.46	0.34	5.14	0.35	12.8	0.33	7.08	0.35
Copper	50	270	270	29.1	0.6	159	7.9	23.7	0.8	14.4	0.7	17.9	0.7	20.3	0.7	148	0.7
Iron				18,800	32	38,700	39	26,300	40	22,200	34	21,100	35	21,500	33	25,000	35
Lead	63	400	400	36.4	0.6	2,110	79	40	0.8	5.1	0.7	7.1	0.7	24.1	0.7	2,220	71
Magnesium				6,640	32	2,670	39	5,380	4.0	1,710	3.4	2,260	3.5	2,390	3.3	2,860	3.5
Manganese	1,600	2,000	2,000	448	3.2	749	3.9	256	0.40	239	0.34	242	0.35	778	3.3	662	3.5
Mercury	0.18	0.81	0.81	0.07	0.03	0.24	0.03	< 0.04	0.04	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	0.17	0.03
Nickel	30	140	310	103	0.32	43.6	0.39	14.8	0.40	13.2	0.34	14.5	0.35	21.5	0.33	29	0.35
Potassium				1,300	65	787	8	1,280	79	937	69	1,090	70	1,270	65	1,580	71
Selenium	3.9	36.0	180	< 1.3	1.3	< 1.6	1.6	< 1.6	1.6	< 1.4	1.4	< 1.4	1.4	< 1.3	1.3	< 1.4	1.4
Silver	2	36	180	< 0.32	0.32	< 0.39	0.39	< 0.40	0.40	< 0.34	0.34	< 0.35	0.35	< 0.33	0.33	< 0.35	0.35
Sodium				475	6	332	8	207	8	137	7	125	7	141	7	119	7
Thallium				< 1.3	1.3	< 1.6	1.6	< 1.6	1.6	< 1.4	1.4	< 1.4	1.4	< 1.3	1.3	< 1.4	1.4
Vanadium				28.7	0.32	31.2	0.39	22.7	0.40	31.8	0.34	25.4	0.35	28.8	0.33	28.9	0.35
Zinc	109	2,200	10,000	62.9	0.6	304	7.9	44.6	0.8	34.8	0.7	26.4	0.7	33.6	0.7	291	7.1

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

RL - Reporting Limit

- Not Analyzed

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSO Guidance Value

Table 6
28 Putnam Avenue
Brooklyn, New York
BEC Remedial Investigation
Soil Analytical Results
Emerging Contaminants

Compound	SB3	
	(4-6')	
	10/9/2023	
	µg/Kg	
	Result	DL
Perfluorobutanesulfonic acid (PFBS)	ND	1.23
Perfluorohexanoic acid (PFHxA)	ND	1.23
Perfluoroheptanoic acid (PFHpA)	ND	1.23
Perfluorohexanesulfonic acid (PFHxS)	ND	1.23
Perfluorooctanoic acid (PFOA)	ND	1.23
Perfluorooctanesulfonic acid (PFOS)	ND	1.23
Perfluorononanoic acid (PFNA)	ND	1.23
Perfluorodecanoic acid (PFDA)	ND	1.23
Perfluoroundecanoic acid (PFUnA)	ND	1.23
Perfluorododecanoic acid (PFDoA)	ND	1.23
Perfluorotridecanoic acid (PFTrDA)	ND	1.23
Perfluorotetradecanoic acid (PFTA)	ND	1.23
N-MeFOSAA	ND	1.23
N-EtFOSAA	ND	1.23
Perfluoropentanoic acid (PFPeA)	ND	1.23
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.23
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.23
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.23
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	1.23
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	1.23
Perfluoro-n-butanoic acid (PFBA)	ND	1.23
Combined PFOA and PFOS	0	
Combined Total Detections	0	

Compound	SB4	
	(10-12')	
	10/9/2023	
	µg/Kg	
	Result	DL
1,4-dioxane	< 69	69

Notes:

DL- Detection Limit

RL - Reporting Limit

J- The value is estimated.

ND- Not Detected

The USEPA Health Advisory Level for drinking water is 70 ng/L (ppt) for combined detections of PFOA and PFOs

Table 7
Groundwater Analytical Results for VOCs
28 Putnam Avenue, Brooklyn, NY

Sample ID	MW-1		Field Blank (Soil)		Field Blank (GW)		Trip Blank		NYSDEC TOGS Standards and Guidance Values - GA
Sampling Date	6/8/2016		6/3/2016		6/8/2016		6/8/2016		
Client Matrix	Water		Water		Water		Water		
Compound	Result		Result		Result		Result		
Units	ug/L	Q	ug/L	Q	ug/L	Q	ug/L	Q	
1,1,1,2-Tetrachloroethane	0.20	U	0.20	U	0.20	U	0.20	U	5
1,1,1-Trichloroethane	0.20	U	0.20	U	0.20	U	0.20	U	5
1,1,2,2-Tetrachloroethane	0.20	U	0.20	U	0.20	U	0.20	U	5
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.20	U	0.20	U	0.20	U	0.20	U	5
1,1,2-Trichloroethane	0.20	U	0.20	U	0.20	U	0.20	U	1
1,1-Dichloroethane	0.20	U	0.20	U	0.20	U	0.20	U	5
1,1-Dichloroethylene	0.20	U	0.20	U	0.20	U	0.20	U	5
1,1-Dichloropropylene	0.20	U	0.20	U	0.20	U	0.20	U	5
1,2,3-Trichlorobenzene	0.20	U	0.20	U	0.20	U	0.20	U	5
1,2,3-Trichloropropane	0.20	U	0.20	U	0.20	U	0.20	U	0.04
1,2,4,5-Tetramethylbenzene	0.20	U	0.20	U	0.20	U	0.20	U	NS
1,2,4-Trichlorobenzene	0.20	U	0.20	U	0.20	U	0.20	U	5
1,2,4-Trimethylbenzene	0.20	U	0.20	U	0.20	U	0.20	U	5
1,2-Dibromo-3-chloropropane	0.20	U	0.20	U	0.20	U	0.20	U	0.04
1,2-Dibromoethane	0.20	U	0.20	U	0.20	U	0.20	U	5
1,2-Dichlorobenzene	0.20	U	0.20	U	0.20	U	0.20	U	3
1,2-Dichloroethane	0.20	U	0.20	U	0.20	U	0.20	U	0.6
1,2-Dichloropropane	0.20	U	0.20	U	0.20	U	0.20	U	1
1,3,5-Trimethylbenzene	0.20	U	0.20	U	0.20	U	0.20	U	5
1,3-Dichlorobenzene	0.20	U	0.20	U	0.20	U	0.20	U	3
1,3-Dichloropropane	0.20	U	0.20	U	0.20	U	0.20	U	5
1,4-Dichlorobenzene	0.20	U	0.20	U	0.20	U	0.20	U	3
2,2-Dichloropropane	0.20	U	0.20	U	0.20	U	0.20	U	5
2-Butanone	0.39	JB	0.20	U	0.20	U	0.20	U	50
2-Chlorotoluene	0.20	U	0.20	U	0.20	U	0.20	U	5
2-Hexanone	0.20	U	0.20	U	0.20	U	0.20	U	50
4-Chlorotoluene	0.20	U	0.20	U	0.20	U	0.20	U	5
4-Methyl-2-pentanone	0.20	U	0.20	U	0.20	U	0.20	U	NS
Acetone	1.20	JB	1.30	J	1.40	JB	1	JB	50
Benzene	0.20	U	0.20	U	0.20	U	0.20	U	1
Bromobenzene	0.20	U	0.20	U	0.20	U	0.20	U	5
Bromochloromethane	0.20	U	0.20	U	0.20	U	0.20	U	5
Bromodichloromethane	0.20	U	0.20	U	0.20	U	0.20	U	50
Bromoform	0.20	U	0.20	U	0.20	U	0.20	U	50
Bromomethane	0.20	U	0.20	U	0.20	U	0.20	U	5
Carbon disulfide	0.20	U	0.20	U	0.20	U	0.20	U	NS
Carbon tetrachloride	0.20	U	0.20	U	0.20	U	0.20	U	5
Chlorobenzene	0.20	U	0.20	U	0.20	U	0.20	U	5
Chloroethane	0.20	U	0.20	U	0.20	U	0.20	U	5
Chloroform	1.90		0.20	U	0.20	U	0.20	U	7
Chloromethane	0.20	U	0.20	U	0.20	U	0.20	U	5
cis-1,2-Dichloroethylene	0.20	U	0.20	U	0.20	U	0.20	U	5
cis-1,3-Dichloropropylene	0.20	U	0.20	U	0.20	U	0.20	U	0.4
Dibromochloromethane	0.20	U	0.20	U	0.20	U	0.20	U	50
Dibromomethane	0.20	U	0.20	U	0.20	U	0.20	U	NS
Dichlorodifluoromethane	0.20	U	0.20	U	0.20	U	0.20	U	5
Ethyl Benzene	0.20	U	0.20	U	0.20	U	0.20	U	5
Hexachlorobutadiene	0.20	U	0.20	U	0.20	U	0.20	U	0.5
Isopropylbenzene	0.20	U	0.20	U	0.20	U	0.20	U	5
Methyl tert-butyl ether (MTBE)	0.20	U	0.20	U	0.20	U	0.20	U	10
Methylene chloride	1	U	1	U	1	U	1.40	J	5
Naphthalene	1	U	1	U	1	U	1	U	10
n-Butylbenzene	0.20	U	0.20	U	0.20	U	0.20	U	5
n-Propylbenzene	0.20	U	0.20	U	0.20	U	0.20	U	5
o-Xylene	0.20	U	0.20	U	0.20	U	0.20	U	5
p- & m- Xylenes	0.50	U	0.50	U	0.50	U	0.50	U	5
p-Diethylbenzene	0.20	U	0.20	U	0.20	U	0.20	U	NS
p-Ethyltoluene	0.20	U	0.20	U	0.20	U	0.20	U	NS
p-Isopropyltoluene	0.20	U	0.20	U	0.20	U	0.20	U	5
sec-Butylbenzene	0.20	U	0.20	U	0.20	U	0.20	U	5
Styrene	0.20	U	0.20	U	0.20	U	0.20	U	5
tert-Butylbenzene	0.20	U	0.20	U	0.20	U	0.20	U	5
Tetrachloroethylene	0.20	U	0.20	U	0.20	U	0.20	U	5
Toluene	0.20	U	0.20	U	0.20	U	0.20	U	5
trans-1,2-Dichloroethylene	0.20	U	0.20	U	0.20	U	0.20	U	5
trans-1,3-Dichloropropylene	0.20	U	0.20	U	0.20	U	0.20	U	0.4
Trichloroethylene	0.20	U	0.20	U	0.20	U	0.20	U	5
Trichlorofluoromethane	0.20	U	0.20	U	0.20	U	0.20	U	5
Vinyl Chloride	0.20	U	0.20	U	0.20	U	0.20	U	2
Total VOC's	3.49		1.30		1.40		2.40		NS

NOTES:

Q is the Qualifier Column with definitions as follows:

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

NS=this indicates that no regulatory limit has been established for this analyte

Table 8
Groundwater Samples Analytical Results for SVOCs
28 Putnam Avenue, Brooklyn, NY

Sample ID	MW-1		Field Blank (Soil)		Field Blank (GW)		Trip Blank		NYSDEC TOGS Standards and Guidance Values - GA
Sampling Date	6/8/2016		6/3/2016		6/8/2016		6/8/2016		
Client Matrix	Water		Water		Water		Water		
Compound	Result		Result		Result		Result		
Units	ug/L	Q	ug/L	Q	ug/L	Q	ug/L	Q	ug/L
1,2,4-Trichlorobenzene	2.63	U	2.56	U	2.63	U	NT		5
1,2-Dichlorobenzene	2.63	U	2.56	U	2.63	U	NT		3
1,3-Dichlorobenzene	2.63	U	2.56	U	2.63	U	NT		3
1,4-Dichlorobenzene	2.63	U	2.56	U	2.63	U	NT		3
2,4,5-Trichlorophenol	2.63	U	2.56	U	2.63	U	NT		1
2,4,6-Trichlorophenol	2.63	U	2.56	U	2.63	U	NT		1
2,4-Dichlorophenol	2.63	U	2.56	U	2.63	U	NT		5
2,4-Dimethylphenol	2.63	U	2.56	U	2.63	U	NT		50
2,4-Dinitrophenol	2.63	U	2.56	U	2.63	U	NT		10
2,4-Dinitrotoluene	2.63	U	2.56	U	2.63	U	NT		5
2,6-Dinitrotoluene	2.63	U	2.56	U	2.63	U	NT		5
2-Chloronaphthalene	2.63	U	2.56	U	2.63	U	NT		10
2-Chlorophenol	2.63	U	2.56	U	2.63	U	NT		1
2-Methylnaphthalene	2.63	U	2.56	U	2.63	U	NT		NS
2-Methylphenol	2.63	U	2.56	U	2.63	U	NT		1
2-Nitroaniline	2.63	U	2.56	U	2.63	U	NT		5
2-Nitrophenol	2.63	U	2.56	U	2.63	U	NT		1
3- & 4-Methylphenols	2.63	U	2.56	U	2.63	U	NT		NS
3,3'-Dichlorobenzidine	2.63	U	2.56	U	2.63	U	NT		5
3-Nitroaniline	2.63	U	2.56	U	2.63	U	NT		5
4,6-Dinitro-2-methylphenol	2.63	U	2.56	U	2.63	U	NT		NS
4-Bromophenyl phenyl ether	2.63	U	2.56	U	2.63	U	NT		NS
4-Chloro-3-methylphenol	2.63	U	2.56	U	2.63	U	NT		1
4-Chloroaniline	2.63	U	2.56	U	2.63	U	NT		5
4-Chlorophenyl phenyl ether	2.63	U	2.56	U	2.63	U	NT		NS
4-Nitroaniline	2.63	U	2.56	U	2.63	U	NT		5
4-Nitrophenol	2.63	U	2.56	U	2.63	U	NT		1
Acenaphthene	0.053	U	0.051	U	0.053	U	NT		20
Acenaphthylene	0.053	U	0.051	U	0.053	U	NT		NS
Aniline	2.63	U	2.56	U	2.63	U	NT		5
Anthracene	0.053	U	0.051	U	0.053	U	NT		50
Benzo(a)anthracene	0.053	U	0.051	U	0.053	U	NT		0.002
Benzo(a)pyrene	0.053	U	0.051	U	0.053	U	NT		0.002
Benzo(b)fluoranthene	0.053	U	0.051	U	0.053	U	NT		0.002
Benzo(g,h,i)perylene	0.053	U	0.051	U	0.053	U	NT		NS
Benzo(k)fluoranthene	0.053	U	0.051	U	0.053	U	NT		0.002
Benzyl alcohol	2.63	U	2.56	U	2.63	U	NT		NS
Benzyl butyl phthalate	2.63	U	2.56	U	2.63	U	NT		50
Bis(2-chloroethoxy)methane	2.63	U	2.56	U	2.63	U	NT		5
Bis(2-chloroethyl)ether	2.63	U	2.56	U	2.63	U	NT		1
Bis(2-chloroisopropyl)ether	2.63	U	2.56	U	2.63	U	NT		5
Bis(2-ethylhexyl)phthalate	0.60		0.51	U	0.53	U	NT		5
Chrysene	0.053	U	0.051	U	0.053	U	NT		0.002
Dibenzo(a,h)anthracene	0.053	U	0.051	U	0.053	U	NT		NS
Dibenzofuran	2.63	U	2.56	U	2.63	U	NT		NS
Diethyl phthalate	2.63	U	2.56	U	2.63	U	NT		50
Dimethyl phthalate	2.63	U	2.56	U	2.63	U	NT		50
Di-n-butyl phthalate	2.63	U	2.56	U	2.63	U	NT		50
Di-n-octyl phthalate	2.63	U	2.56	U	2.63	U	NT		50
Fluoranthene	0.063		0.051	U	0.053	U	NT		50
Fluorene	0.053	U	0.051	U	0.053	U	NT		50
Hexachlorobenzene	0.021	U	0.021	U	0.021	U	NT		0.04
Hexachlorobutadiene	0.53	U	0.51	U	0.53	U	NT		0.5
Hexachlorocyclopentadiene	2.63	U	2.56	U	2.63	U	NT		5
Hexachloroethane	0.53	U	0.51	U	0.53	U	NT		5
Indeno(1,2,3-cd)pyrene	0.053	U	0.051	U	0.053	U	NT		0.002
Isophorone	2.63	U	2.56	U	2.63	U	NT		50
Naphthalene	0.053	J	0.051	U	0.053	U	NT		10
Nitrobenzene	0.26	U	0.26	U	0.26	U	NT		0.4
N-Nitrosodimethylamine	0.53	U	0.51	U	0.53	U	NT		NS
N-nitroso-di-n-propylamine	2.63	U	2.56	U	2.63	U	NT		NS
N-Nitrosodiphenylamine	2.63	U	2.56	U	2.63	U	NT		50
Pentachlorophenol	0.26	U	0.26	U	0.26	U	NT		1
Phenanthrene	0.095		0.051	U	0.053	U	NT		50
Phenol	2.63	U	2.56	U	2.63	U	NT		1
Pyrene	0.053	U	0.051	U	0.16		NT		50
Pyridine	2.63	U	2.56	U	2.63	U	NT		50
Total SVOC's	0.81		ND		0.16		NT		NS

NOTES:

Q is the Qualifier Column with definitions as follows:

U=analyte not detected at or above the level indicated

NS=this indicates that no regulatory limit has been established for this analyte

ND=analyte not detected at or above the level indicated

NT=this indicates the analyte was not a target for this sample

Table 9
Groundwater Samples Analytical Results for Pesticides and PCBs
28 Putnam Avenue, Brooklyn, NY

Sample ID	MW-1		Field Blank (Soil)		Field Blank (GW)		Trip Blank		NYSDEC TOGS Standards and Guidance Values - GA
Sampling Date	6/8/2016		6/3/2016		6/8/2016		6/8/2016		
Client Matrix	Water		Water		Water		Water		
Compound	Result		Result		Result		Result		
Units	ug/L	Q	ug/L	Q	ug/L	Q	ug/L	Q	ug/L
4,4'-DDD	0.0041	U	0.0043	U	0.0057	U	NT		0.3
4,4'-DDE	0.0041	U	0.0043	U	0.0057	U	NT		0.2
4,4'-DDT	0.0041	U	0.0043	U	0.0057	U	NT		0.2
Aldrin	0.0041	U	0.0043	U	0.0057	U	NT		NS
alpha-BHC	0.0041	U	0.0043	U	0.0057	U	NT		0.01
alpha-Chlordane	0.0041	U	0.0043	U	0.0057	U	NT		NS
Aroclor 1016	0.051	U	0.054	U	0.071	U	NT		NS
Aroclor 1221	0.051	U	0.054	U	0.071	U	NT		NS
Aroclor 1232	0.051	U	0.054	U	0.071	U	NT		NS
Aroclor 1242	0.051	U	0.054	U	0.071	U	NT		NS
Aroclor 1248	0.051	U	0.054	U	0.071	U	NT		NS
Aroclor 1254	0.051	U	0.054	U	0.071	U	NT		NS
Aroclor 1260	0.051	U	0.054	U	0.071	U	NT		NS
beta-BHC	0.0041	U	0.0043	U	0.0057	U	NT		0.04
Chlordane, total	0.041	U	0.043	U	0.057	U	NT		0.05
delta-BHC	0.0041	U	0.0043	U	0.0057	U	NT		0.04
Dieldrin	0.0021	U	0.0022	U	0.0029	U	NT		0.004
Endosulfan I	0.0041	U	0.0043	U	0.0057	U	NT		NS
Endosulfan II	0.0041	U	0.0043	U	0.0057	U	NT		NS
Endosulfan sulfate	0.0041	U	0.0043	U	0.0057	U	NT		NS
Endrin	0.0041	U	0.0043	U	0.0057	U	NT		NS
Endrin aldehyde	0.010	U	0.011	U	0.014	U	NT		5
Endrin ketone	0.010	U	0.011	U	0.014	U	NT		5
gamma-BHC (Lindane)	0.0041	U	0.0043	U	0.0057	U	NT		0.05
gamma-Chlordane	0.010	U	0.011	U	0.014	U	NT		NS
Heptachlor	0.0041	U	0.0043	U	0.0057	U	NT		0.04
Heptachlor epoxide	0.0041	U	0.0043	U	0.0057	U	NT		0.03
Methoxychlor	0.0041	U	0.0043	U	0.0057	U	NT		35
Toxaphene	0.10	U	0.11	U	0.14	U	NT		0.06
Total PCBs	0.051	U	0.054	U	0.071	U	NT		0.09

NOTES:

Q is the Qualifier Column with definitions as follows:

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NT=this indicates the analyte was not a target for this sample

Table 10
Groundwater Samples Analytical Results for Metals
28 Putnam Avenue, Brooklyn, NY

Sample ID	MW-1		Field Blank (Soil)		Field Blank (GW)		Trip Blank		NYSDEC TOGS Standards and Guidance Values - GA
Sampling Date	6/8/2016		6/3/2016		6/8/2016		6/8/2016		
Client Matrix	Water		Water		Water		Water		
Compound	Result		Result		Result		Result		
Units	ug/L	Q	ug/L	Q	ug/L	Q	ug/L	Q	ug/L
Aluminum	3,080		56	U	56	U	NT		NS
Antimony	6	U	6	U	6	U	NT		3
Arsenic	4	U	4	U	4	U	NT		25
Barium	168		11	U	11	U	NT		1000
Beryllium	1	U	1	U	1	U	NT		3
Cadmium	3	U	3	U	3	U	NT		5
Calcium	86,500		70		56	U	NT		NS
Chromium	18		6	U	6	U	NT		50
Chromium, Hexavalent	10	U	10	U	10	U	NT		50
Chromium, Trivalent	18		10	U	10	U	NT		NS
Cobalt	7		6	U	6	U	NT		NS
Copper	16		3	U	3	U	NT		200
Iron	4,890		22	U	22	U	NT		NS
Lead	6		3	U	3	U	NT		25
Magnesium	27,900		56	U	56	U	NT		35000
Manganese	1,080		6	U	6	U	NT		300
Mercury	0.20	U	0.20	U	0.20	U	NT		0.7
Nickel	22		6	U	6	U	NT		100
Potassium	5,700		79		56	U	NT		NS
Selenium	11	U	11	U	11	U	NT		10
Silver	6	U	6	U	6	U	NT		50
Sodium	34,600		292		462		NT		20000
Thallium	6	U	6	U	6	U	NT		NS
Vanadium	11	U	11	U	11	U	NT		NS
Zinc	30		15		16		NT		2000
Metals, Target Analyte, Dissolved									
Aluminum	56	U	NT		56	U	NT		NS
Antimony	6	U	NT		6	U	NT		3
Arsenic	4	U	NT		4	U	NT		25
Barium	116		NT		11	U	NT		1000
Beryllium	1	U	NT		1	U	NT		3
Cadmium	3	U	NT		3	U	NT		5
Calcium	85,100		NT		56	U	NT		NS
Chromium	6	U	NT		6	U	NT		50
Cobalt	6	U	NT		6	U	NT		NS
Copper	7		NT		3	U	NT		200
Iron	277		NT		58		NT		NS
Lead	3	U	NT		3	U	NT		25
Magnesium	27,000		NT		56	U	NT		35000
Manganese	718		NT		6	U	NT		300
Mercury	0.20	U	NT		0.20	U	NT		0.7
Nickel	6	U	NT		6	U	NT		100
Potassium	4,840		NT		56	U	NT		NS
Selenium	11	U	NT		11	U	NT		10
Silver	6	U	NT		6	U	NT		50
Sodium	35,000		NT		111	U	NT		20000
Thallium	6	U	NT		6	U	NT		NS
Vanadium	11	U	NT		11	U	NT		NS
Zinc	11	U	NT		11	U	NT		2000

NOTES:

Q is the Qualifier Column with definitions as follows:

U=analyte not detected at or above the level indicated

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NT=this indicates the analyte was not a target for this sample

Table 11A
HydroTech RI
Sub-Slab/Soil Vapor Samples Analytical Results
29 Putnam Avenue, Brooklyn, NY

Sample ID	SSB-1			SSB-1a			SV-1			SV-2			SV-3			SV-4			SV-5			SV-6			SV-7		
Sampling Date	6/8/2016			10/11/2016			6/8/2016			6/8/2016			10/11/2016			10/11/2016			10/11/2016			10/11/2016			10/11/2016		
Client Matrix	Sub-Slab Vapor			Sub-Slab Vapor			Soil Vapor			Soil Vapor			Soil Vapor			Soil Vapor			Soil Vapor			Soil Vapor			Soil Vapor		
Compound	Result			Result			Result			Result			Result			Result			Result			Result					
Units	ug/m3	Q		ug/m3	Q		ug/m3	Q		ug/m3	Q		ug/m3	Q		ug/m3	Q		ug/m3	Q		ug/m3	Q		ug/m3	Q	
1,1,1,2-Tetrachloroethane	13	U		20	U		15	U		14	U		19	U		12	U		19	U		12	U		18	U	
1,1,1-Trichloroethane	10	U		16	U		12	U		11	U		15	U		9.20	U		15	U		9.20	U		14	U	
1,1,2,2-Tetrachloroethane	13	U		20	U		15	U		14	U		19	U		12	U		19	U		12	U		18	U	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	14	U		23	U		16	U		15	U		21	U		13	U		21	U		13	U		20	U	
1,1,2-Trichloroethane	10	U		16	U		12	U		11	U		15	U		9.20	U		15	U		9.20	U		14	U	
1,1-Dichloroethane	7.60	U		12	U		8.70	U		8.10	U		11	U		6.80	U		11	U		6.80	U		10	U	
1,1-Dichloroethylene	7.40	U		12	U		8.50	U		7.90	U		11	U		6.70	U		11	U		6.70	U		10	U	
1,2,4-Trichlorobenzene	14	U		22	U		16	U		15	U		21	U		12	U		21	U		12	U		19	U	
1,2,4-Trimethylbenzene	9.20	U		15	U		11	U		28	D		31	D		8.30	U		54	D		22	D		16	D	
1,2-Dibromomethane	14	U		23	U		16	U		15	U		21	U		13	U		21	U		13	U		20	U	
1,2-Dichlorobenzene	11	U		18	U		13	U		12	U		17	U		10	U		17	U		10	U		15	U	
1,2-Dichloroethane	7.60	U		12	U		8.70	U		8.10	U		11	U		6.80	U		11	U		6.80	U		10	U	
1,2-Dichloropropane	8.70	U		14	U		9.90	U		9.20	U		13	U		7.80	U		13	U		7.80	U		12	U	
1,2-Dichlorotetrafluoroethane	13	U		21	U		15	U		14	U		19	U		12	U		20	U		12	U		18	U	
1,3,5-Trimethylbenzene	9.20	U		15	U		11	U		9.80	D		14	U		8.30	U		16	D		8.30	U		13	U	
1,3-Butadiene	12	U		20	U		14	U		13	U		18	U		11	U		19	U		11	U		17	U	
1,3-Dichlorobenzene	11	U		18	U		13	U		12	U		17	U		10	U		17	U		10	U		15	U	
1,3-Dichloropropane	8.70	U		14	U		9.90	U		9.20	U		13	U		7.80	U		13	U		7.80	U		12	U	
1,4-Dichlorobenzene	11	U		18	U		13	U		12	U		17	U		10	U		17	U		10	U		15	U	
1,4-Dioxane	14	U		21	U		15	U		14	U		20	U		12	U		20	U		12	U		19	U	
2-Butanone	5.50	U		12	D		6.30	U		5.90	U		88	D		15	D		99	D		63	D		150	D	
2-Hexanone	15	U		24	U		18	U		16	U		23	U		14	U		23	U		14	U		21	U	
3-Chloropropene	29	U		47	U		34	U		31	U		43	U		26	U		44	U		26	U		40	U	
4-Methyl-2-pentanone	7.70	U		12	U		8.80	U		8.20	U		11	U		6.90	U		11	U		6.90	U		11	U	
Acetone	60	D		67	D		12	D		10	D		600	D		150	D		770	D		300	D		420	D	
Acrylonitrile	4.10	U		6.50	U		4.70	U		4.30	U		6	U		3.60	U		6.10	U		3.60	U		5.60	U	
Benzene	6	U		9.50	U		6.90	U		6.40	U		8.80	U		5.40	U		8.90	U		5.40	U		8.20	U	
Benzyl chloride	9.70	U		15	U		11	U		10	U		14	U		8.70	U		14	U		8.70	U		13	U	
Bromodichloromethane	13	U		20	U		14	U		13	U		19	U		11	U		19	U		11	U		17	U	
Bromoforn	19	U		31	U		22	U		21	U		29	U		17	U		29	U		17	U		27	U	
Bromomethane	7.30	U		12	U		8.30	U		7.80	U		11	U		6.50	U		11	U		6.50	U		10	U	
Carbon disulfide	5.80	U		9.30	U		6.70	U		6.20	U		8.60	U		5.20	U		8.70	U		5.20	U		19	D	
Carbon tetrachloride	2.90	U		4.70	U		3.40	U		3.10	U		4.40	U		2.60	U		4.40	U		2.60	U		4	U	
Chlorobenzene	8.60	U		14	U		9.90	U		9.20	U		13	U		7.70	U		13	U		7.70	U		12	U	
Chloroethane	4.90	U		7.90	U		5.70	U		5.30	U		7.30	U		4.40	U		7.40	U		4.40	U		6.80	U	
Chloroforn	18	D		15	U		10	U		9.80	U		14	U		8.20	U		14	U		8.20	U		13	U	
Chloromethane	3.90	U		6.10	U		4.40	U		4.10	U		5.70	U		3.50	U		5.80	U		3.50	U		5.30	U	
cis-1,2-Dichloroethylene	7.40	U		12	U		8.50	U		7.90	U		11	U		6.70	U		11	U		6.70	U		10	U	
cis-1,3-Dichloropropylene	8.50	U		14	U		9.70	U		9.10	U		13	U		7.60	U		13	U		7.60	U		12	U	
Cyclohexane	6.50	U		10	U		7.40	U		6.90	U		9.50	U		5.80	U		9.60	U		5.80	U		8.80	U	
Dibromochloromethane	16	U		25	U		18	U		17	U		24	U		14	U		24	U		14	U		22	U	
Dichlorodifluoromethane	490	D		15	U		15,000	D		22,000	D		14	U		8.30	U		14	U		17	D		13	U	
Ethyl acetate	14	U		21	U		15	U		14	U		20	U		12	U		20	U		12	U		19	U	
Ethyl Benzene	9.80	D		13	U		9.30	U		16	D		12	D		7.30	U		19	D		9.50	D		11	U	
Hexachlorobutadiene	20	U		32	U		23	U		21	U		30	U		18	U		30	U		18	U		27	U	
Isopropanol	9.20	U		15	U		11	U		9.80	U		14	U		8.30	U		14	U		73	D		13	U	
Methyl Methacrylate	7.70	U		12	U		8.80	U		8.20	U		11	U		6.90	U		11	U		6.90	U		11	U	
Methyl tert-butyl ether (MTBE)	6.80	U		11	U		7.70	U		7.20	U		10	U		6.10	U		10	U		6.10	U		9.30	U	
Methylene chloride	13	U		21	U		16	D		16	D		19	U		12	U		19	U		12	U		18	U	
n-Heptane	7.70	U		12	U		8.80	U		8.20	U		11	U		6.90	U		15	D		6.90	D		11	U	
n-Hexane	6.60	U		39	D		7.60	U		7	U		9.80	U		5.90	U		9.80	U		5.90	U		9.10	U	
o-Xylene	23	D		13	U		10	D		24	D		25	D		7.30	U		41	D		20	D		17	D	
p- & m- Xylenes	39	D		26	U		26	D		63	D		47	D		15	U		78	D		38	D		32	D	
p-Ethyltoluene	9.20	U		15	U		11	U		27	D		23	D		8.30	U		38	D		17	D		13	D	
Propylene	3.20	U		15	D		3.70	U		3.40	U		4.80	U		27	D		4.80	U		9	D		10	D	
Styrene	8	U		13	U		9.10	U		8.50	U		12	U		7.20	U		12	U		7.20	U		11	U	
Tetrachloroethylene	15,000	D		3,000	D		210	D		90	D		43	D		2.80	U		17	D		2.80	U		4.40	U	
Tetrahydrofuran	11	U		18	U		13	U		12	U		16	U		9.90	U		16	U		11	D		15	U	
Toluene	7.10	U		11	U		8.10	U		21	D		16	D		6.30	D		31	D		17	D		18	D	
trans-1,2-Dichloroethylene	7.40	U		12	U		8.50	U		7.90	U		11	U		6.70	U		11	U		6.70	U		10	U	
trans-1,3-Dichloropropylene	8.50	U		14	U		9.70	U		9.10	U		13	U		7.60	U										

Table 7
28 Putnam Avenue
Brooklyn, New York
BEC Remedial Investigation
Soil Gas Analytical Results
Volatile Organic Compounds

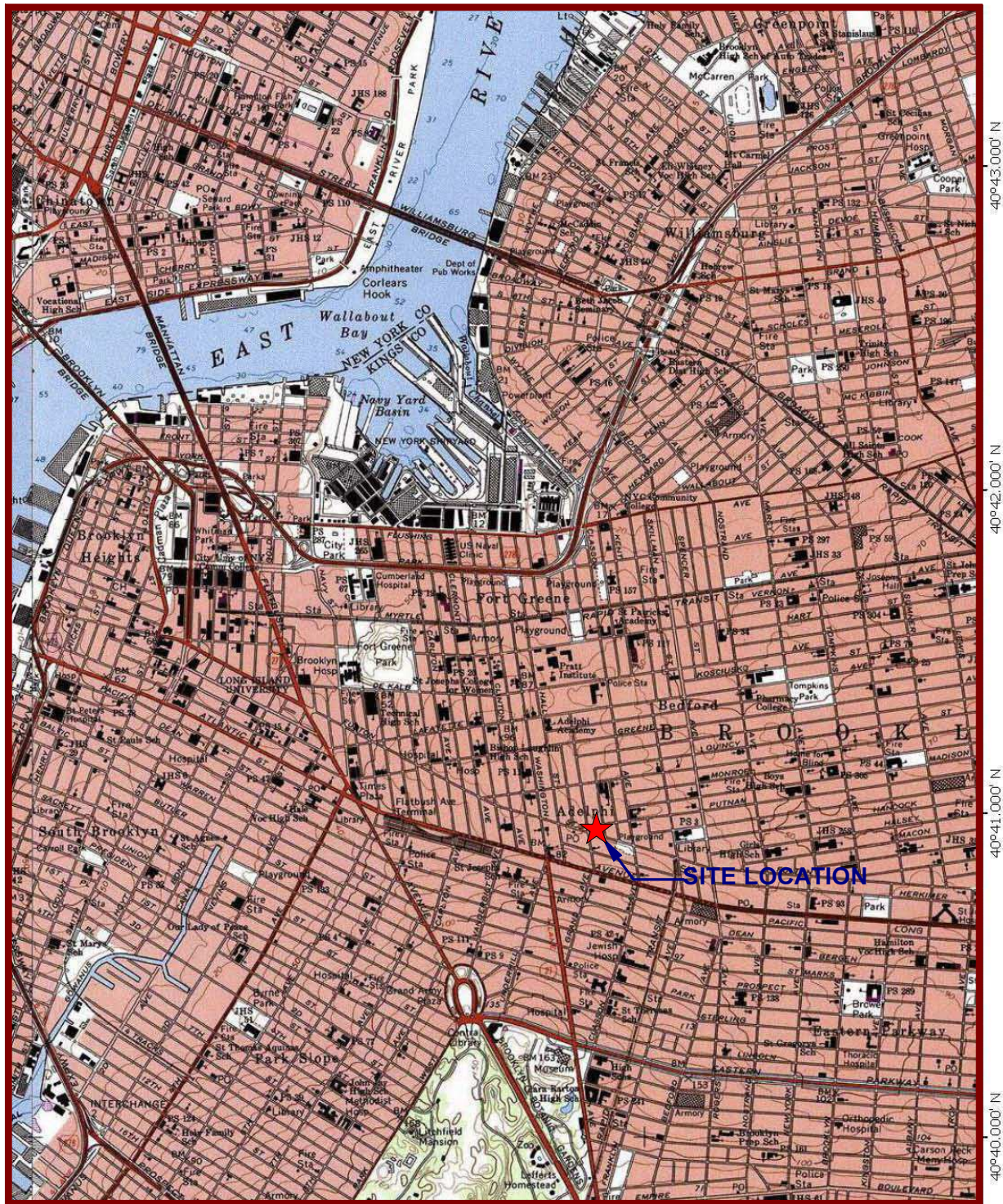
COMPOUNDS	NYSDOH Maximum Sub-Slab Value (µg/m³) (a)	NYSDOH Soil Outdoor Background Levels (µg/m³) (b)	SV1		SV2		SV3		SV4	
			4' bsg		4' bsg		4' bsg		12' bsg	
			10/10/2023		10/10/2023		10/10/2023		10/10/2023	
			µg/m³		µg/m³		µg/m³		µg/m³	
			Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
1,1,1-Trichloroethane	100	<2.0 - 2.8	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
1,1,2,2-Tetrachloroethane		<1.5	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
1,1,2-Trichloroethane		<1.0	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
1,1-Dichloroethane		<1.0	< 5.02	5.02	< 5.02	5.02	< 5.02	5.02	< 5.02	5.02
1,1-Dichloroethene		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2,4-Trichlorobenzene		NA	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
1,2,4-Trimethylbenzene		<1.0	16.9	5.01	16.9	5.01	11.5	5.01	13.1	5.01
1,2-Dibromoethane		<1.5	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
1,2-Dichlorobenzene		<2.0	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
1,2-Dichloroethane		<1.0	< 5.02	5.02	< 5.02	5.02	< 5.02	5.02	< 5.02	5.02
1,2-Dichloropropane			< 4.99	4.99	< 4.99	4.99	< 4.99	4.99	< 4.99	4.99
1,2-Dichlorotetrafluoroethane			< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
1,3,5-Trimethylbenzene		<1.0	5.4	5.01	5.21	5.01	< 5.01	5.01	< 5.01	5.01
1,3-Butadiene		NA	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
1,3-Dichlorobenzene		<2.0	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
1,4-Dichlorobenzene		NA	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
1,4-Dioxane			< 5.01	5.01	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01
2-Hexanone			< 4.99	4.99	< 4.99	4.99	< 4.99	4.99	< 4.99	4.99
4-Ethyltoluene		NA	16.5	5.01	15.8	5.01	10.2	5.01	16.2	5.01
4-Isopropyltoluene			< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
4-Methyl-2-pentanone			< 4.99	4.99	< 4.99	4.99	< 4.99	4.99	< 4.99	4.99
Acetone		NA	57.9	5.01	24.9	5.01	19	5.01	38.7	5.01
Acrylonitrile			< 5.01	5.01	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01
Benzene		<1.6 - 4.7	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01
Benzyl Chloride		NA	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
Bromodichloromethane		<5.0	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
Bromoform		<1.0	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
Bromomethane		<1.0	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01
Carbon Disulfide		NA	7.06	5.01	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01
Carbon Tetrachloride	5	<3.1	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Chlorobenzene		<2.0	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01
Chloroethane		NA	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01
Chloroform		<2.4	< 4.98	4.98	< 4.98	4.98	< 4.98	4.98	25.8	4.98
Chloromethane		<1.0 - 1.4	< 4.99	4.99	< 4.99	4.99	< 4.99	4.99	< 4.99	4.99
cis-1,2-Dichloroethene		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
cis-1,3-Dichloropropene		NA	< 4.99	4.99	< 4.99	4.99	< 4.99	4.99	< 4.99	4.99
Cyclohexane		NA	< 4.99	4.99	< 4.99	4.99	< 4.99	4.99	< 4.99	4.99
Dibromochloromethane		<5.0	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
Dichlorodifluoromethane		NA	< 4.99	4.99	< 4.99	4.99	< 4.99	4.99	< 4.99	4.99
Ethanol			16.4	5.01	8.21	5.01	7.25	5.01	11.9	5.01
Ethyl Acetate		NA	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01
Ethylbenzene		<4.3	9.03	4.99	7.42	4.99	5.21	4.99	14.4	4.99
Heptane		NA	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
Hexachlorobutadiene		NA	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
Hexane		<1.5	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
Isopropylalcohol		NA	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01
Isopropylbenzene			< 5.01	5.01	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01
Xylene (m&p)		<4.3	37.4	4.99	31.6	4.99	21.2	4.99	60.3	4.99
Methyl Ethyl Ketone			7.43	5.01	< 5.01	5.01	< 5.01	5.01	5.84	5.01
MTBE		NA	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01
Methylene Chloride		<3.4	< 15.0	15.0	< 15.0	15.0	< 15.0	15.0	< 15.0	15.0
n-Butylbenzene			< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
Xylene (o)		<4.3	16.6	4.99	13.9	4.99	9.55	4.99	22	4.99
Propylene		NA	6.19	5.01	< 5.01	5.01	< 5.01	5.01	11.7	5.01
sec-Butylbenzene			< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
Styrene		<1.0	< 4.98	4.98	< 4.98	4.98	< 4.98	4.98	< 4.98	4.98
Tetrachloroethene	30		142	1.25	109	1.25	86.8	1.25	150	1.25
Tetrahydrofuran		NA	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01	< 5.01	5.01
Toluene		1.0 - 6.1	23.4	5.01	20.1	5.01	14.2	5.01	41.1	5.01
trans-1,2-Dichloroethene		NA	< 4.99	4.99	< 4.99	4.99	< 4.99	4.99	< 4.99	4.99
trans-1,3-Dichloropropene		NA	< 4.99	4.99	< 4.99	4.99	< 4.99	4.99	< 4.99	4.99
Trichloroethene	5	<1.7	< 0.99	0.99	< 0.99	0.99	< 0.99	0.99	< 0.99	0.99
Trichlorofluoromethane		NA	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
Trichlorotrifluoroethane			< 5.00	5.00	< 5.00	5.00	< 5.00	5.00	< 5.00	5.00
Vinyl Chloride		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
BTEX			86.43		73.02		50.16		137.80	
Total VOCs			362.21		253.04		184.91		411.04	
Total CVOCs			142.00		109.00		86.80		150.00	

Notes:

NA No guidance value or standard available
 bsg - below cellar grade
 * = compounds re-analyzed at a dilution factor of 5
 ** = compounds re-analyzed at a dilution factor of 40
 - Not Analyzed

(a) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, New York State Department
 (b) NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005, Summary of Background

FIGURES



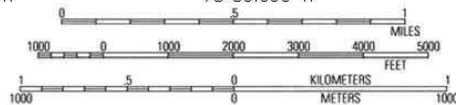
74°00.000' W

73°59.000' W

73°58.000' W

WGS84 73°57.000' W

USGS Brooklyn, NY Quadrangle 1994, Contour Interval = 10 feet



MIN
13°
06/12/11

BRUSSEE
Environmental Corp.

PHONE: 631.338.1749

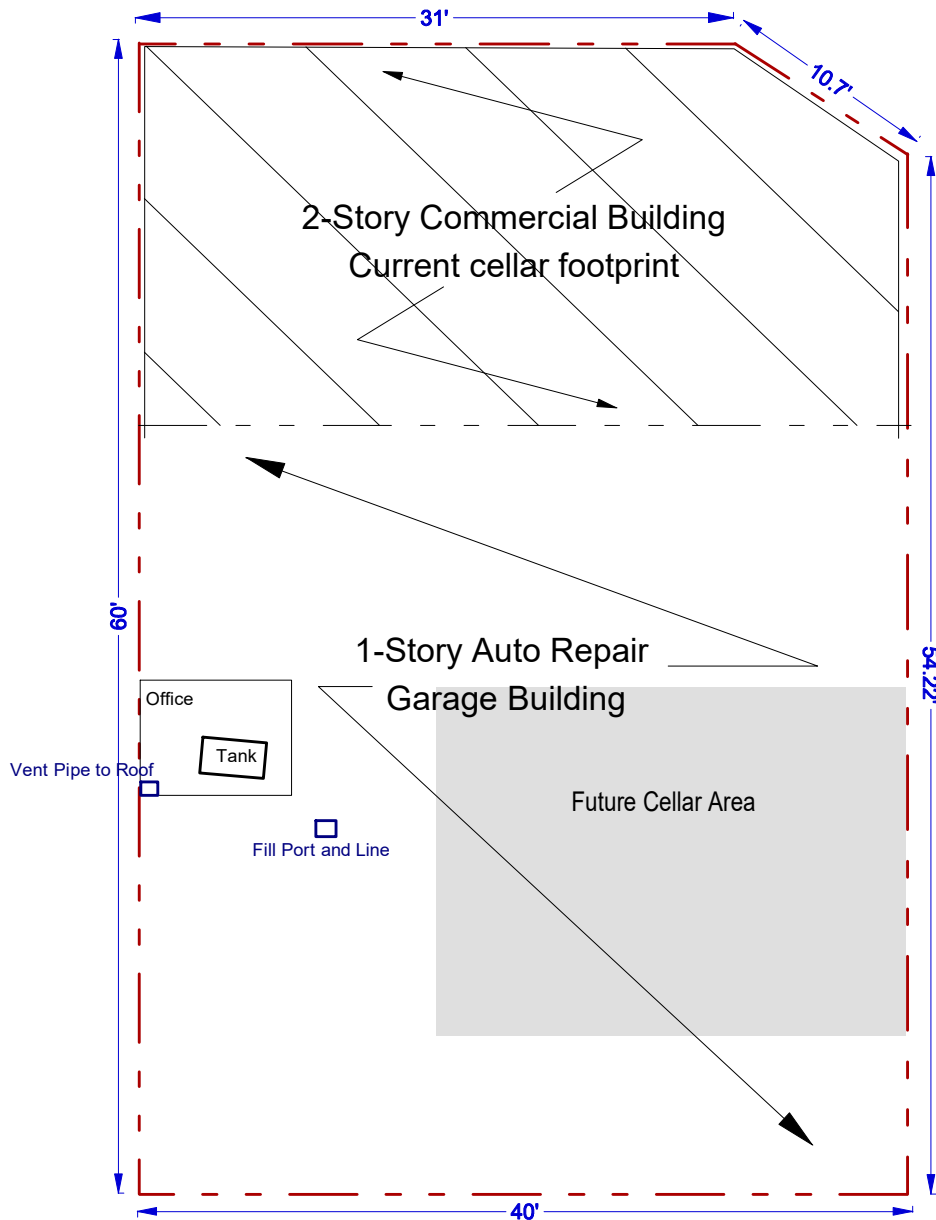
28 PUTNAME AVENUE, BROOKLYN, NY

FIGURE 1

SITE LOCATION MAP



DOWNING STREET
SIDEWALK



SIDEWALK
PUTNAM AVENUE

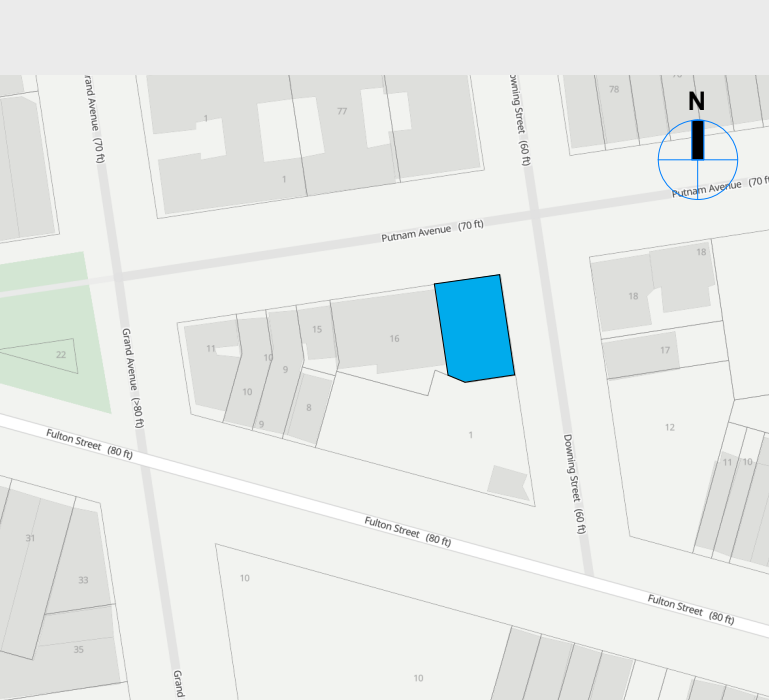
KEY:

- Property Boundary
- Future Cellar Area

SCALE: (feet)



Scale: 1 Inch = 10 feet



LOCATION:
**28 PUTNAM AVENUE
BROOKLYN, NY 11238**

PROJECT:
**PROPOSED 6 STORY RESIDENTIAL
NEW BUILDING**

DRAWING TITLE:
1ST FLOOR PLAN

DOB # :
GC # 000000000-11
DOB BSCAN + STAMP :

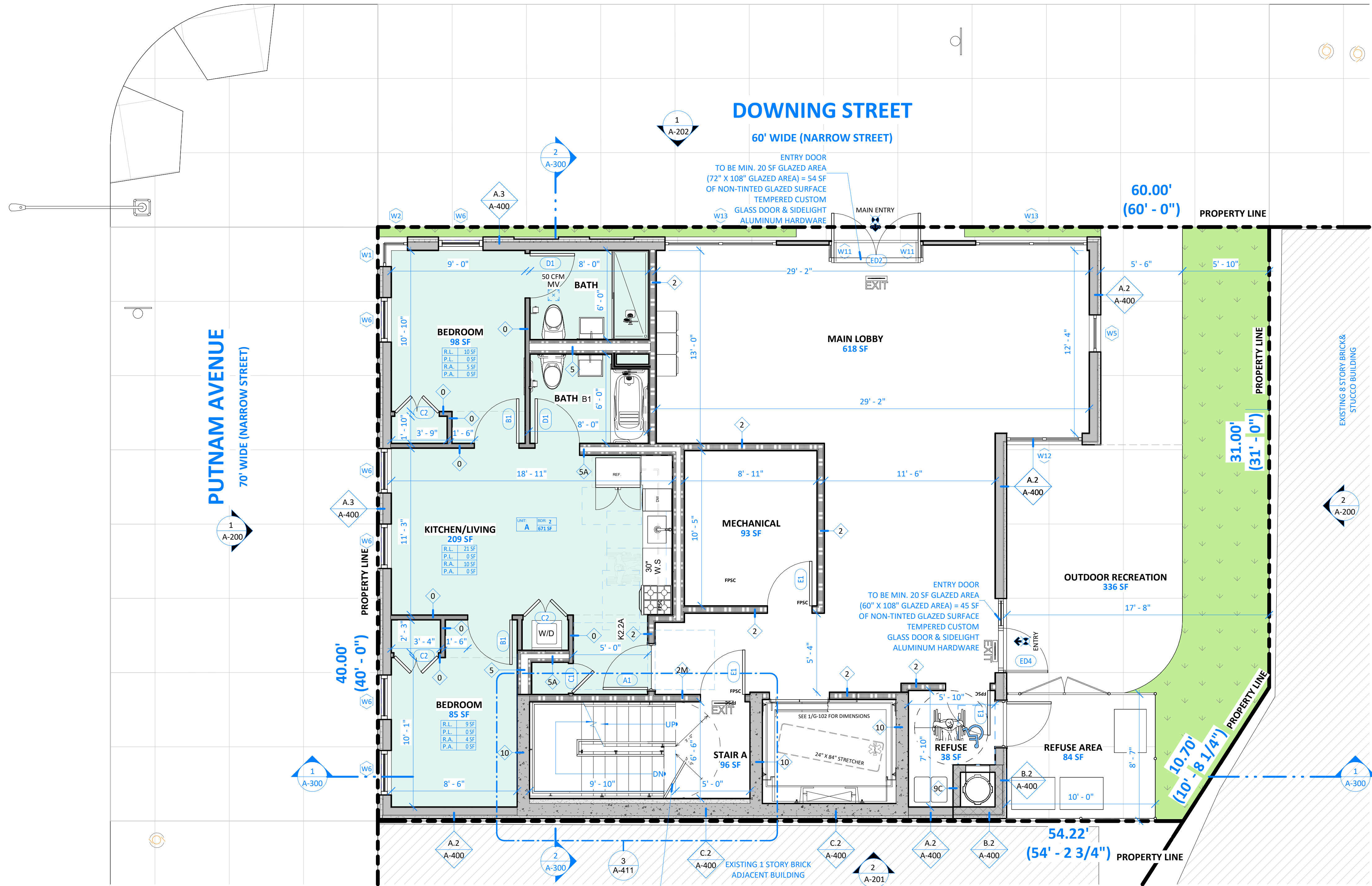
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1 1ST FLOOR PLAN
SCALE: 1/4" = 1'-0"

FLOOR LEGEND

MATERIAL + SYMBOLS

	CONCRETE		NON-FIRE RATED PARTITION
	CMU		FIRE RATED PARTITION
	STEEL / METAL		MECH. VENT
	RIGID INSULATION		SPRINKLER HEAD
	GYPSUM BOARD		EXIT SIGN SYMBOL
	BRICK		HANDICAPPED SYMBOL
	EXISTING BUILDING		FLOOR DRAIN

BICYCLE STORAGE 150 SF R.L. XX P.L. XX R.A. XX P.A. XX	ROOM TAG LIGHT AND AIR TAG R.L. = REQUIRED LIGHT P.L. = PROVIDED LIGHT R.A. = REQUIRED AIR VENTILATION P.A. = PROVIDED AIR VENTILATION
UNIT TAG UNIT 3 NET SF TUNIT TYPE SECTION 504 HPD UNIT TYPE	UNIT TAG
	EMERGENCY WALL LIGHT
	FLOOR ELEVATION SYMBOL
	SPOT ELEVATION SYMBOL

	WINDOW SCHEDULE TAG SEE WINDOW SCHEDULE FOR DETAILED INFORMATION
	DOOR TYPE, SEE DOOR SCHEDULE SHEET
	PARTITION TYPE TAG
	STOREFRONT TYPE TAG
	COLUMN LINE / GRID INDICATOR
	SMOKE AND CARBON MONOXIDE DETECTOR
	ELECTRIC VEHICLE CHARGING STATION

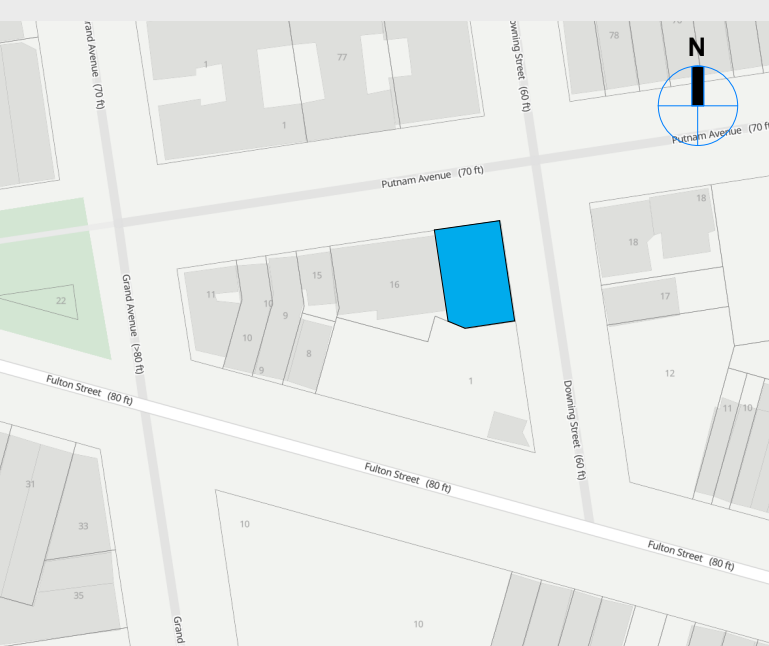
FLOOR LEGEND

UNIT COLOR SCHEME

	UNIT A
	UNIT B

BC 1009.4 ELEVATORS.
TO BE CONSIDERED PART OF AN ACCESSIBLE MEANS OF EGRESS, AN ELEVATOR SHALL COMPLY WITH THE EMERGENCY OPERATION AND SIGNALING DEVICE REQUIREMENTS OF SECTION 2.27 OF ASME A17.1 AND SECTION 1109.7.
STANDBY POWER SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 27 AND SECTION 3003.

ZR 28-22(b)
RECREATION SPACE
MINIMUM REQUIRED RECREATION SPACE. (3.3% X - 8,190 SF) = 270 SF
MINIMUM SIZE OF ANY OUTDOOR RECREATION SPACE SHALL BE 225 SF
PROPOSED OUTDOOR RECREATION SPACE
(LOCATED AT 3RD FLOOR)= 422 SF
(LOCATED AT ROOF FLOOR)= 733 SF
TOTAL RECREATION AREA = 1155 SF



LOCATION:
28 PUTNAM AVENUE
BROOKLYN, NY 11238

PROJECT:
PROPOSED 6 STORY RESIDENTIAL
NEW BUILDING

DRAWING TITLE:
2ND FLOOR PLAN

DOB # :
GC # 000000000-11

DOB BSCAN + STAMP :

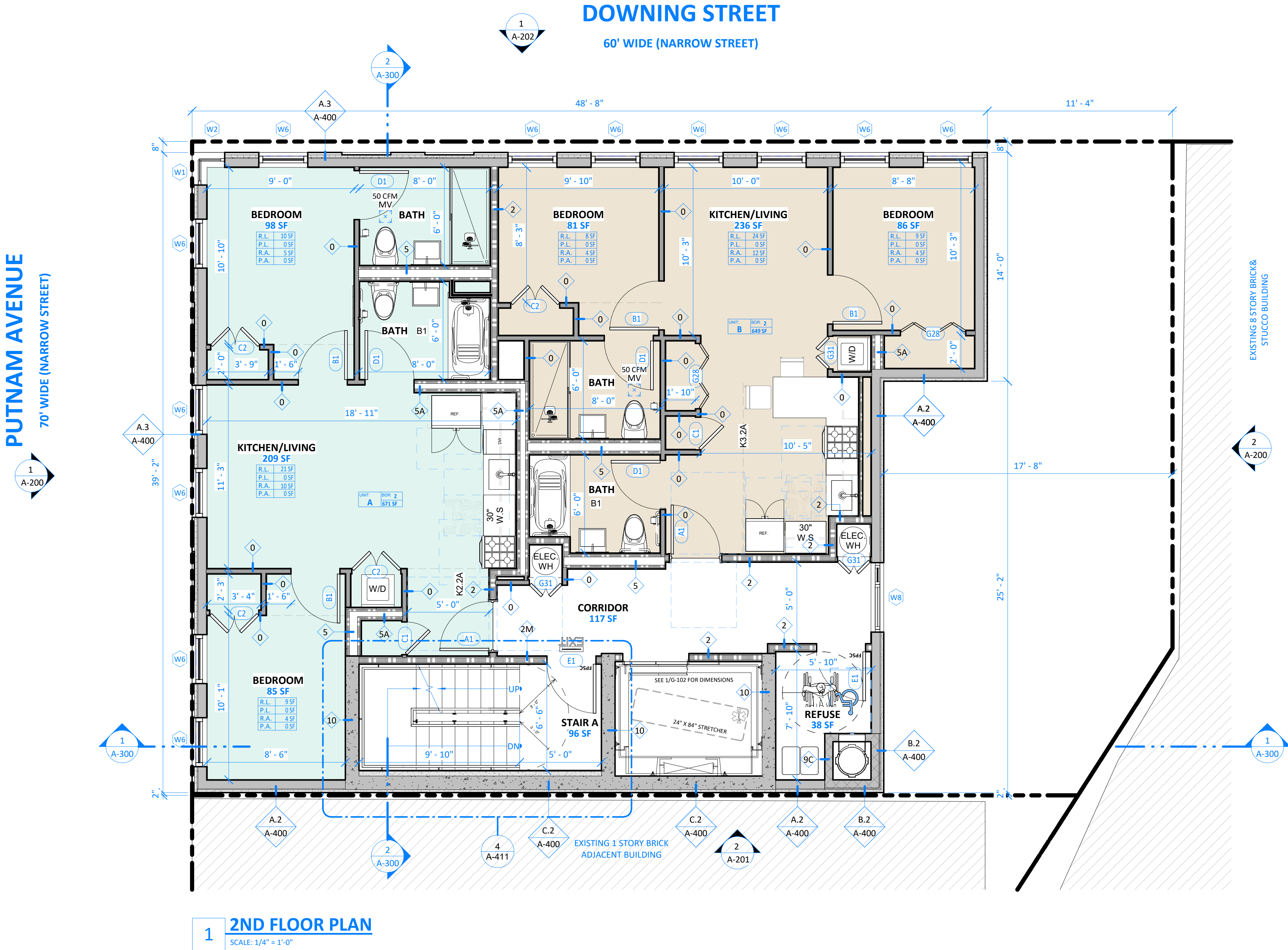
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A-103.00

SHEET: 25 OF 75
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1 2ND FLOOR PLAN
SCALE: 1/4" = 1'-0"

FLOOR LEGEND

MATERIAL + SYMBOLS

	CONCRETE		NON-FIRE RATED PARTITION
	CMU		FIRE RATED PARTITION
	STEEL / METAL		MECH. VENT
	RIGID INSULATION		SPRINKLER HEAD
	GYPSUM BOARD		EXIT SIGN SYMBOL
	BRICK		HANDICAPPED SYMBOL
	EXISTING BUILDING		FLOOR DRAIN

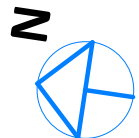
BICYCLE STORAGE 150 SF R.L. XX P.L. XX R.A. XX P.A. XX	ROOM TAG LIGHT AND AIR TAG R.L. = REQUIRED LIGHT P.L. = PROVIDED LIGHT R.A. = REQUIRED AIR VENTILATION P.A. = PROVIDED AIR VENTILATION
UNIT TAG UNIT: 3 NET SF TUNIT TYPE SECTION 504 HPD UNIT TYPE	UNIT TAG
	EMERGENCY WALL LIGHT
	FLOOR ELEVATION SYMBOL
	SPOT ELEVATION SYMBOL

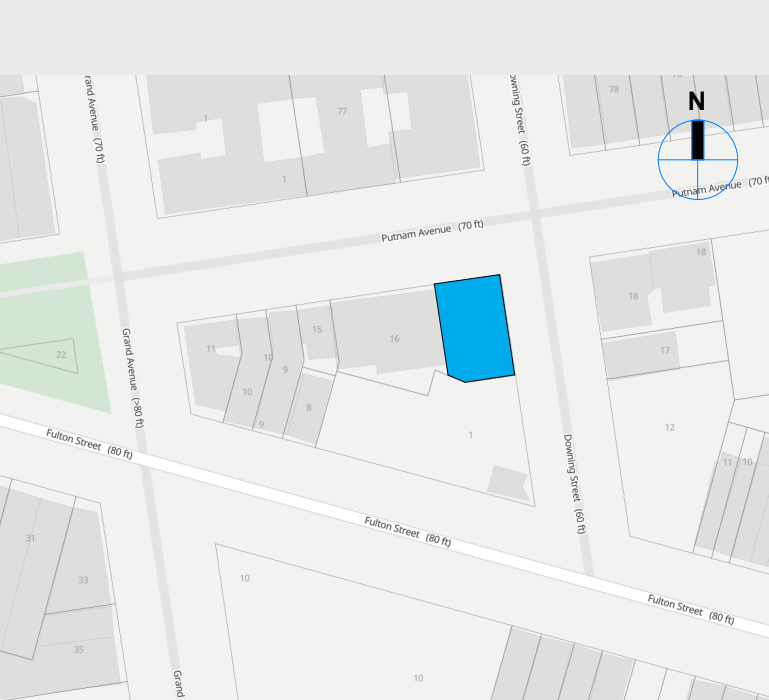
	WINDOW SCHEDULE TAG SEE WINDOW SCHEDULE FOR DETAILED INFORMATION
	DOOR TYPE, SEE DOOR SCHEDULE SHEET
	PARTITION TYPE TAG
	STOREFRONT TYPE TAG
	COLUMN LINE / GRID INDICATOR
	SMOKE AND CARBON MONOXIDE DETECTOR
	ELECTRIC VEHICLE CHARGING STATION

FLOOR LEGEND

UNIT COLOR SCHEME

	UNIT A
	UNIT B





LOCATION:
28 PUTNAM AVENUE
BROOKLYN, NY 11238

PROJECT:
**PROPOSED 6 STORY RESIDENTIAL
NEW BUILDING**

DRAWING TITLE:
3RD-5TH TYPICAL FLOOR PLAN

DOB # :
GC # 000000000-11

DOB BSCAN + STAMP :

DATE: 9/20/2023 3:14:24 PM

SCALE: As indicated
DRAWN BY: XX

A-104.00

SHEET: 26 OF 75

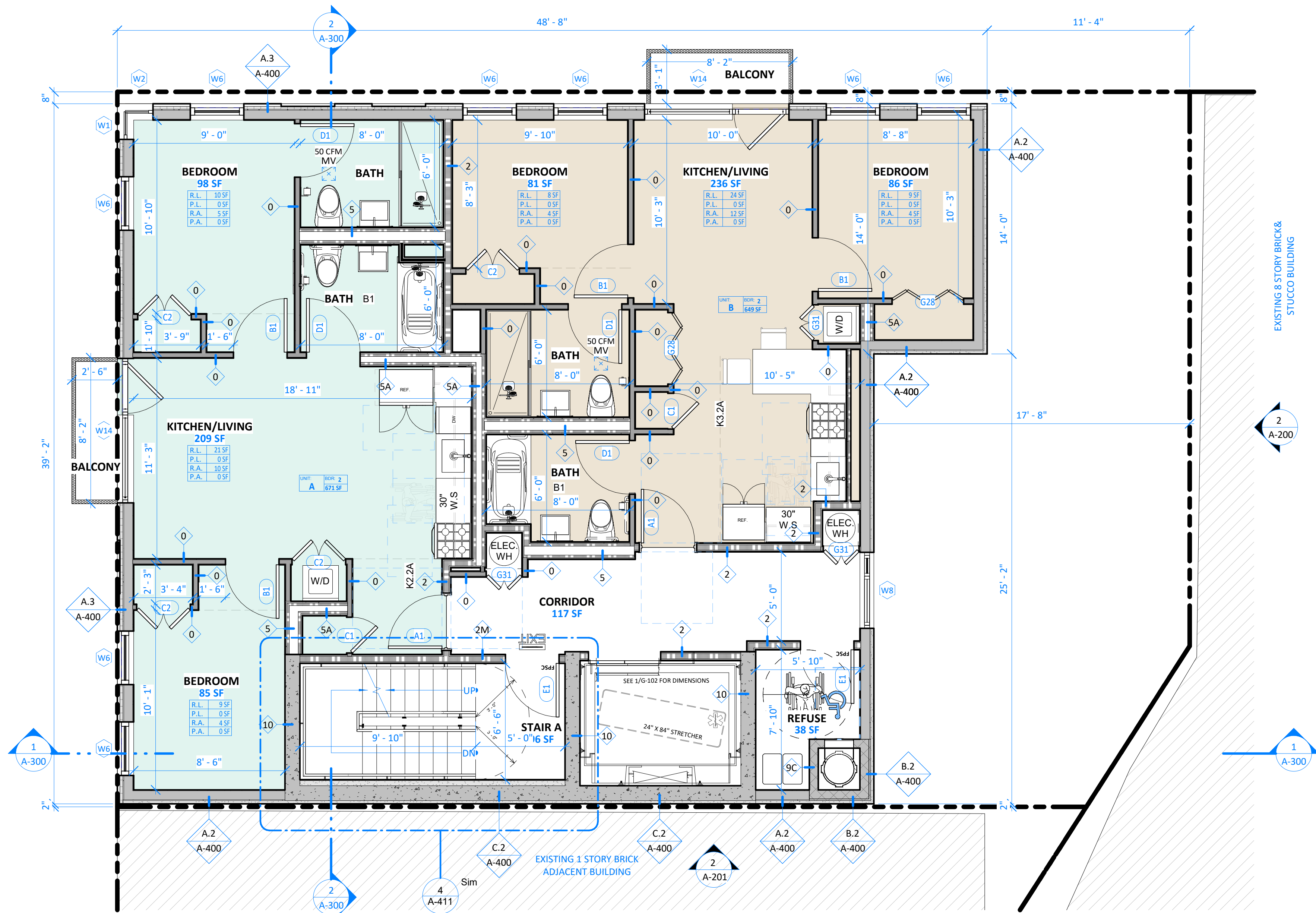
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DOWNING STREET

60' WIDE (NARROW STREET)

PUTNAM AVENUE
70' WIDE (NARROW STREET)



1 3RD-5TH TYPICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

FLOOR LEGEND

MATERIAL + SYMBOLS

	CONCRETE		NON-FIRE RATED PARTITION
	CMU		FIRE RATED PARTITION
	STEEL / METAL		MECH. VENT
	RIGID INSULATION		SPRINKLER HEAD
	GYPSUM BOARD		EXIT SIGN SYMBOL
	BRICK		HANDICAPPED SYMBOL
	EXISTING BUILDING		FLOOR DRAIN

BICYCLE STORAGE 150 SF R.L. XX P.L. XX R.A. XX P.A. XX	ROOM TAG LIGHT AND AIR TAG R.L. = REQUIRED LIGHT P.L. = PROVIDED LIGHT R.A. = REQUIRED AIR VENTILATION P.A. = PROVIDED AIR VENTILATION
UNIT TAG UNIT 3 NET SF TYPED TYPE SECTION 604 HPD UNIT TYPE	UNIT TAG
	EMERGENCY WALL LIGHT
	FLOOR ELEVATION SYMBOL
	SPOT ELEVATION SYMBOL

	WINDOW SCHEDULE TAG SEE WINDOW SCHEDULE FOR DETAILED INFORMATION
	DOOR TYPE, SEE DOOR SCHEDULE SHEET
	PARTITION TYPE TAG
	STOREFRONT TYPE TAG
	COLUMN LINE / GRID INDICATOR
	SMOKE AND CARBON MONOXIDE DETECTOR
	ELECTRIC VEHICLE CHARGING STATION

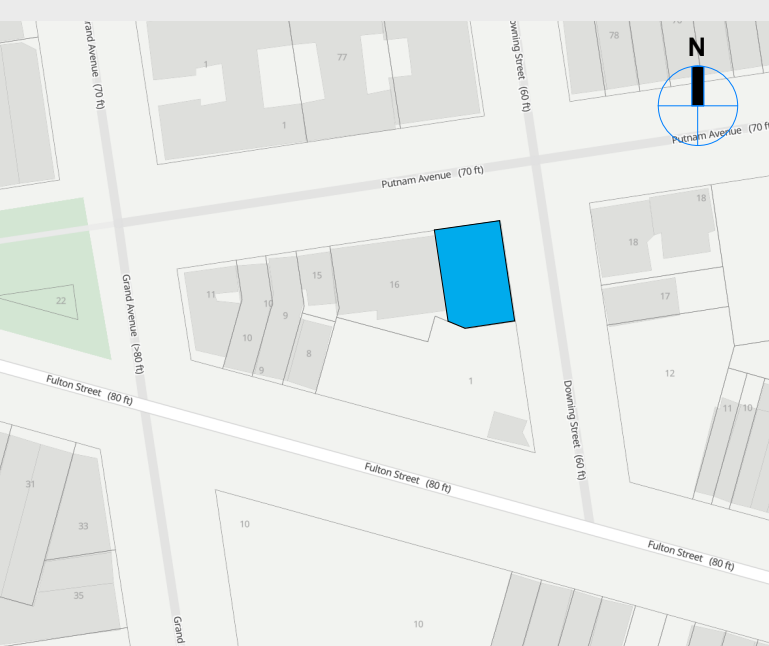
FLOOR LEGEND

UNIT COLOR SCHEME

	UNIT A
	UNIT B

ZR 23-132: DOWNING STREET
A) BALCONIES NOT PROJECT BY A DISTANCE GREATER THAN 7'-0"
PROPOSED: BALCONY PROJECTION 6'-0" COMPLIES
B) NOT PROJECT INTO THE MINIMUM REQUIRED DISTANCE BETWEEN BUILDINGS ON THE SAME ZONING LOT.
PROPOSED: 1. BUILDING ON THIS ZONING LOT.
C) NOT COVER MORE THAN TEN PERCENT OF THE AREA DESIGNATED AS OUTDOOR RECREATION SPACE PURSUANT TO ZR 28-22
PROPOSED: COMPLIES
D) BE UNENCLOSED EXCEPT FOR A RAILING NOT LESS THAN 50 PERCENT OPEN AND NOT EXCEEDING 4 FEET, 6 INCHES IN HEIGHT.
PROPOSED: RAILINGS ARE 3'-6" HIGH & 50% OPEN
E) BE LOCATED AT OR HIGHER THAN THE FLOOR LEVEL OF THE THIRD STORY OF A BUILDING.
PROPOSED: 3RD - 5TH FLOORS ONLY
F) HAVE AN AGGREGATE WIDTH, AT THE LEVEL OF ANY STORY, NOT EXCEEDING 50 PERCENT OF THE WIDTH AT THAT LEVEL OF THE PLANE SURFACE OF THE BUILDING WALL FROM WHICH IT PROJECTS.
PROPOSED: BUILDING WIDTH = 48'-8" X 50% = 24'-4"
MAX ALLOWED BALCONY WIDTH = 24'-4"
PROPOSED: BALCONY WIDTH = 8'-2" ≤ 24'-4" OK COMPLIES

ZR 23-132: PUTNAM AVENUE
A) BALCONIES NOT PROJECT BY A DISTANCE GREATER THAN 7'-0"
PROPOSED: BALCONY PROJECTION 6'-0" COMPLIES
B) NOT PROJECT INTO THE MINIMUM REQUIRED DISTANCE BETWEEN BUILDINGS ON THE SAME ZONING LOT.
PROPOSED: 1. BUILDING ON THIS ZONING LOT.
C) NOT COVER MORE THAN TEN PERCENT OF THE AREA DESIGNATED AS OUTDOOR RECREATION SPACE PURSUANT TO ZR 28-22
PROPOSED: COMPLIES
D) BE UNENCLOSED EXCEPT FOR A RAILING NOT LESS THAN 50 PERCENT OPEN AND NOT EXCEEDING 4 FEET, 6 INCHES IN HEIGHT.
PROPOSED: RAILINGS ARE 3'-6" HIGH & 50% OPEN
E) BE LOCATED AT OR HIGHER THAN THE FLOOR LEVEL OF THE THIRD STORY OF A BUILDING.
PROPOSED: 3RD - 5TH FLOORS ONLY
F) HAVE AN AGGREGATE WIDTH, AT THE LEVEL OF ANY STORY, NOT EXCEEDING 50 PERCENT OF THE WIDTH AT THAT LEVEL OF THE PLANE SURFACE OF THE BUILDING WALL FROM WHICH IT PROJECTS.
PROPOSED: BUILDING WIDTH = 39'-2" X 50% = 19'-7"
MAX ALLOWED BALCONY WIDTH = 19'-7"
PROPOSED: BALCONY WIDTH = 8'-2" ≤ 19'-7" OK COMPLIES



LOCATION:
28 PUTNAM AVENUE
BROOKLYN, NY 11238

PROJECT:
PROPOSED 6 STORY RESIDENTIAL
NEW BUILDING

DRAWING TITLE:
6TH FLOOR PLAN

DOB # :
GC # 000000000-11
DOB BSCAN + STAMP :

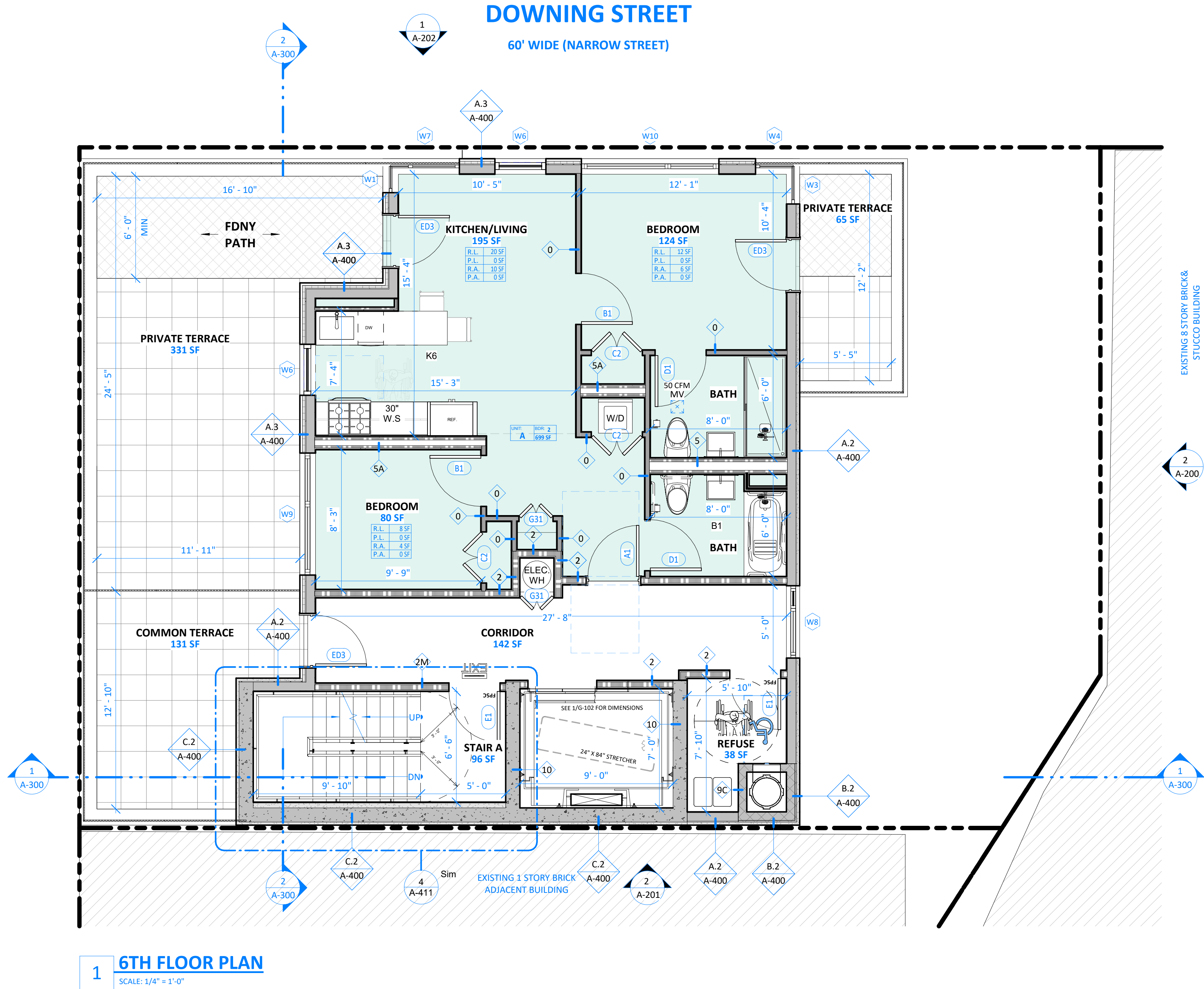
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SCALE: As indicated
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A-105.00
SHEET: 27 OF 75

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1 6TH FLOOR PLAN
SCALE: 1/4" = 1'-0"

FLOOR LEGEND

MATERIAL + SYMBOLS

	CONCRETE		NON-FIRE RATED PARTITION
	CMU		FIRE RATED PARTITION
	STEEL / METAL		MECH. VENT
	RIGID INSULATION		SPRINKLER HEAD
	GYPSUM BOARD		EXIT SIGN SYMBOL
	BRICK		HANDICAPPED SYMBOL
	EXISTING BUILDING		FLOOR DRAIN

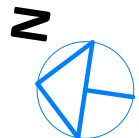
BICYCLE STORAGE 150 SF R.L. XX P.L. XX R.A. XX P.A. XX	ROOM TAG LIGHT AND AIR TAG R.L. = REQUIRED LIGHT P.L. = PROVIDED LIGHT R.A. = REQUIRED AIR VENTILATION P.A. = PROVIDED AIR VENTILATION
UNIT TAG UNIT 3 NET SF TUNIT TYPE SECTION 504 HPD UNIT TYPE	UNIT TAG
	EMERGENCY WALL LIGHT
	FLOOR ELEVATION SYMBOL
	SPOT ELEVATION SYMBOL

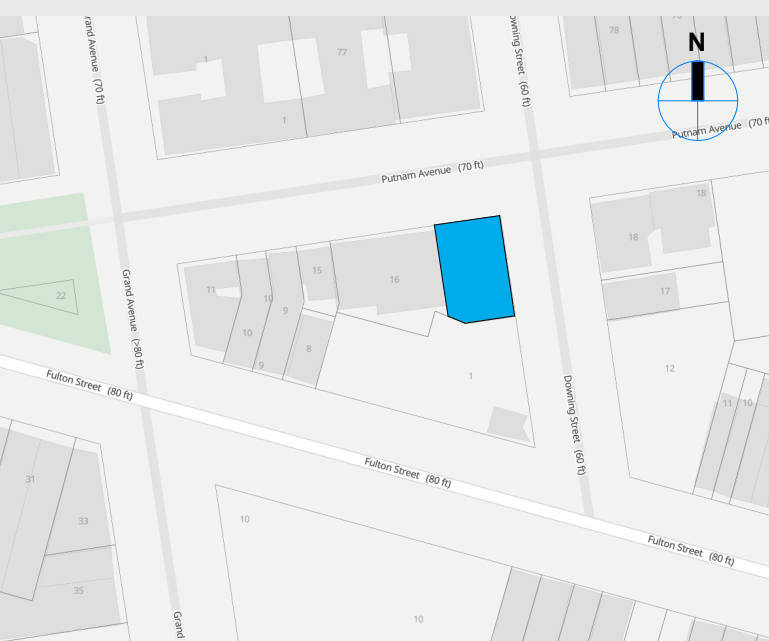
	WINDOW SCHEDULE TAG SEE WINDOW SCHEDULE FOR DETAILED INFORMATION
	DOOR TYPE, SEE DOOR SCHEDULE SHEET
	PARTITION TYPE TAG
	STOREFRONT TYPE TAG
	COLUMN LINE / GRID INDICATOR
	SMOKE AND CARBON MONOXIDE DETECTOR
	ELECTRIC VEHICLE CHARGING STATION

FLOOR LEGEND

UNIT COLOR SCHEME

	UNIT A
	UNIT B





LOCATION:
**28 PUTNAM AVENUE
BROOKLYN, NY 11238**

PROJECT:
**PROPOSED 6 STORY RESIDENTIAL
NEW BUILDING**

DRAWING TITLE:
ROOF PLAN

DOB # :
GC # 000000000-11

DOB BSCAN + STAMP :

DATE: 9/20/2023 3:14:33 PM

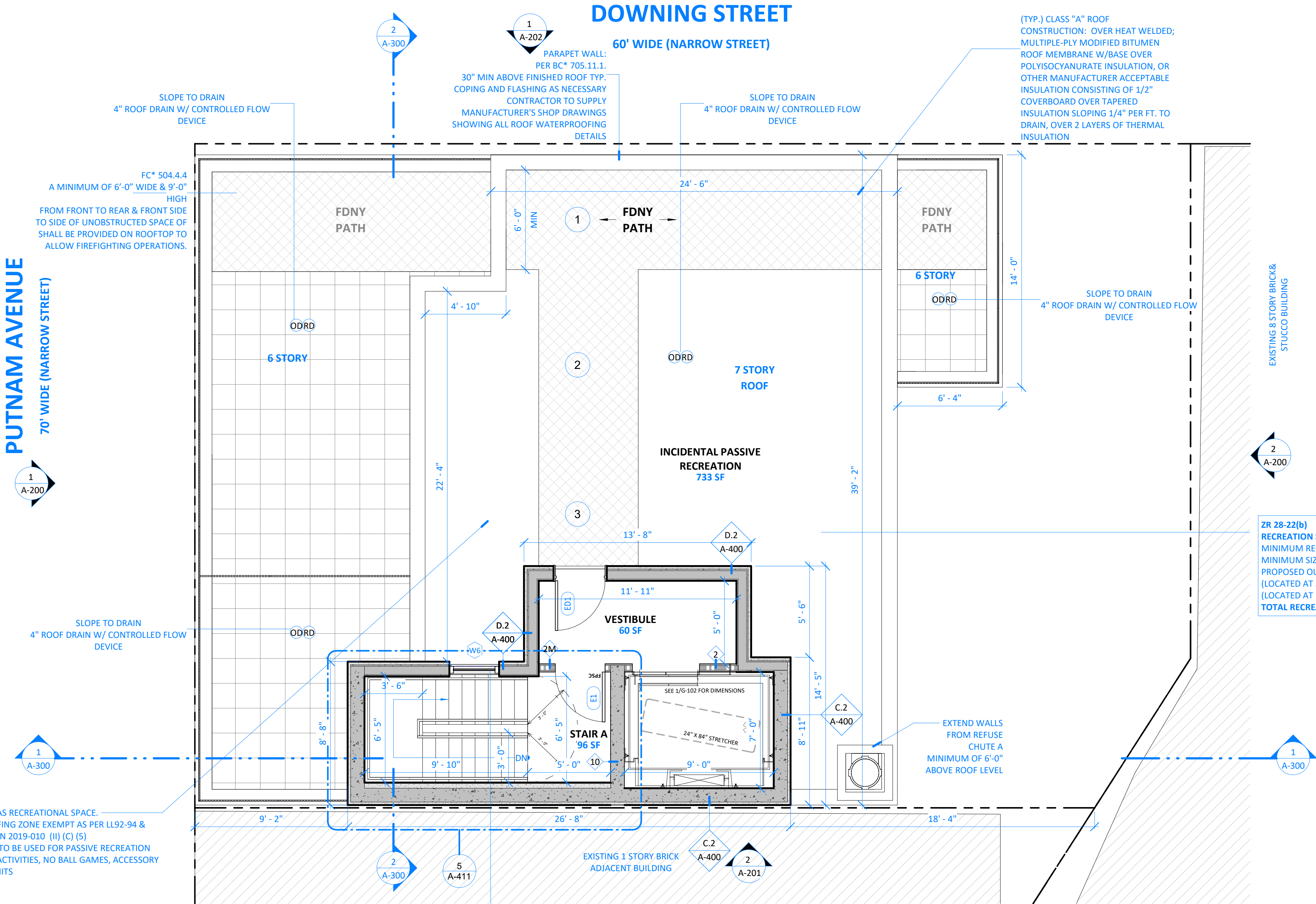
SCALE: As indicated
DRAWN BY: XX

A-106.00

SHEET: 28 OF 75

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WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 59.5 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.



1 ROOF PLAN
SCALE: 1/4" = 1'-0"

BC* 713.12.1.2 SMOKE VENT DIMENSIONS:
THE EFFECTIVE VENTING AREA SHALL NOT BE
LESS THAN 3 1/2 PERCENT OF THE MAXIMUM
SHAFT AREA AT ANY FLOOR, BUT IN NO EVENT
LESS THAN 72 S.I. (0.05 M2). OF THE TOTAL
REQUIRED VENT AREA: 2.38 SF
PROPOSED SHAFT AREA: 68 SF
REQUIRED VENT AREA: 12 SF
PROPOSED VENT AREA:

ROOF LEGEND



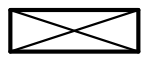
FDNY PATH



ROOF DRAIN



ROOF DRAIN OVERFLOW



MECHANICAL SHAFTS

GREEN ROOF SYSTEM
XXX SF

GREEN ROOF TAG



GREEN ROOF

FC 504 ROOFTOP ACCESS LEGEND:



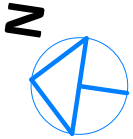
ROOFTOP ACCESS AND LANDING LOCATIONS



6' WIDE CLEAR PATH



6' WIDE DOOR CLEARANCE



203 CLIFTON PLACE, SUITE #20
BROOKLYN NY, 11216
T: (718) 484-3201

STRUCTURAL ENGINEER:
...

MEP ENGINEER:
...

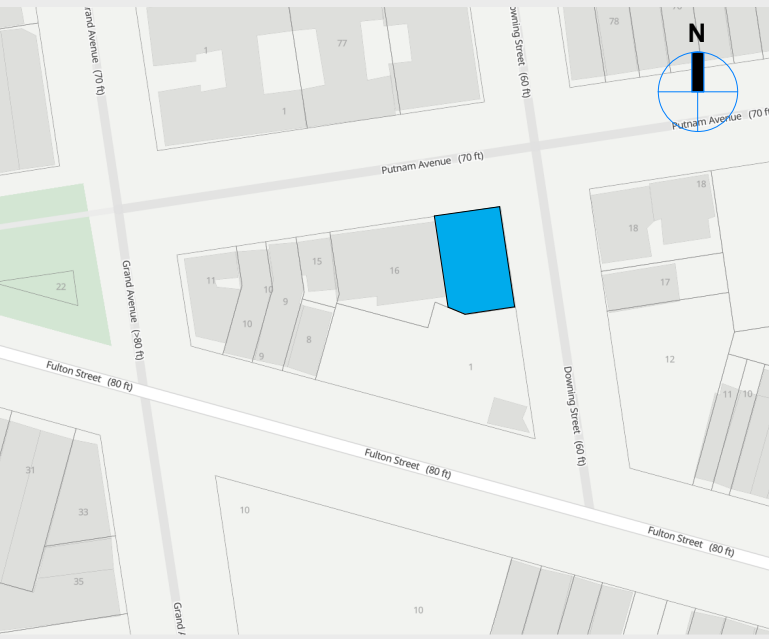
MUNICIPAL CONSULTANT:
...

OWNER:
...

NO.	DESCRIPTION	DATE
0	DOB FILING	9/20/2023

75% CONSTRUCTION DRAWINGS

SITE MAP



LOCATION:
28 PUTNAM AVENUE
BROOKLYN, NY 11238

PROJECT:
PROPOSED 6 STORY RESIDENTIAL
NEW BUILDING

DRAWING TITLE:
BULKHEAD PLAN

DOB # :
GC # 000000000-11
DOB BSCAN + STAMP :

DATE: 9/20/2023 3:14:36 PM

SCALE: 1/4" = 1'-0"

DRAWN BY: XX

A-107.00

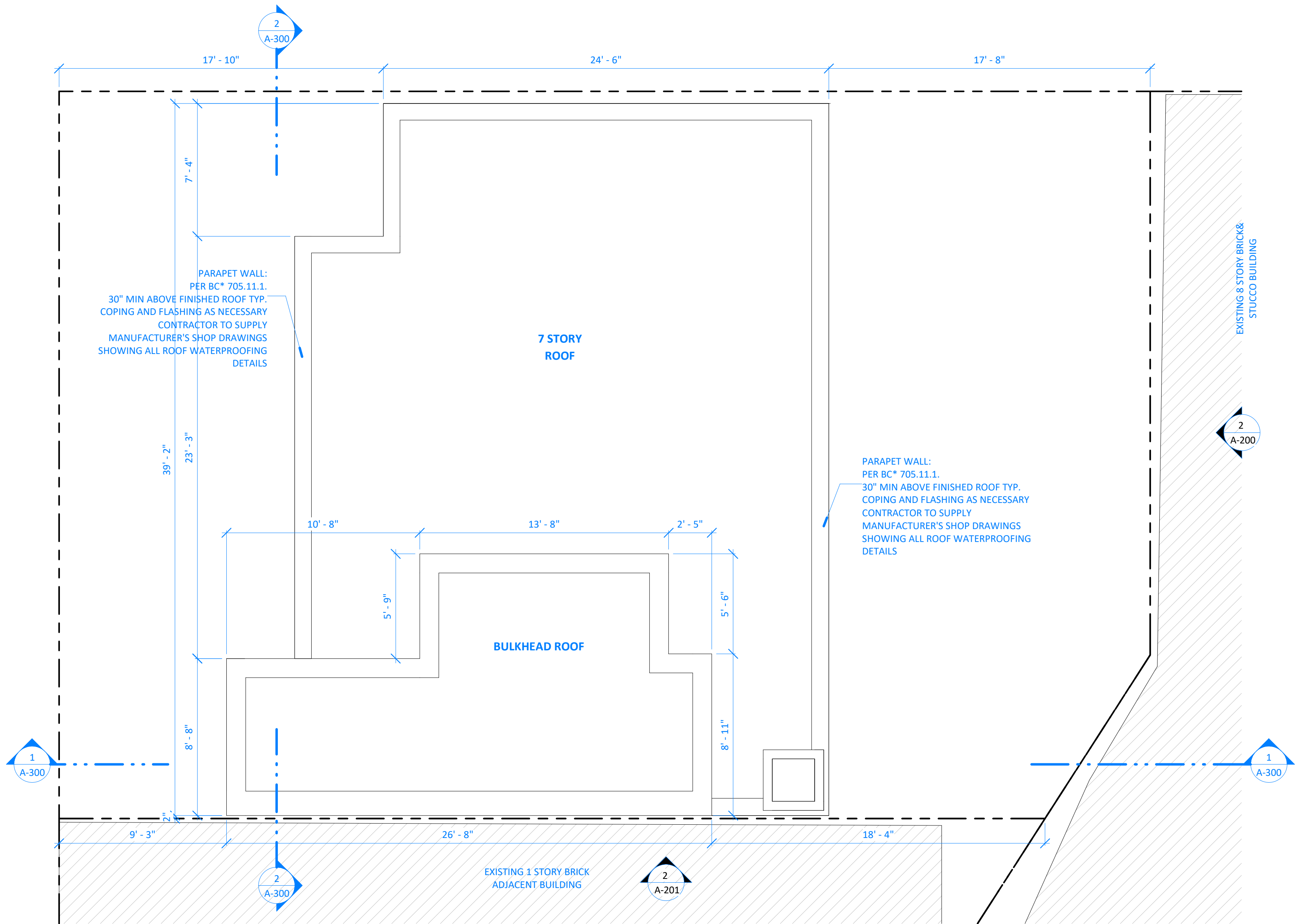
SHEET: 29 OF 75

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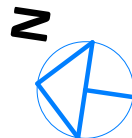
WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 59.5 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

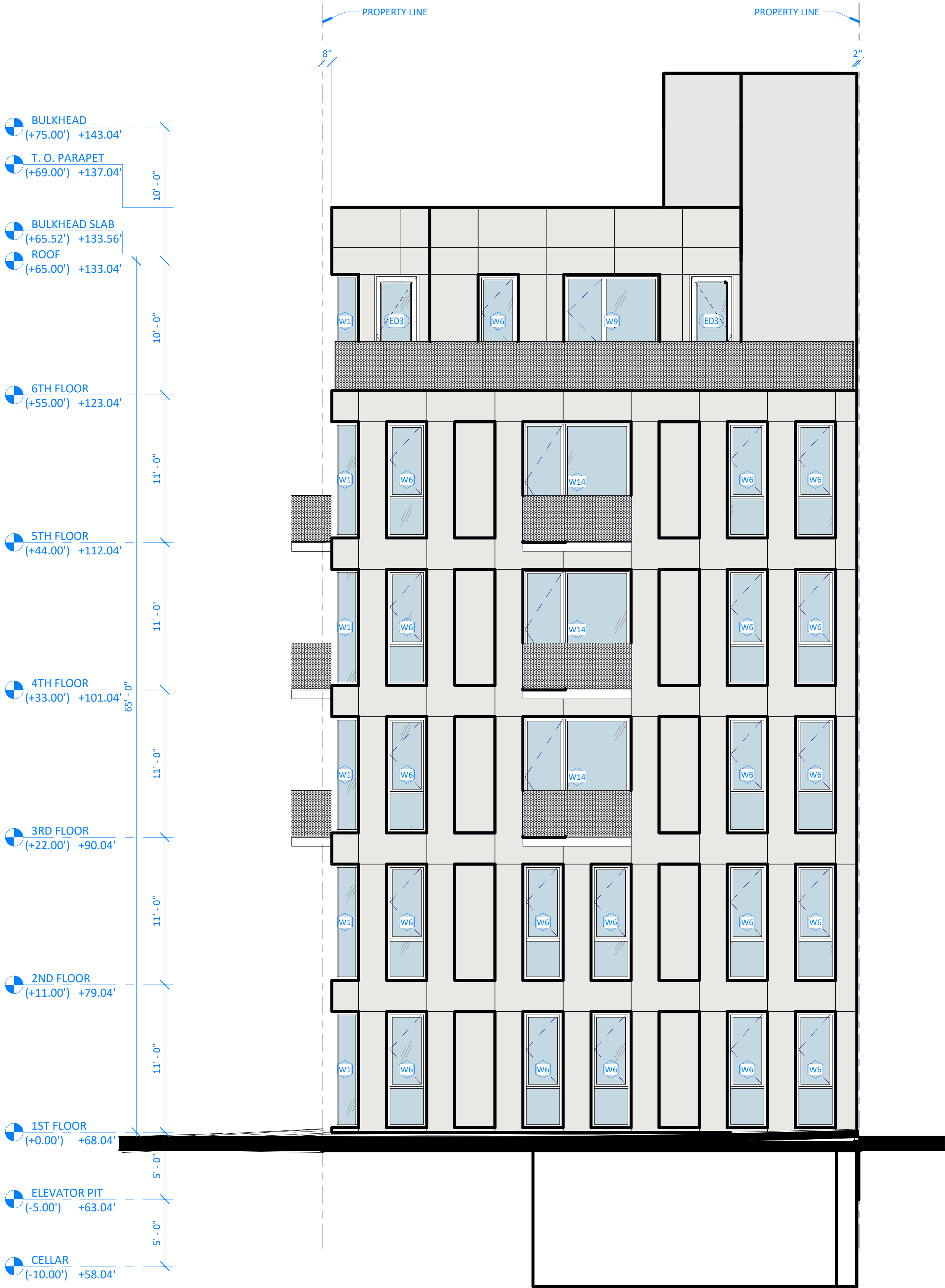
PUTNAM AVENUE
70' WIDE (NARROW STREET)

DOWNING STREET
60' WIDE (NARROW STREET)

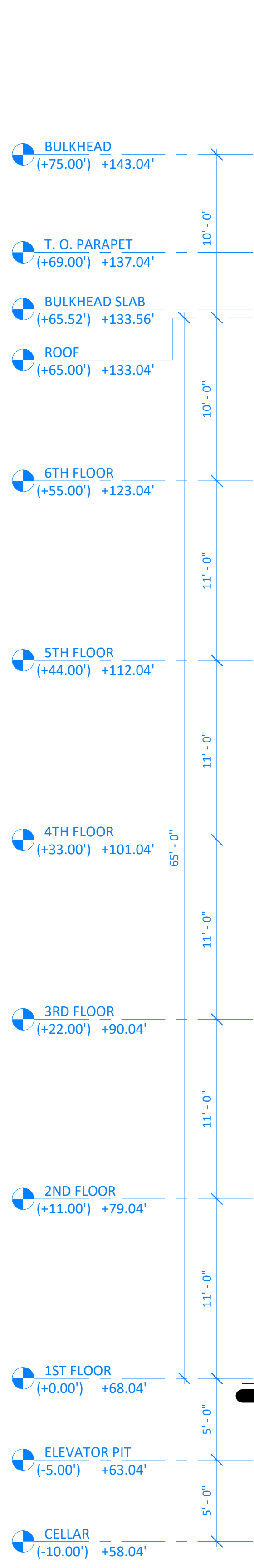


1 BULKHEAD PLAN
SCALE: 1/4" = 1'-0"

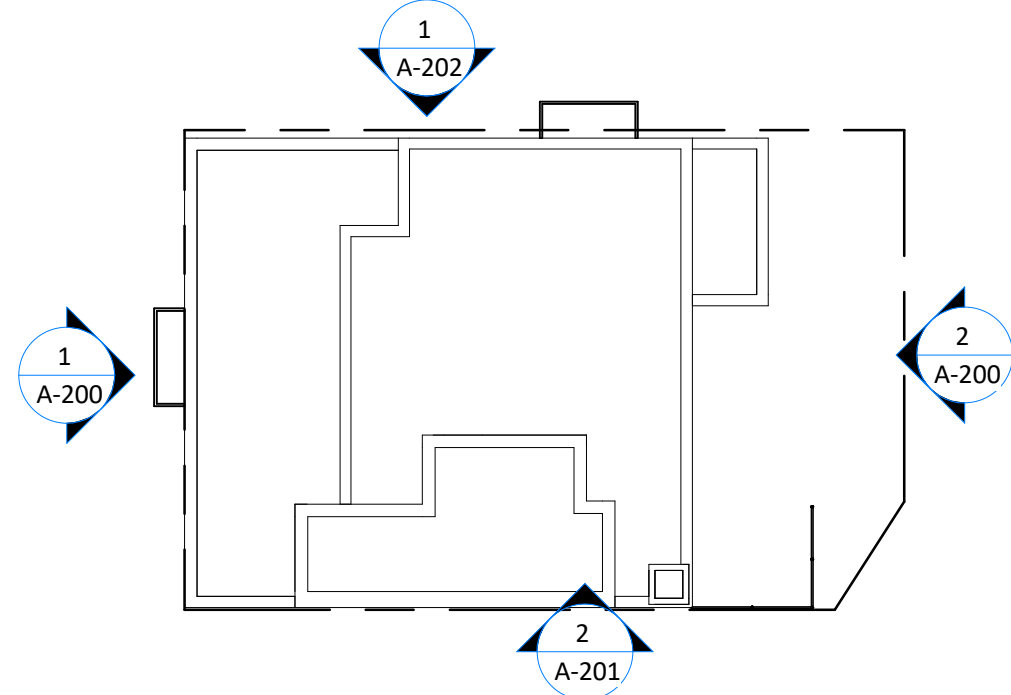




1 NORTH (PUTNAM AVENUE) ELEVATION
SCALE: 3/16" = 1'-0"



2 SOUTH (REAR) ELEVATION
SCALE: 3/16" = 1'-0"



EIFS - 2 MANUFACTURE DESCRIPTION	METAL - A MANUFACTURE DESCRIPTION
E2	M1

BC* 705.8 MAXIMUM AREA OF WALL OPENINGS - 6TH FLOOR
WALL AREA PER STORY: 392 SF
15' TO LESS THAN 20' TO LOT LINE = 25 % ALLOWABLE OPENINGS
WALL ALLOWABLE OPENING AREA = 392 SF X 25 % = 98 SF
TOTAL WALL FENESTRATION AREA: 86 SF
86 SF < 98 SF THEREFORE OK

BC* 705.8 MAXIMUM AREA OF WALL OPENINGS - 2ND-5TH FLOOR
WALL AREA PER STORY: 277 SF
15' TO LESS THAN 20' TO LOT LINE = 25 % ALLOWABLE OPENINGS
WALL ALLOWABLE OPENING AREA = 277 SF X 25 % = 69 SF
TOTAL WALL FENESTRATION AREA: 37 SF
37 SF < 69 SF THEREFORE OK

BC* 705.8 MAXIMUM AREA OF WALL OPENINGS - 1ST FLOOR
WALL AREA PER STORY: 277 SF
15' TO LESS THAN 20' TO LOT LINE = 25 % ALLOWABLE OPENINGS
WALL ALLOWABLE OPENING AREA = 277 SF X 25 % = 69 SF
TOTAL WALL FENESTRATION AREA: 66 SF
66 SF < 69 SF THEREFORE OK

BC* 705.8 MAXIMUM AREA OF WALL OPENINGS - 1ST FLOOR
WALL AREA PER STORY: 154 SF
10' TO LESS THAN 15' TO LOT LINE = 15 % ALLOWABLE OPENINGS
WALL ALLOWABLE OPENING AREA = 154 SF X 15 % = 23 SF
TOTAL WALL FENESTRATION AREA: 22 SF
22 SF < 23 SF THEREFORE OK

NOTE:
ALL EXTERIOR LIGHTING SHALL HAVE PHOTOSENSOR ,TIME OR
ASTRONOMICAL CONTROLS

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BROOKLYN NY, 11216
T: (718) 484-3201

STRUCTURAL ENGINEER:
...

MEP ENGINEER:
...

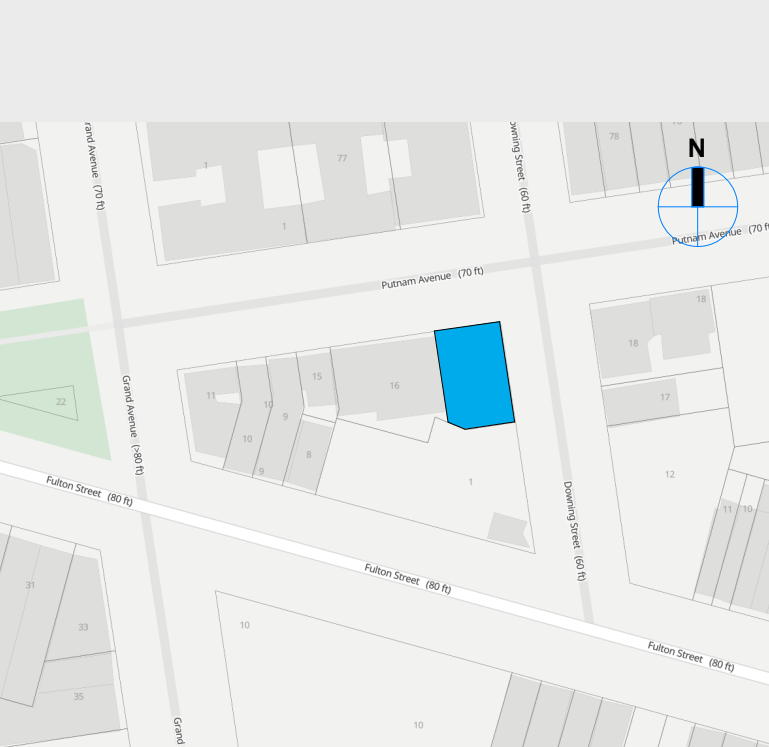
MUNICIPAL CONSULTANT:
...

OWNER:
...

NO.	DESCRIPTION	DATE
0	DOB FILING	9/20/2023

75% CONSTRUCTION DRAWINGS

SITE MAP



LOCATION:
**28 PUTNAM AVENUE
BROOKLYN, NY 11238**

PROJECT:
**PROPOSED 6 STORY RESIDENTIAL
NEW BUILDING**

DRAWING TITLE:
**NORTH (PUTNAM AVENUE) & SOUTH (REAR)
ELEVATION**

DOB # :
GC # 000000000-11

DOB BSCAN + STAMP :

DATE: 9/20/2023 3:14:49 PM

SCALE: As indicated
DRAWN BY: XX

A-200.00

SHEET: 31 OF 75
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BROOKLYN NY, 11216
T: (718) 484-3201

STRUCTURAL ENGINEER:
...

MEP ENGINEER:
...

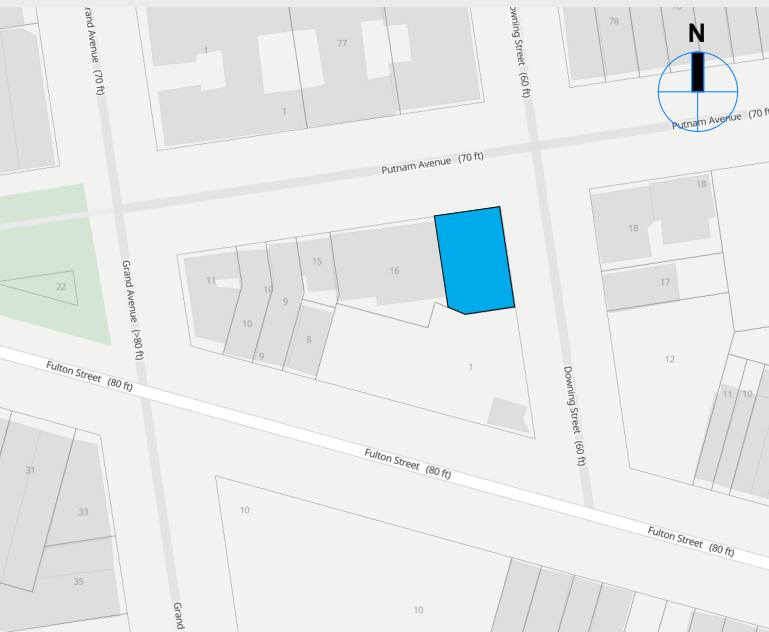
MUNICIPAL CONSULTANT:
...

OWNER:
...

NO.	DESCRIPTION	DATE
0	DOB FILING	9/20/2023

75% CONSTRUCTION DRAWINGS

SITE MAP



LOCATION:
**28 PUTNAM AVENUE
BROOKLYN, NY 11238**

PROJECT:
**PROPOSED 6 STORY RESIDENTIAL
NEW BUILDING**

DRAWING TITLE:
WEST (REAR STREET) ELEVATION

DOB # :
GC # 000000000-11

DOB BSCAN + STAMP :

DATE: 9/20/2023 3:14:53 PM

SCALE: As indicated

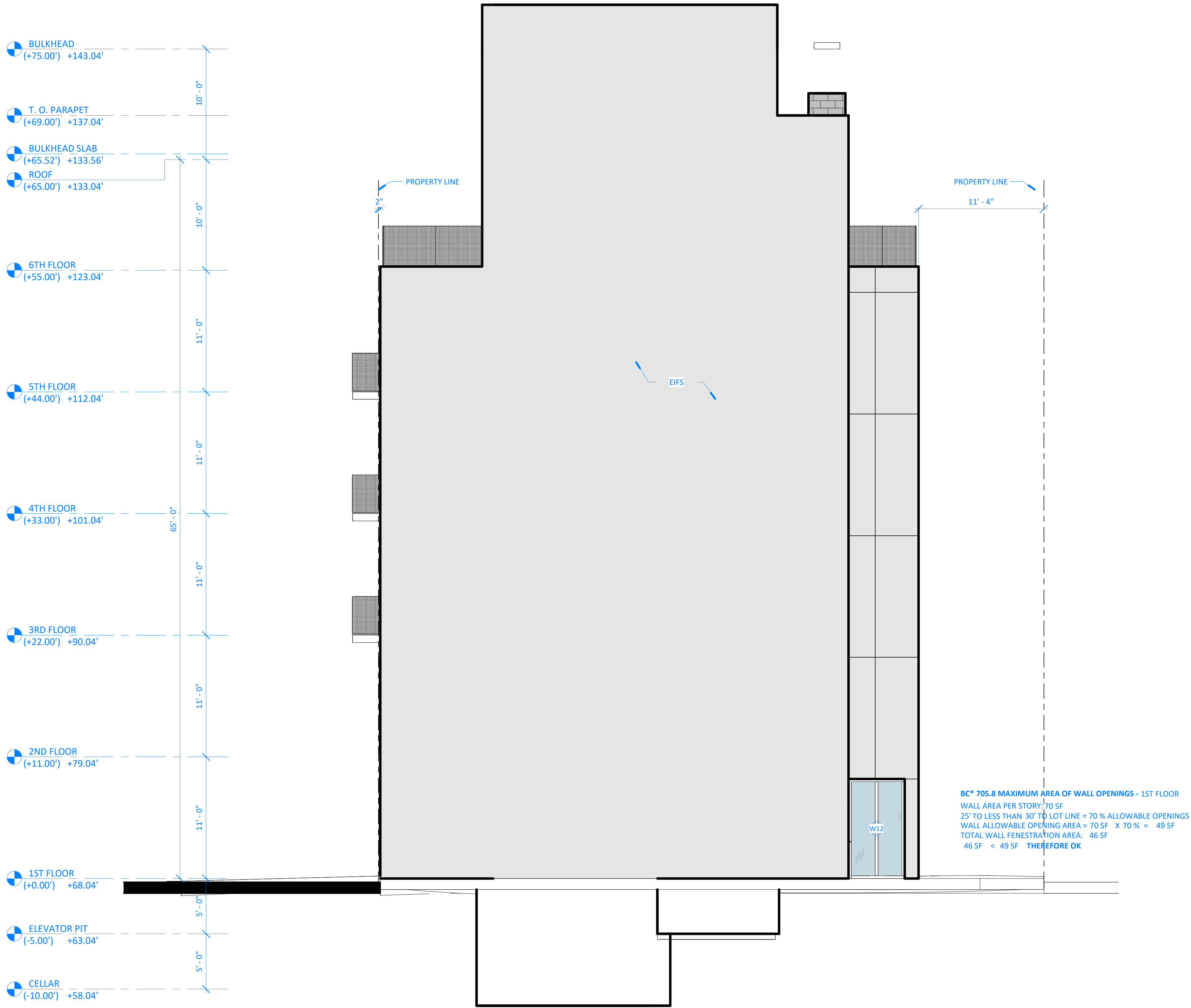
DRAWN BY: XX

A-201.00

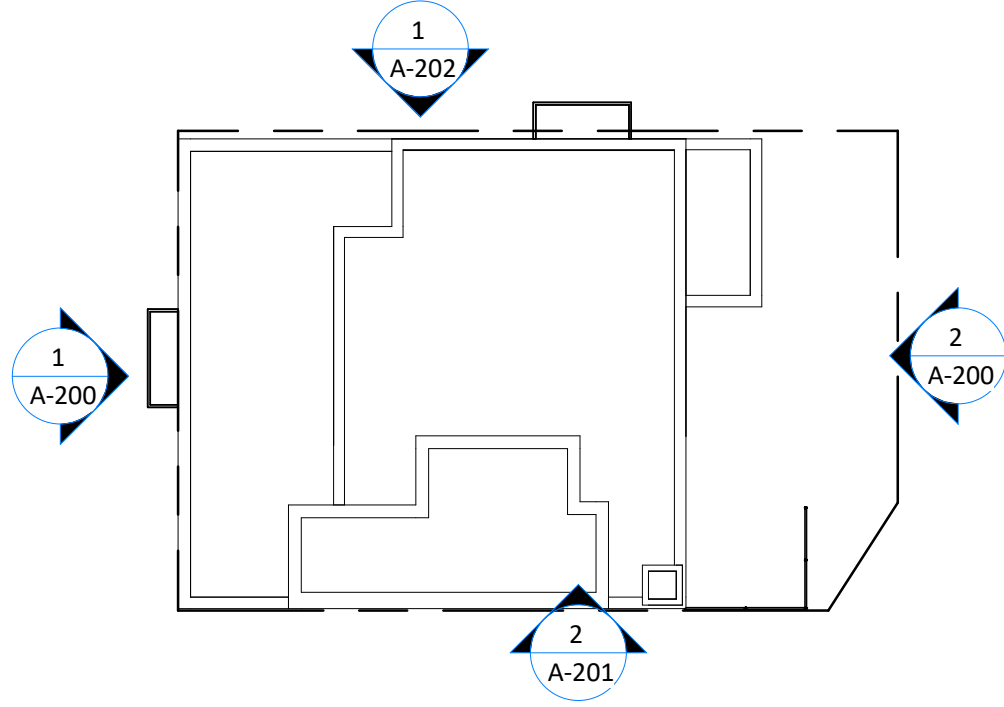
SHEET: 32 OF 75

C COPYRIGHT 2022 S.WIEDER ARCHITECT PC

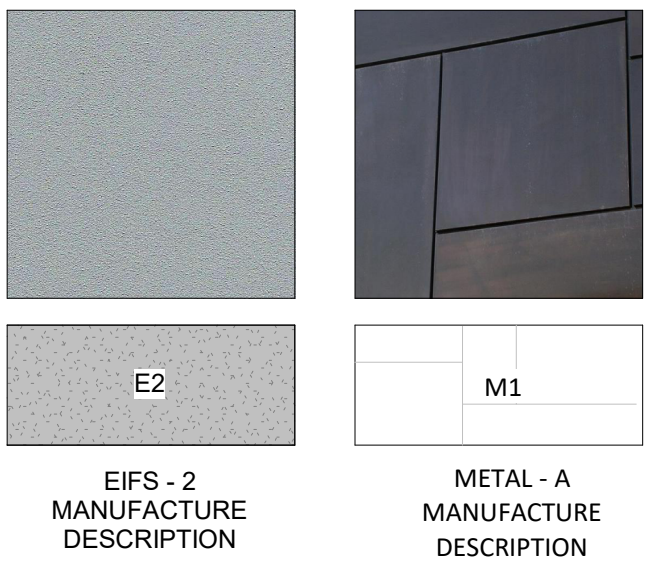
WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 59.5 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.



2 WEST (REAR) ELEVATION
SCALE: 3/16" = 1'-0"



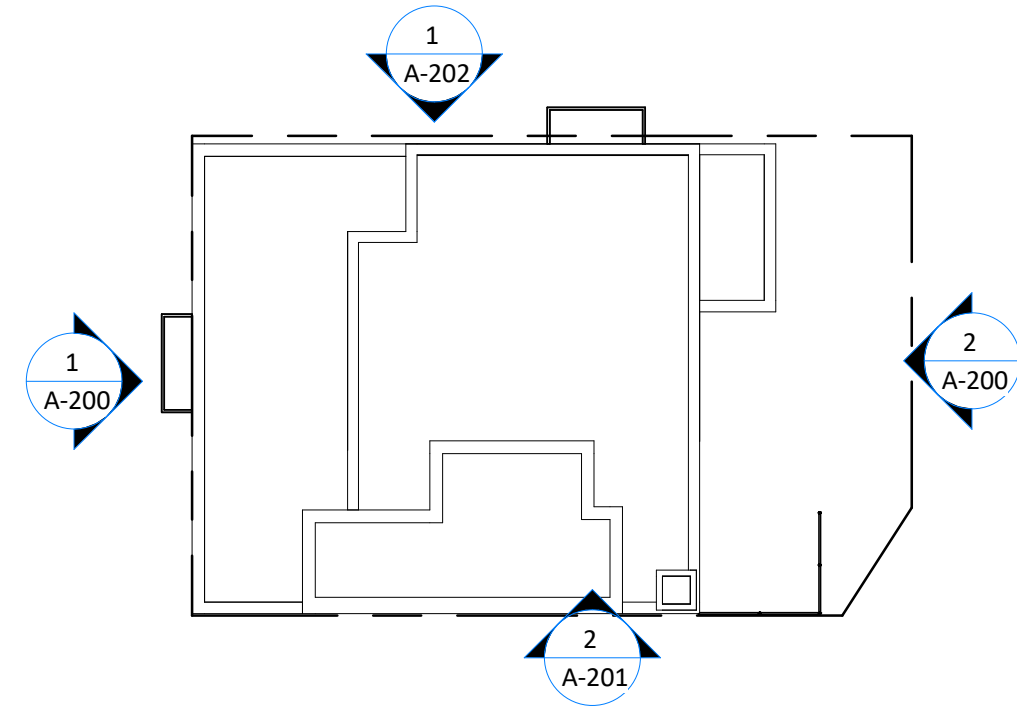
1 KEY PLAN ELEVATIONS
SCALE: 1/16" = 1'-0"



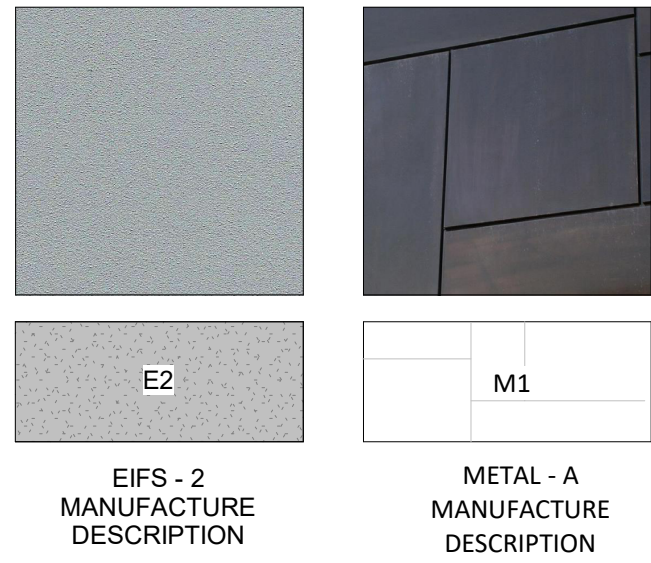
NOTE:
ALL EXTERIOR LIGHTING SHALL HAVE PHOTOSENSOR ,TIME OR
ASTRONOMICAL CONTROLS



1 **EAST (DOWNING STREET) ELEVATION**
SCALE: 3/16" = 1'-0"



2 **KEY PLAN ELEVATIONS**
SCALE: 1/16" = 1'-0"



NOTE:
ALL EXTERIOR LIGHTING SHALL HAVE PHOTOSENSOR ,TIME OR ASTRONOMICAL CONTROLS

203 CLIFTON PLACE, SUITE #20
BROOKLYN NY, 11216
T: (718) 484-3201

STRUCTURAL ENGINEER:
...

MEP ENGINEER:
...

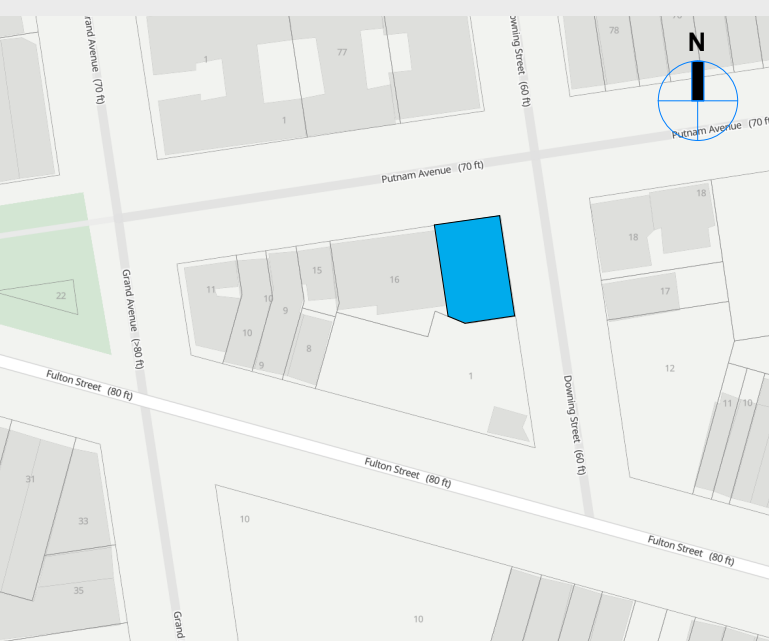
MUNICIPAL CONSULTANT:
...

OWNER:
...

NO.	DESCRIPTION	DATE
0	DOB FILING	9/20/2023

75% CONSTRUCTION DRAWINGS

SITE MAP



LOCATION:
**28 PUTNAM AVENUE
BROOKLYN,NY 11238**

PROJECT:
**PROPOSED 6 STORY RESIDENTIAL
NEW BUILDING**

DRAWING TITLE:
EAST (DOWNING STREET) ELEVATION

DOB # :
GC # 000000000-11
DOB BSCAN + STAMP :

DATE: 9/20/2023 3:14:58 PM

SCALE: As indicated
DRAWN BY: XX

A-202.00

SHEET: 33 OF 75
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WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 59.5 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

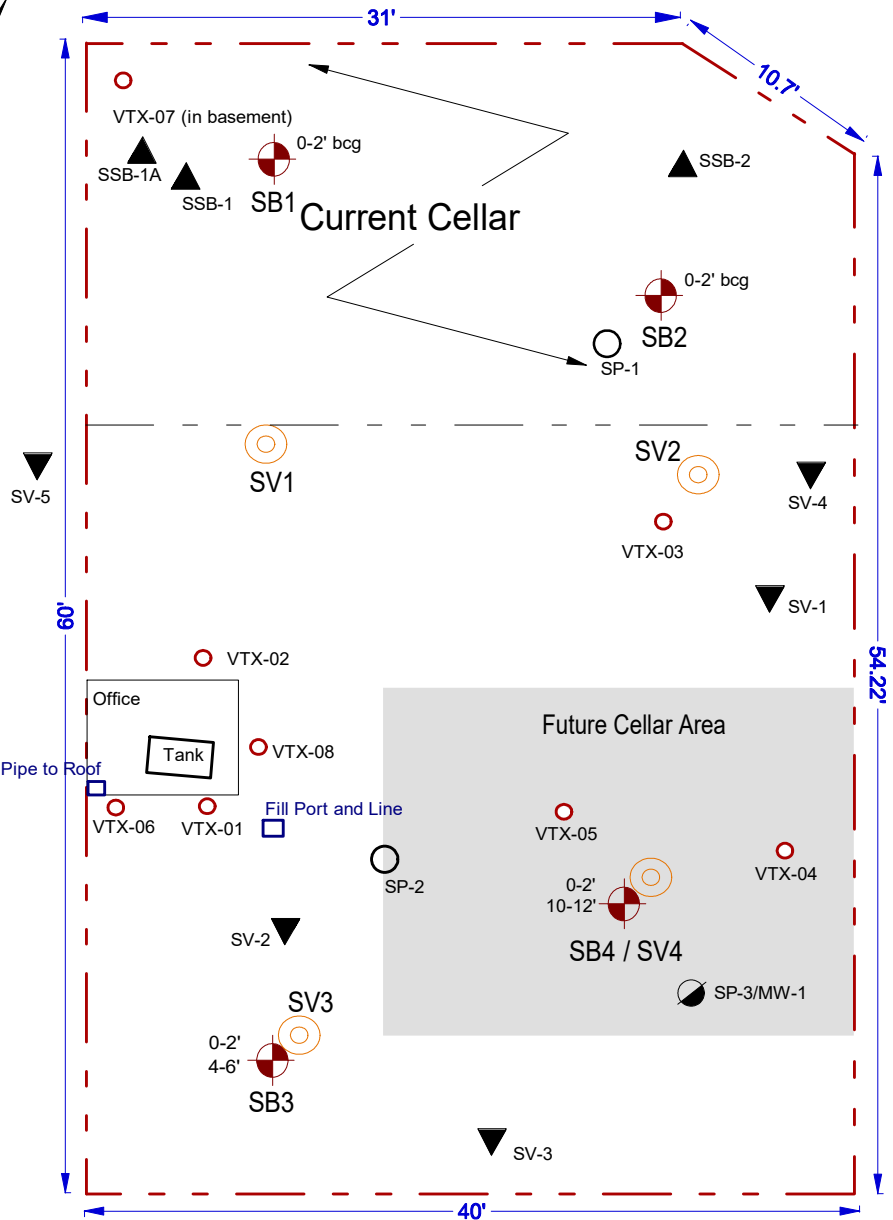


SV-6

SIDEWALK

DOWNING STREET

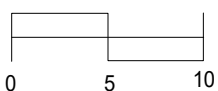
SIDEWALK



SIDEWALK

PUTNAM AVENUE

SCALE: (feet)



Scale: 1 Inch = 10 feet

KEY:

Property Boundary

Future Cellar Area

Soil Boring Sampling Location - Vertex 2014

Soil Boring Sampling Location - HydroTech 2016

Soil Boring/Monitoring Well Sampling Location - HydroTech 2016

Sub-slab Soil Vapor Sampling Locations - HydroTech 2016

Soil Vapor Sampling Locations - HydroTech 2016

BEC Soil Boring Sampling Location

BEC Soil Vapor Sampling Location

bcg - below cellar grade



SV-6

SIDEWALK

DOWNING STREET

SIDEWALK

VTX-07 - Not Analyzed

31'

10.7'

VTX-07 (in basement)

SSB-1A

SSB-1

SB1

Current Cellar

0-2' bcg

SSB-2

0-2' bcg

SP-1

SV1

VTX-03 (0-0.5') 7/9/2014

No Exceedances

VTX-03

SV-4

SV-5

VTX-02 (5-5.5') 7/9/2014

No Exceedances

VTX-02

Office

Tank

Vent Pipe to Roof

VTX-06 (7.5-8') 7/9/2014

No Exceedances

VTX-08

VTX-01 (7-7.5') 7/9/2014

No Exceedances

SV-2

0-2'

4-6'

SB3

SV3

SP-2

Future Cellar Area

VTX-05 (0-0.5') 7/9/2014

No Exceedances

VTX-05

VTX-04

0-2'

10-12'

SB4 / SV4

SP-3/MW-1

0-2'

10-12'

SP-3/MW-1

SP-1 (7-9') 6/3/2016
VOCs (ug/Kg) < UUSCOs
SVOCs (ug/Kg) < UUSCOs
Pesticides (ug/Kg) < UUSCOs
Metals (mg/Kg) < UUSCOs

SP-1 (9-10') 6/3/2016
VOCs (ug/Kg) < UUSCOs
SVOCs (ug/Kg) < UUSCOs
Pesticides (ug/Kg) < UUSCOs
Metals (mg/Kg) < UUSCOs

SP-2 (0-2') 6/3/2016
VOCs (ug/Kg) < UUSCOs
SVOCs (ug/Kg) < UUSCOs
Pesticides (ug/Kg) < UUSCOs
Metals (mg/Kg) < UUSCOs

SP-2 (10-12') 6/3/2016
VOCs (ug/Kg) < UUSCOs
SVOCs (ug/Kg) < UUSCOs
Pesticides (ug/Kg) < UUSCOs
Metals (mg/Kg) < UUSCOs

SP-3 (0-2') 6/3/2016
VOCs (ug/Kg) < UUSCOs
SVOCs (ug/Kg) < UUSCOs
Pesticides (ug/Kg) < UUSCOs
Metals (mg/Kg) < UUSCOs

SP-3 (10-12') 6/3/2016
VOCs (ug/Kg) < UUSCOs
SVOCs (ug/Kg) < UUSCOs
Pesticides (ug/Kg) < UUSCOs
Metals (mg/Kg) < UUSCOs

54.22'

66'

40'

SIDEWALK

PUTNAM AVENUE

KEY:

Property Boundary

Future Cellar Area

Soil Boring Sampling Location - Vertex 2014

Soil Boring Sampling Location - HydroTech 2016

Soil Boring/Monitoring Well Sampling Location - HydroTech 2016

Sub-slab Soil Vapor Sampling Locations - HydroTech 2016

Soil Vapor Sampling Locations - HydroTech 2016

BEC Soil Boring Sampling Location

BEC Soil Vapor Sampling Location

bcg - below cellar grade

SCALE: (feet)



Scale: 1 Inch = 10 feet

BRUSSEE
Environmental Corp.

PHONE: 631.338.1749

Figure No.
6A

Site Name: **REDEVELOPMENT PROJECT**Site Address: **28 PUTNAM AVENUE, BROOKLYN, NY**Drawing Title: **SOIL EXCEEDANCES MAP - VERTEX PH II LSI/HYDROTECH RI**



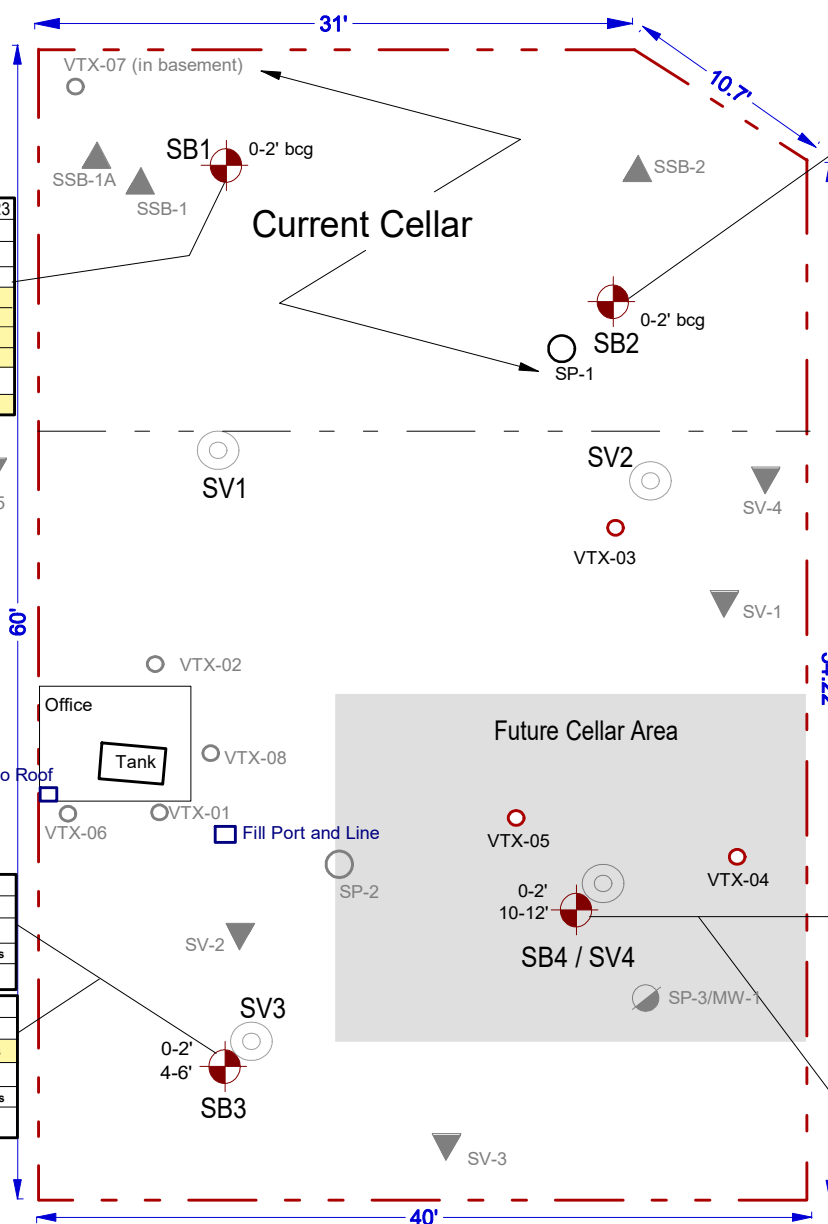
SV-6

SIDEWALK

DOWNING STREET

SIDEWALK

SV-5



SB1 (0-2' bcg) 10/10/2023	
VOCs (ug/Kg) < UUSCOs	
SVOCs (ug/Kg) < UUSCOs	
Pesticides (ug/Kg)	
4,4'-DDE	23
4,4'-DDT	13
a-Chlordane	140
Dieldrin	17
Metals (mg/Kg)	
Nickel	103

SB2 (0-2' bcg) 10/10/2023	
VOCs (ug/Kg) < UUSCOs	
SVOCs (ug/Kg)	
Benz(a)anthracene	1,600
Benzo(a)pyrene	1,700
Benzo(b)fluoranthene	2,000
Chrysene	1,700
Indeno(1,2,3-cd)pyrene	1,000
Pesticides (ug/Kg) < UUSCOs	
Metals (mg/Kg)	
Cadmium	3.17
Copper	159
Lead	2,110
Mercury	0.24
Nickel	43.6
Zinc	304

Duplicate 10/10/2023	
VOCs (ug/Kg) < UUSCOs	
SVOCs (ug/Kg)	
Benz(a)anthracene	1,400
Benzo(a)pyrene	1,200
Benzo(b)fluoranthene	1,600
Chrysene	1,400
Indeno(1,2,3-cd)pyrene	590
Pesticides (ug/Kg) < UUSCOs	
4,4'-DDT	9.2
Metals (mg/Kg)	
Copper	148
Lead	2,220
Zinc	291

SB3 (0-2') 10/9/2023	
VOCs (ug/Kg) < UUSCOs	
SVOCs (ug/Kg) < UUSCOs	
Pesticides (ug/Kg) < UUSCOs	
Metals (mg/Kg) < UUSCOs	
Acetone	103
SVOCs (ug/Kg) < UUSCOs	
Pesticides (ug/Kg) < UUSCOs	
Metals (mg/Kg) < UUSCOs	

SB4 (0-2') 10/9/2023	
VOCs (ug/Kg) < UUSCOs	
SVOCs (ug/Kg) < UUSCOs	
Pesticides (ug/Kg) < UUSCOs	
Metals (mg/Kg) < UUSCOs	

SB4 (10-12') 10/9/2023	
VOCs (ug/Kg) < UUSCOs	
SVOCs (ug/Kg) < UUSCOs	
Pesticides (ug/Kg) < UUSCOs	
Metals (mg/Kg) < UUSCOs	

SCALE: (feet)



Scale: 1 Inch = 10 feet

KEY:

Property Boundary

Future Cellar Area

Soil Boring Sampling Location - Vertex 2014

Soil Boring Sampling Location - HydroTech 2016

Soil Boring/Monitoring Well Sampling Location - HydroTech 2016

Sub-slab Soil Vapor Sampling Locations - HydroTech 2016

Soil Vapor Sampling Locations - HydroTech 2016

BEC Soil Boring Sampling Location

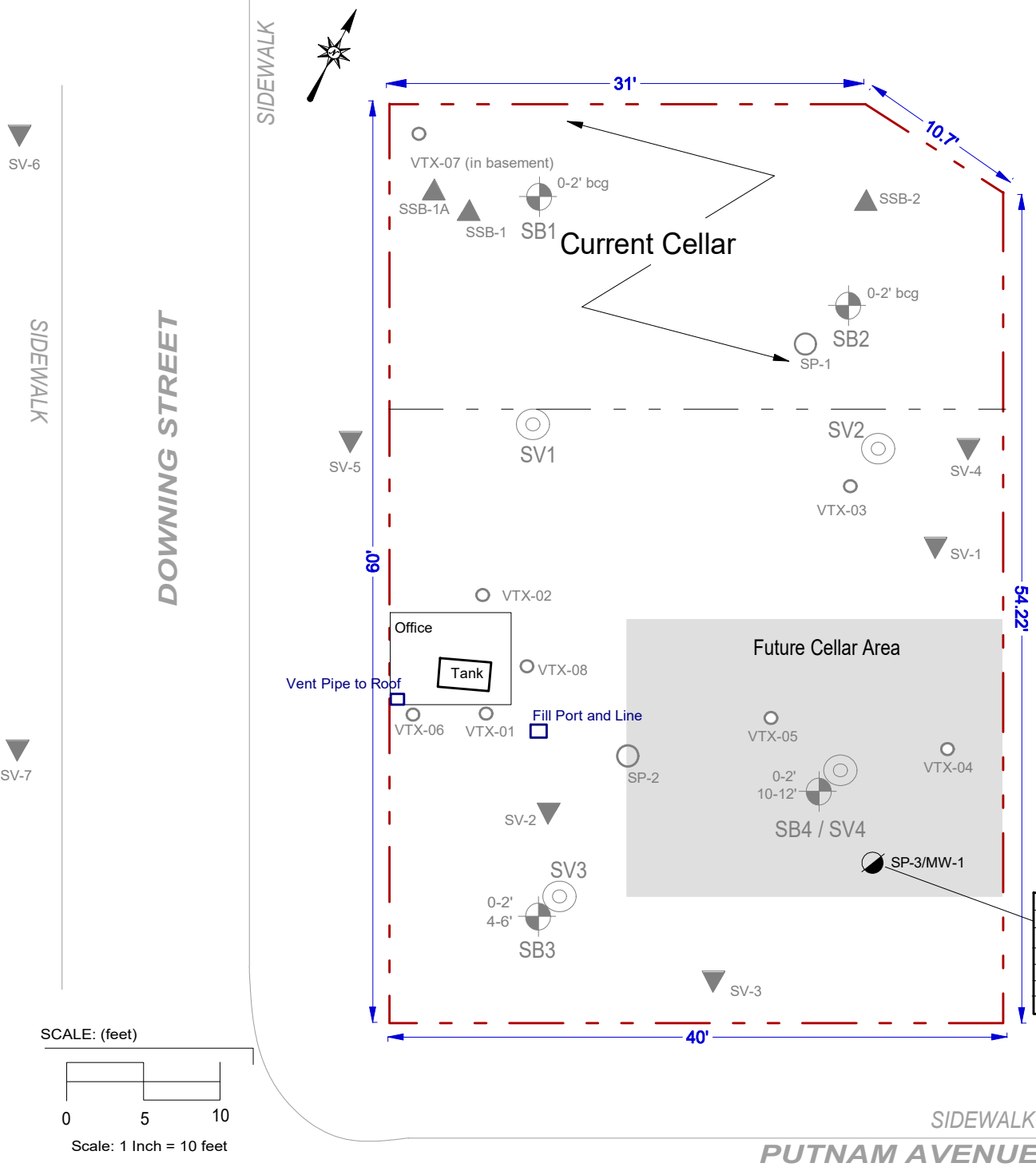
BEC Soil Vapor Sampling Location

bcg - below cellar grade

Soil Exceedance above UUSCOs

Soil Exceedance above RSCOs

Soil Exceedance above RRSCOs



MW-1 6/8/2016	
VOCs (ug/L) < GQSs	
SVOCs (ug/L) < GQSs	
Pesticides/PCBs (ug/L) < GQSs	
Dissolved Metals (mg/L)	
Manganese	718
Sodium	35,000

KEY:

- Property Boundary
 - Future Cellar Area
 - Soil Boring Sampling Location - Vertex 2014
 - Soil Boring Sampling Location - HydroTech 2016
 - Soil Boring/Monitoring Well Sampling Location - HydroTech 2016
 - Sub-slab Soil Vapor Sampling Locations - HydroTech 2016
 - Soil Vapor Sampling Locations - HydroTech 2016
 - BEC Soil Boring Sampling Location
 - BEC Soil Vapor Sampling Location
 - Groundwater Exceedance above GQSs
- bcg - below cellar grade

APPENDIX A

Previous Reports

(VERTEX PHASE II LSI & HYDRO TECH RI)

APPENDIX B

Soil Boring Logs

BRUSSE
Environmental Corp.

SB1

Location: Performed within existing cellar 6ft from Northern property boundary, 10ft from West property boundary			Depth to Water (ft. from grade.)		Site Elevation Datum		
Site Name: Redevelopment Project		Address: 28 Putnam Avenue Brooklyn, NY		Date	DTW	Ground Elevation	
				Groundwater depth		Well Specifications	
Drilling Company: Brussee Environmental Corp.		Method: Hand Auger					
Date Started: 10/10/2023		Date Completed: 10/10/2023					
Completion Depth: 2 Feet		Geologist Byron Garcia					

[illegible]

BRUSSE
Environmental Corp.

SB2

Location: Performed within existing cellar 13ft from Northern property boundary, 10ft from East property boundary			Depth to Water (ft. from grade.)		Site Elevation Datum		
Site Name: Redevelopment Project		Address: 28 Putnam Avenue Brooklyn, NY		Date	DTW	Ground Elevation	
				Groundwater depth		Well Specifications	
Drilling Company: Brussee Environmental Corp		Method: Hand Auger					
Date Started: 10/10/2023		Date Completed: 10/10/2023					
Completion Depth: 2 Feet		Geologist Byron Garcia					

[illegible]

BRUSSE
Environmental Corp.

SB3

Location: Performed 7ft from Southern property boundary, 10ft from West property boundary			Depth to Water (ft. from grade.)		Site Elevation Datum		
Site Name: Redevelopment Project		Address: 28 Putnam Avenue Brooklyn, NY		Date	DTW	Ground Elevation	
				Groundwater depth			
Drilling Company: Coastal Environmental Solutions		Method: Geoprobe 420M		Well Specifications			
Date Started: 10/9/2023		Date Completed: 10/9/2023					
Completion Depth: 6 Feet		Geologist Byron Garcia					

[illegible]


Geologic Boring Log Details

BRUSSEE
Environmental Corp.

14 EVANS LANE, MILLER PLACE, NY 11764
CELL: 631-338-1749

SB4

Location: Performed 15ft from Southern property boundary, 12ft from East property boundary			Depth to Water (ft. from grade.)		Site Elevation Datum	
Site Name: Redevelopment Project		Address: 28 Putnam Avenue Brooklyn, NY		Date	DTW	Ground Elevation
				Groundwater depth		
Drilling Company: Coastal Environmental Solutions		Method: Geoprobe 420M		Well Specifications		
Date Started: 10/9/2023		Date Completed: 10/9/2023				
Completion Depth: 12 Feet		Geologist Byron Garcia				

SB4 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Recovery (in.)	Blow per 6 in.	PID (ppm)	
	0				21" of medium brown silty sand.
	to	21		0.0	
	3				*Retained soil sample SB4 (0-2)
	to	20		0.0	20" of medium brown silty sand.
	6				
	to	19		0.0	19" of medium brown silty sand.
	9				
	to	17		0.0	17" of medium brown silty sand.
	12				*Retained soil sample SB4 (10-12)



Hydro Tech Environmental, Corp.

Main Office

77 Arkay Drive Suite G
Hauppauge, New York, 11788
T (631) 462-5866 · F (631) 462-5877

NYC Office

15 Ocean Avenue 2nd Floor
Brooklyn, New York 11225
T (718) 636-0800 · F (718) 636-0900

www.hydrotechenvironmental.com

Soil Probe Log

Job No:	160116	Date:	06/03/2016	Page:	1 of 1
Location:	29 Putnam Avenue			Sampling Interval:	2 ft
	Brooklyn, NY			Sampling Method:	Grab
Boring No.:	SP-1			Depth to Water:	n/a
Drilling Method:	Direct Push			Driller:	HTE
Total Depth:	10 ft bgs				

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	ML - Inorganic Silt / Sandy Silt	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	CL - Inorganic Clays/Sandy Clay	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	OL - Inorganic Silts/Organic Silty Clay	PT - Peat/High Organics
GC - Clayey Gravel	SC - Clayey Sand	MH - Elastic Silts	

Depth Below Grade and Lithology	PID Reading (ppm)	USCS	Soil Description
0	0.0	SP	Basement
-2	0.0	SP	Basement
-4	0.0	SP	Basement
-6	0.0	SP	Basement
-7.5	0.0		Concrete
-8	0.0	SP	Light brown coarse sand with pebbles
-10	0.0		Light brown coarse sand with pebbles



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Soil Probe Log

Job No:	160116	Date:	06/03/2016	Page:	1 of 1
Location:	29 Putnam Avenue			Sampling Interval:	2 ft
	Brooklyn, NY			Sampling Method:	Grab
Boring No.:	SP-2			Depth to Water:	n/a
Drilling Method:	Direct Push			Driller:	HTE
Total Depth:	12 ft bgs				

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	ML - Inorganic Silt / Sandy Silt	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	CL - Inorganic Clays/Sandy Clay	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	OL - Inorganic Silts/Organic Silty Clay	PT - Peat/High Organics
GC - Clayey Gravel	SC - Clayey Sand	MH - Elastic Silts	

Depth Below Grade and Lithology	PID Reading (ppm)	USCS	Soil Description
0	0.0	SP	Light brown coarse sand with pebbles
-2	0.0	SP	Light brown coarse sand with pebbles
-4	0.0	SP	Light brown coarse sand with pebbles
-6	0.0	SP	Light brown coarse sand with pebbles
-8	0.0	SP	Light brown coarse sand with pebbles
-10	0.0	SP	Light brown coarse sand with pebbles (refusal)
-12			



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Soil Probe Log


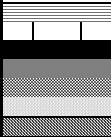
Job No:	160116	Date:	06/03/2016	Page:	1 of 1
Location:	29 Putnam Avenue			Sampling Interval:	2 ft
	Brooklyn, NY			Sampling Method:	Grab
Boring No.:	SP-3			Depth to Water:	n/a
Drilling Method:	Direct Push			Driller:	HTE
Total Depth:	12 ft bgs				


USCS SYMBOLS


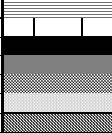
GW - Well Graded Gravel	SW - Well Graded Sand	ML - Inorganic Silt / Sandy Silt	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	CL - Inorganic Clays/Sandy Clay	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	OL - Inorganic Silts/Organic Silty Clay	PT - Peat/High Organics
GC - Clayey Gravel	SC - Clayey Sand	MH - Elastic Silts	


Depth Below Grade and Lithology	PID Reading (ppm)	USCS	Soil Description
0	0.0	SP	Dark brown coarse sand with rocks
-2	0.0	SP	Light brown coarse sand with rocks
-4	0.0	SP	Light brown coarse sand with rocks
-6	0.0	SP	Light brown coarse sand with rocks
-8	0.0	SP	Light brown coarse sand with rocks
-10	0.0	SP	Light brown coarse sand with rocks (refusal)
-12			

SOIL BORING / MONITORING WELL CONSTRUCTION LOG										
		PROJECT: 28 Putnam Ave				PROJECT NO.: 29484		BORING NO.: VTX-01		
		LOCATION: 28 Putnam Ave, Brooklyn NY				DRILLER: Hawk Drilling		WELL:		
		Date Start: 7/9/2014				Date Finish: 7/9/2014		INSPECTOR: Nicole Davies (VERTEX)		
		SAMPLER		CASING		CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data
TYPE Geoprobe-Dingo						RISER ELEV.:		Datum:		
SIZE (ID) 2"						DATE:				
HAMMER (LB.) N/A						TIME:		Elevation (ft):		
FALL (IN.) N/A						DEPTH (ft):		Not Encountered		
SAMPLE INFORMATION					SOIL DESCRIPTION			WELL CONST		WELL DETAILS
DEPTH / ELEV	Interval	PEN / REC	BLOWS/6"	PID (ppm)						Flush Mount Concrete
1	0-4'	4/3.5'	NA	1.2	0.0-0.5': Concrete					
2				1.1	0.5-4.0': Brown, fine sand, little fines, dry					
3				1						
4				1.5						
5	4-8'	4/3'	NA	1	4.0-4.5': Brown, fine sand, some coarse gravel					
6				1.5	4.5-5.0': Brown, coarse sand, some coarse gravel and some fines					
7				-						
8				4.9	5.0-7.0': Medium brown sand, some small gravel, some coarse sand					
9	8-12'	0.5/0.2'	NA	1.4	7.0-8.0': Medium brown sand and coarse gravel					
10				0.8	8.0-8.5': Brown fine sand and medium sand, trace fine gravel					
11				2.7	Boring Refusal at 8.5' bgs. Soil Sample VTX-01 Collected at 10:10 from a depth of 7-7.5 bgs					
12										
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14										
15										
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23										
24										
25										
26										
27										
28										
DESCRIPTION OF SOIL CONSTITUENTS				SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS		
%	Descriptor			Density	Blows (N)	Consistency	Blows (N)			
0 - 5 %	Trace			Very Loose	0 - 4	Very Soft	<2	Screen		
5 - 15%	Little			Loose	4 - 10	Soft	2 - 4	Riser		
15 - 30%	Some			Medium Dense	10 - 30	Medium Stiff	4 - 8	Concrete		
30 - 50%	Modifier			Dense	30 - 50	Stiff	8 - 15	Bentonite		
>50%	In CAPs			Very Dense	>50	Very Stiff	15 - 30	Native Sand		
Note(s):						Hard	>30	Grout		
GROUNDWATER MONITORING WELL DATA						WELL MATERIALS USED				
DEPTH (FT.): NA		SCREEN INTERVAL: NA		BACKFILL OVER SEAL: NA		SAND: NA		SAND SIZE: Sand Size #0		
DIA. (IN.): NA		LENGTH OF RISER: NA		SURFACE SEAL: NA		BENTONITE: NA				
MATERIAL: NA		DEPTH/TYPE PACK: NA		ROADBOX DESC.: NA		CONCRETE: NA				
SLOT SIZE: NA		DEPTH/TYPE SEAL: NA								

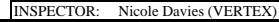
SOIL BORING / MONITORING WELL CONSTRUCTION LOG										
		PROJECT: 28 Putnam Ave				PROJECT NO.: 29484		BORING NO.: VTX-02		
		LOCATION: 28 Putnam Ave, Brooklyn NY				DRILLER: Hawk Drilling		WELL:		
		Date Start: 7/9/2014				Date Finish: 7/9/2014		INSPECTOR: Nicole Davies (VERTEX)		
		SAMPLER		CASING		CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data
TYPE: Geoprobe-Dingo						RISER ELEV.:		Datum:		
SIZE (ID): 2"						DATE:				
HAMMER (LB.): N/A						TIME:		Elevation (ft):		
FALL (IN.): N/A						DEPTH (ft):		Not Encountered		
SAMPLE INFORMATION					SOIL DESCRIPTION			WELL CONST		WELL DETAILS
DEPTH / ELEV	Interval	PEN / REC	BLOWS/6"	PID (ppm)						
1	0-4'	4/3.5'	NA	0	0.0-0.5': Concrete					Flush Mount Concrete
				0						
2				0						
				0						
3				0	0.5-2.0': Brown, fine sand, some fines					
				0						
				0						
				0						
4				0.5	2.0-4.0': Light brown, fine sand, trace large gravel					
				0.5						
5				0.9	4.0-5.0': Light brown, medium sands					
6	4-8'	4/3.5'	NA	0.2	5.0-6.0': Light brown, medium sands					
7				0.2	6.0-7.0': Brown, coarse sand					
8				0.2	7.0-7.5': Dark brown gravel, some fines					
9				0.2	7.5-9.0': Coarse sand, some fine gravel, some coarse gravel					
				0.2						
10	8-12'	1/.75'	NA		Boring Refusal at 9.0' bgs. Soil Sample VTX-02 Collected at 10:30 from a depth of 5-5.5' bgs					
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
DESCRIPTION OF SOIL CONSTITUENTS					SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS	
%	Descriptor			Density	Blows (N)	Consistency	Blows (N)	 <div>Screen</div> <div>Riser</div> <div>Concrete</div> <div>Bentonite</div> <div>Native Sand</div> <div>Grout</div>		
0 - 5 %	Trace			Very Loose	0 - 4	Very Soft	<2			
5 - 15%	Little			Loose	4 - 10	Soft	2 - 4			
15 - 30%	Some			Medium Dense	10 - 30	Medium Stiff	4 - 8			
30 - 50%	Modifier			Dense	30 - 50	Stiff	8 - 15			
>50%	In CAPs			Very Dense	>50	Very Stiff	15 - 30			
Note(s):										
GROUNDWATER MONITORING WELL DATA							WELL MATERIALS USED			
DEPTH (FT.):	NA	SCREEN INTERVAL:	NA	BACKFILL OVER SEAL:	NA	SAND:	SAND SIZE:		Sand Size #0	
DIA. (IN.):	NA	LENGTH OF RISER:	NA	SURFACE SEAL:	NA	BENTONITE:				
MATERIAL:	NA	DEPTH/TYPE PACK:	NA	ROADBOX DESC.:	NA	CONCRETE:				
SLOT SIZE:	NA	DEPTH/TYPE SEAL:	NA							

SOIL BORING / MONITORING WELL CONSTRUCTION LOG											
		PROJECT: 28 Putnam Ave				PROJECT NO.: 29484		BORING NO.: VTX-03			
		LOCATION: 28 Putnam Ave, Brooklyn NY				DRILLER: Hawk Drilling		WELL:			
		Date Start: 7/9/2014				Date Finish: 7/9/2014		INSPECTOR: Nicole Davies (VERTEX)			
SAMPLER		CASING			CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data		
TYPE Geoprobe-Dingo							RISER ELEV.:		Datum:		
SIZE (ID) 2"							DATE:				
HAMMER (LB.) N/A							TIME:		Elevation (ft):		
FALL (IN.) N/A							DEPTH (ft):		Not Encountered		
SAMPLE INFORMATION					SOIL DESCRIPTION			WELL CONST		WELL DETAILS	
DEPTH / ELEV	Interval	PEN / REC	BLOWS/6"	PID (ppm)							
1	0-4'	4/3.5'	NA	0	0.0-0.5': Concrete					Flush Mount Concrete	
				0							
2				0							
				0							
3				0	0.5-1.0': Fine, brown sand and fines, damp						
				0							
				0							
				0							
4				0	1.0-4.0': Brown, fine sand, trace fine gravel, dry						
				0							
				0							
				0							
5				0	4.0-5.0': Light brown, medium sands, little fine gravel, dry						
				0							
				0							
				0							
6	4-8'	4/3.5'	NA	0	5.0-7.0': Light brown, medium sand, little fine gravel, dry						
				0							
				0							
				0							
7				0	7.0-8.0': Brown, coarse sand and coarse gravel						
				0							
				0							
				0							
8				0	8.0-9.0': Brown, coarse sand, trace gravel, mica						
				0							
				0							
				0							
9				0	9.0-10.0': Coarse gravel and medium sand, mica						
				0							
				0							
				0							
10	8-12'	2/1.5'	NA	0	Boring Refusal at 10.0' bgs. Soil Sample VTX-03 Collected at 11:05 from a depth of 0-0.5' bgs						
				0							
				0							
				0							
11											
12											
13											
14											
15											
16											
17											
18											
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20											
21											
22											
23											
24											
25											
26											
27											
28											
DESCRIPTION OF SOIL CONSTITUENTS					SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS		
%	Descriptor			Density	Blows (N)	Consistency	Blows (N)				
0 - 5 %	Trace			Very Loose	0 - 4	Very Soft	<2				
5 - 15%	Little			Loose	4 - 10	Soft	2 - 4				
15 - 30%	Some			Medium Dense	10 - 30	Medium Stiff	4 - 8				
30 - 50%	Modifier			Dense	30 - 50	Stiff	8 - 15				
>50%	In CAPs			Very Dense	>50	Very Stiff	15 - 30				
Note(s):						Hard	>30				
GROUNDWATER MONITORING WELL DATA						WELL MATERIALS USED					
DEPTH (FT.):	NA	SCREEN INTERVAL:	NA	BACKFILL OVER SEAL:	NA	SAND:		SAND SIZE:	Sand Size #0		
DIA. (IN.):	NA	LENGTH OF RISER:	NA	SURFACE SEAL:	NA	BENTONITE:					
MATERIAL:	NA	DEPTH/TYPE PACK:	NA	ROADBOX DESC.:	NA	CONCRETE:					
SLOT SIZE:	NA	DEPTH/TYPE SEAL:	NA								


SOIL BORING / MONITORING WELL CONSTRUCTION LOG											
		PROJECT: 28 Putnam Ave				PROJECT NO.: 29484		BORING NO.: VTX-04			
		LOCATION: 28 Putnam Ave, Brooklyn NY				DRILLER: Hawk Drilling		WELL:			
		Date Start: 7/9/2014				Date Finish: 7/9/2014		INSPECTOR: Nicole Davies (VERTEX)			
		SAMPLER		CASING		CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data	
TYPE: Geoprobe-Dingo						RISER ELEV.:		Datum:			
SIZE (ID): 2"						DATE:					
HAMMER (LB.): N/A						TIME:		Elevation (ft):			
FALL (IN.): N/A						DEPTH (ft):		Not Encountered			
SAMPLE INFORMATION					SOIL DESCRIPTION			WELL CONST		WELL DETAILS	
DEPTH / ELEV		Interval	PEN / REC	BLOWS/6"							PID (ppm)
1	0-4'	4/3.5'	NA	0	0.0-0.5': Concrete					Flush Mount Concrete	
2				0	0.5-1.0': Fine brown sand, trace fines, damp						
3				0	1.0-1.5': Brown, fine sand, trace fines, trace large gravel						
4				0	1.5-3.5': Brown, medium sand, trace coarse sand, dry						
5	4-6.5'	2.5/2'	NA	0	3.5-5.0': Brown, medium sand, some fine gravel, trace fines						
6				0	5.0-6.5': Medium brown sand and coarse gravel						
7				0	Boring Refusal at 6.5' bgs. Soil Sample VTX-04 Collected at 11:35 from a depth of 0-0.5' bgs						
8				0							
9											
10											
11											
12											
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15											
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19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
DESCRIPTION OF SOIL CONSTITUENTS					SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS		
% Descriptor		Density		Blows (N)		Consistency		Blows (N)		 Screen Riser Concrete Bentonite Native Sand Grout	
0 - 5 % Trace		Very Loose		0 - 4		Very Soft		<2			
5 - 15% Little		Loose		4 - 10		Soft		2 - 4			
15 - 30% Some		Medium Dense		10 - 30		Medium Stiff		4 - 8			
30 - 50% Modifier		Dense		30 - 50		Stiff		8 - 15			
>50% In CAPs		Very Dense		>50		Very Stiff		15 - 30			
Note(s):						Hard		>30			
GROUNDWATER MONITORING WELL DATA						WELL MATERIALS USED					
DEPTH (FT.): NA		SCREEN INTERVAL: NA		BACKFILL OVER SEAL: NA		SAND: NA		SAND SIZE: Sand Size #0			
DIA. (IN.): NA		LENGTH OF RISER: NA		SURFACE SEAL: NA		BENTONITE: NA					
MATERIAL: NA		DEPTH/TYPE PACK: NA		ROADBOX DESC.: NA		CONCRETE:					
SLOT SIZE: NA		DEPTH/TYPE SEAL: NA									


SOIL BORING / MONITORING WELL										
CONSTRUCTION LOG										
		PROJECT: 28 Putnam Ave				PROJECT NO.: 29484		BORING NO.: VTX-05		
		LOCATION: 28 Putnam Ave, Brooklyn NY				DRILLER: Hawk Drilling		WELL:		
		Date Start: 7/9/2014				Date Finish: 7/9/2014		INSPECTOR: Nicole Davies (VERTEX)		
		SAMPLER		CASING		CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data
TYPE Geoprobe-Dingo						RISER ELEV.:		Datum:		
SIZE (ID) 2"						DATE:				
HAMMER (LB.) N/A						TIME:		Elevation (ft):		
FALL (IN.) N/A						DEPTH (ft):		Not Encountered		
SAMPLE INFORMATION					SOIL DESCRIPTION			WELL CONST		WELL DETAILS
DEPTH / ELEV	Interval	PEN / REC	BLOWS/6"	PID (ppm)						
1	0-4'	3.5/3'	NA	0	0.0-0.5': Concrete				Flush Mount Concrete	
				0						
2				0						0.5-3.0': Brown, fine sand, some coarse gravel, some fine gravel
				0						
3		0	3.0-3.5': Medium sand, some coarse gravel							
	0									
4			0							
5					Boring Refusal at 3.5' bgs. Soil Sample VTX-05 Collected at 12:05 from a depth of 0-0.5' bgs					
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27										
28										
DESCRIPTION OF SOIL CONSTITUENTS					SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS	
%		Descriptor			Density	Blows (N)	Consistency	Blows (N)		
0 - 5 %		Trace			Very Loose	0 - 4	Very Soft	<2	Screen	
5 - 15%		Little			Loose	4 - 10	Soft	2 - 4	Riser	
15 - 30%		Some			Medium Dense	10 - 30	Medium Stiff	4 - 8	Concrete	
30 - 50%		Modifier			Dense	30 - 50	Stiff	8 - 15	Bentonite	
>50%		In CAPs			Very Dense	>50	Very Stiff	15 - 30	Native Sand	
Note(s):							Hard	>30	Grout	
GROUNDWATER MONITORING WELL DATA							WELL MATERIALS USED			
DEPTH (FT.): NA		SCREEN INTERVAL: NA		BACKFILL OVER SEAL: NA		SAND: NA		SAND SIZE: Sand Size #0		
DIA. (IN.): NA		LENGTH OF RISER: NA		SURFACE SEAL: NA		BENTONITE: NA				
MATERIAL: NA		DEPTH/TYPE PACK: NA		ROADBOX DESC.: NA		CONCRETE: NA				
SLOT SIZE: NA		DEPTH/TYPE SEAL: NA								

CONSTRUCTION LOG



GROUNDWATER MONITORING WELL DATA				WELL MATERIALS USED	
DEPTH (FT.):	NA	SCREEN INTERVAL:	NA	BACKFILL OVER SEAL:	SAND: Sand Size #0
DIA. (IN.):	NA	LENGTH OF RISER:	NA	SURFACE SEAL:	BENTONITE:
MATERIAL:	NA	DEPTH/TYPE PACK:	NA	ROADBOX DESC.:	CONCRETE:
SLOT SIZE:	NA	DEPTH/TYPE SEAL:	NA		

SOIL BORING / MONITORING WELL CONSTRUCTION LOG												
		PROJECT: 28 Putnam Ave				PROJECT NO.: 29484		BORING NO.: VTX-07				
		LOCATION: 28 Putnam Ave, Brooklyn NY				DRILLER: Hawk Drilling		WELL:				
		Date Start: 7/9/2014				Date Finish: 7/9/2014		INSPECTOR: Nicole Davies (VERTEX)				
SAMPLER		CASING		CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data				
TYPE Jack Hammer probe						RISER ELEV.:		Datum:				
SIZE (ID) 1"						DATE:						
HAMMER (LB.) N/A						TIME:		Elevation (ft):				
FALL (IN.) N/A						DEPTH (ft):		Not Encountered				
SAMPLE INFORMATION					SOIL DESCRIPTION				WELL CONST		WELL DETAILS	
DEPTH / ELEV	Interval	PEN / REC	BLOWS/6"	PID (ppm)								Flush Mount Concrete
1	0-4'	4/3.5'	NA	0.7	0.0-0.5': Concrete, black sand with odor of mothballs, damp							
				0								
2				0	0.5-3.0': Fine gravel and fine sand							
				0								
3				0	3.0-4.0': Brown, fine sand, little fines							
				0								
4				0	4.0-5.0': Brown and white sand, little fine gravel							
				0								
5	4-6'	2/1.5'	NA	0	5.0-6.0': Brown, fine sand and trace fine gravel							
				0	Boring Refusal at 6.0' bgs. Soil Sample VTX-07 Collected at 13:05 from a depth of 0-0.5' bgs							
6												
7												
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9												
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17												
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19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
DESCRIPTION OF SOIL CONSTITUENTS					SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS			
%	Descriptor		Density	Blows (N)	Consistency	Blows (N)			Screen			
0 - 5 %	Trace		Very Loose	0 - 4	Very Soft	<2			Riser			
5 - 15%	Little		Loose	4 - 10	Soft	2 - 4			Concrete			
15 - 30%	Some		Medium Dense	10 - 30	Medium Stiff	4 - 8			Bentonite			
30 - 50%	Modifier		Dense	30 - 50	Stiff	8 - 15			Native			
>50%	In CAPs		Very Dense	>50	Very Stiff	15 - 30			Sand			
Note(s):					Hard	>30			Grout			
GROUNDWATER MONITORING WELL DATA							WELL MATERIALS USED					
DEPTH (FT.):	NA	SCREEN INTERVAL:	NA	BACKFILL OVER SEAL:	SAND:	SAND SIZE: Sand Size #0						
DIA. (IN.):	NA	LENGTH OF RISER:	NA	SURFACE SEAL:	BENTONITE:							
MATERIAL:	NA	DEPTH/TYPE PACK:	NA	ROADBOX DESC.:	CONCRETE:							
SLOT SIZE:	NA	DEPTH/TYPE SEAL:	NA									

SOIL BORING / MONITORING WELL CONSTRUCTION LOG										
	PROJECT: 28 Putnam Ave					PROJECT NO.: 29484		BORING NO.: VTX-08		
	LOCATION: 28 Putnam Ave, Brooklyn NY					DRILLER: Hawk Drilling		WELL:		
	Date Start: 7/9/2014 Date Finish: 7/9/2014					INSPECTOR: Nicole Davies (VERTEX)				
SAMPLER		CASING			CORE	GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data		
TYPE	Geoprobe-Dingo						RISER ELEV.:	Datum:		
SIZE (ID)	2"						DATE:			
HAMMER (LB.)	N/A						TIME:	Elevation (ft):		
FALL (IN.)	N/A						DEPTH (ft):	Not Encountered		
SAMPLE INFORMATION					SOIL DESCRIPTION			WELL CONST		WELL DETAILS
DEPTH / ELEV	Interval	PEN / REC	BLOWS/6"	PID (ppm)						
1	0-4'	4/3.5'	NA	7.8	0.0-0.5': Concrete, brown fine sand					Flush Mount Concrete
2				0.8	0.5-3.0': Brown, fine sand, some fines					
				2.2						
				2.5	3.0-3.5': Brown, fine sand, little coarse gravel					
3				3.7						
4	4-8'	4/3.5'	NA	1.3	3.5-6.0': Light brown, medium sand, some fine gravel					
5				0.8						
6				4.3	6.0-8.0': Light brown, medium sand, some coarse gravel					
7				2.5	Boring Refusal at 8.0' bgs. Soil Sample VTX-08 (0-0.5) Collected at 13:30.					
8				2.3	Soil Sample VTX-08 (7.5-8) Collected at 13:40					
9				1.1						
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
DESCRIPTION OF SOIL CONSTITUENTS				SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS		
%	Descriptor			Density	Blows (N)	Consistency	Blows (N)	 <div>Screen Riser Concrete Bentonite Native Sand Grout</div>		
0 - 5 %	Trace			Very Loose	0 - 4	Very Soft	<2			
5 - 15%	Little			Loose	4 - 10	Soft	2 - 4			
15 - 30%	Some			Medium Dense	10 - 30	Medium Stiff	4 - 8			
30 - 50%	Modifier			Dense	30 - 50	Stiff	8 - 15			
>50%	In CAPs			Very Dense	>50	Very Stiff	15 - 30			
Note(s):						Hard		>30		
GROUNDWATER MONITORING WELL DATA						WELL MATERIALS USED				
DEPTH (FT.):	NA	SCREEN INTERVAL:	NA	BACKFILL OVER SEAL:	NA	SAND:	SAND SIZE: Sand Size #0			
DIA. (IN.):	NA	LENGTH OF RISER:	NA	SURFACE SEAL:	NA	BENTONITE:				
MATERIAL:	NA	DEPTH/TYPE PACK:	NA	ROADBOX DESC.:	NA	CONCRETE:				
SLOT SIZE:	NA	DEPTH/TYPE SEAL:	NA							

SOIL BORING / MONITORING WELL										
CONSTRUCTION LOG										
		PROJECT: 28 Putnam Ave				PROJECT NO.: 29484		BORING NO.: TW-2		
		LOCATION: 28 Putnam Ave, Brooklyn NY				DRILLER: Hawk Drilling		WELL:		
		Date Start: 8/7/2014				Date Finish: 8/7/2014		INSPECTOR: Nicole Davies (VERTEX)		
SAMPLER		CASING			CORE		GROUNDWATER DEPTH MEASUREMENTS		GS Elevation Data	
TYPE	AMS Powert Probe- Direct Push				RISER ELEV.:				Datum:	
SIZE (ID)	2"				DATE:					
HAMMER (LB.)	N/A				TIME:				Elevation (ft):	
FALL (IN.)	N/A				DEPTH (ft):		Not Encountered			
SAMPLE INFORMATION					SOIL DESCRIPTION			WELL CONST		WELL DETAILS
DEPTH / ELEV	Interval	PEN / REC	BLOWS/6"	PID (ppm)						Flush Mount Concrete
1	0-4'				Direct push, no recovery, depth of 20 feet bgs					
2										
3										
4										
5	4-8'									
6										
7										
8										
9	8-12'									
10										
11										
12										
13	12'-16'									
14										
15										
16										
17	16'-20'									
18										
19										
20										
					Boring terminated at 20 feet bgs due to refusal					
21										
22										
23										
24										
25										
26										
27										
28										
DESCRIPTION OF SOIL CONSTITUENTS				SAND AND GRAVEL (GRANULAR SOILS)		CLAY (COHESIVE SOILS)		WELL CONSTRUCTION DETAILS		
%	Descriptor			Density	Blows (N)	Consistency	Blows (N)			Screen Riser Concrete Bentonite Native Sand Grout
0 - 5 %	Trace			Very Loose	0 - 4	Very Soft	<2			
5 - 15%	Little			Loose	4 - 10	Soft	2 - 4			
15 - 30%	Some			Medium Dense	10 - 30	Medium Stiff	4 - 8			
30 - 50%	Modifier			Dense	30 - 50	Stiff	8 - 15			
>50%	In CAPs			Very Dense	>50	Very Stiff	15 - 30			
Note(s):						Hard		>30		
GROUNDWATER MONITORING WELL DATA						WELL MATERIALS USED				
DEPTH (FT.):	NA	SCREEN INTERVAL:	NA	BACKFILL OVER SEAL:		SAND:	SAND SIZE:		Sand Size #0	
DIA. (IN.):	NA	LENGTH OF RISER:	NA	SURFACE SEAL:	NA	BENTONITE:				
MATERIAL:	NA	DEPTH/TYPE PACK:	NA	ROADBOX DESC.:	NA	CONCRETE:				
SLOT SIZE:	NA	DEPTH/TYPE SEAL:	NA							

APPENDIX C

Monitoring Well Construction Logs



HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:

2171 JERICHO TURNPIKE, SUITE 345
COMMACK, NEW YORK 11725

PHONE: (631) 462-5866 FAX: (631) 462-5877

NYC OFFICE:

1111 FULTON STREET, SECOND FLOOR
BROOKLYN, NEW YORK 11238

WELL CONSTRUCTION LOG

Job No: 160116 Date: 6-6-2016 Page: 1 OF 1

Location: 28 PUTNAM AVENUE, BROOKLYN, NY

Well Number: MW-1 Screen Size: 0.010"

Drilling Method: DIRECT PUSH Screen Interval: 15.00'

Total Depth: 69' Diameter: 1"

Depth to Water: 60.34' Riser Length: 54.00'

Manhole Size: 5" Sand Size: #2

Depth Below Grade (ft.)	Sample Interval (ft.)	Well Construction	Description
5			
10			5" Manhole Cover
15			0' - 53.00' - Native Soil
20			53.00' - 54.00' - Bentonite Seal
25			54.00' - 69.00' - #2 Sand
30			0' - 54.00' - Riser
35			54.00' - 69.00' - Screen
40			
45			
50			
55			
60			
65			
70			
75			
80			
85			
90			

APPENDIX D

Groundwater Purge Logs

Hydro Tech Environmental, Corp.



Monitoring Well Sampling Log Sheet

Job No.: 160116 Well No.: MW-1 Date: 6/8/16

Well Depth: 69 Screen Length: 15' Well Diameter: 1" Casing Type: PVC

Sampling Device: Hand Tubing Type: _____ Initial DTP: n/a Initial DTW: 60.34

Well Volume: _____ Total Volume Purged: _____

Sampling Personnel: Jose - Adriana

Low Flow Sampling required ? Yes: ~~X~~ No:

[illegible]

APPENDIX E

Soil Vapor Sampling Logs

HTE Job # 160116.
28 Putnam Avenue, Brooklyn, NY

AMBIENT AIR/SOIL VAPOR SAMPLING LOG SHEET

Weather Conditions during past 24-48 hrs:

Building Ventilation Conditions:

Source(s) of VOCs in Area:

[illegible]

28 Putnam Ave, Brooklyn

Weather Conditions during past 24-48 hrs:

Building Ventilation Conditions:

Source(s) of VOCs in Area:

Clear Skies, Sunny 60°F
RE

AIR SAMPLING LOG

[illegible]

APPENDIX F

Laboratory Reports – Phoenix



Friday, October 20, 2023

Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Project ID: 28 PUTNAM AVENUE
SDG ID: GCP23152
Sample ID#s: CP23152 - CP23156

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

October 20, 2023

SDG I.D.: GCP23152

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Sample Id Cross Reference

October 20, 2023

SDG I.D.: GCP23152

Project ID: 28 PUTNAM AVENUE

Client Id	Lab Id	Matrix
SB1 (0-2 bcg)	CP23152	SOIL
SB2 (0-2 bcg)	CP23153	SOIL
SOIL DUPLICATE	CP23154	SOIL
TB HL	CP23155	SOIL
TB LL	CP23156	SOIL



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 20, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Sample Information

Matrix: SOIL
Location Code: BRUSSEE
Rush Request: Standard
P.O.#:

Custody Information

Collected by: BG
Received by: SW
Analyzed by: see "By" below

Date

10/10/23
10/11/23

Time

10:00
16:09

Laboratory Data

SDG ID: GCP23152
Phoenix ID: CP23152

Project ID: 28 PUTNAM AVENUE
Client ID: SB1 (0-2 bcg)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.32	0.32		mg/Kg	1	10/18/23	TH	SW6010D
Aluminum	7600	32		mg/Kg	10	10/18/23	TH	SW6010D
Arsenic	2.14	0.65		mg/Kg	1	10/18/23	TH	SW6010D
Barium	51.9	0.6		mg/Kg	1	10/18/23	TH	SW6010D
Beryllium	0.37	0.26		mg/Kg	1	10/18/23	TH	SW6010D
Calcium	7390	3.2		mg/Kg	1	10/18/23	TH	SW6010D
Cadmium	1.03	0.32		mg/Kg	1	10/18/23	TH	SW6010D
Cobalt	12.5	0.32		mg/Kg	1	10/18/23	TH	SW6010D
Chromium	21.6	0.32		mg/Kg	1	10/18/23	TH	SW6010D
Copper	29.1	0.6		mg/kg	1	10/18/23	TH	SW6010D
Iron	18800	32		mg/Kg	10	10/18/23	TH	SW6010D
Mercury	0.07	0.03		mg/Kg	2	10/13/23	AL1	SW7471B
Potassium	1300	65		mg/Kg	10	10/18/23	TH	SW6010D
Magnesium	6640	32		mg/Kg	10	10/18/23	TH	SW6010D
Manganese	448	3.2		mg/Kg	10	10/18/23	TH	SW6010D
Sodium	475	6		mg/Kg	1	10/18/23	TH	SW6010D
Nickel	103	0.32		mg/Kg	1	10/18/23	TH	SW6010D
Lead	36.4	0.6		mg/Kg	1	10/18/23	TH	SW6010D
Antimony	< 3.2	3.2		mg/Kg	1	10/18/23	TH	SW6010D
Selenium	< 1.3	1.3		mg/Kg	1	10/18/23	TH	SW6010D
Thallium	< 1.3	1.3		mg/Kg	1	10/18/23	TH	SW6010D
Vanadium	28.7	0.32		mg/Kg	1	10/18/23	TH	SW6010D
Zinc	62.9	0.6		mg/Kg	1	10/18/23	TH	SW6010D
Percent Solid	91			%		10/11/23	CV	SW846-%Solid
Field Extraction	Completed					10/10/23		SW5035A
Mercury Digestion	Completed					10/13/23	ZT/AL	SW7471B
Soil Extraction for PCB	Completed					10/13/23	H/F	SW3546

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for Pesticides	Completed					10/13/23	H/F	SW3546
Soil Extraction for SVOA	Completed					10/12/23	J/F	SW3546
Total Metals Digest	Completed					10/12/23	L/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	72	72	ug/Kg	2	10/16/23	SC	SW8082A
PCB-1221	ND	72	72	ug/Kg	2	10/16/23	SC	SW8082A
PCB-1232	ND	72	72	ug/Kg	2	10/16/23	SC	SW8082A
PCB-1242	ND	72	72	ug/Kg	2	10/16/23	SC	SW8082A
PCB-1248	ND	72	72	ug/Kg	2	10/16/23	SC	SW8082A
PCB-1254	ND	72	72	ug/Kg	2	10/16/23	SC	SW8082A
PCB-1260	ND	72	72	ug/Kg	2	10/16/23	SC	SW8082A
PCB-1262	ND	72	72	ug/Kg	2	10/16/23	SC	SW8082A
PCB-1268	ND	72	72	ug/Kg	2	10/16/23	SC	SW8082A

QA/QC Surrogates

% DCBP	48			%	2	10/16/23	SC	30 - 150 %
% DCBP (Confirmation)	44			%	2	10/16/23	SC	30 - 150 %
% TCMX	43			%	2	10/16/23	SC	30 - 150 %
% TCMX (Confirmation)	41			%	2	10/16/23	SC	30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	7.2		ug/Kg	10	10/16/23	AW	SW8081B
4,4' -DDE	23	11		ug/Kg	10	10/16/23	AW	SW8081B
4,4' -DDT	13	11		ug/Kg	10	10/16/23	AW	SW8081B
a-BHC	ND	7.2		ug/Kg	10	10/16/23	AW	SW8081B
a-Chlordane	140	18		ug/Kg	10	10/16/23	AW	SW8081B
Aldrin	ND	7.2		ug/Kg	10	10/16/23	AW	SW8081B
b-BHC	ND	36		ug/Kg	10	10/16/23	AW	SW8081B
Chlordane	640	180		ug/Kg	10	10/16/23	AW	SW8081B
d-BHC	ND	36		ug/Kg	10	10/16/23	AW	SW8081B
Dieldrin	17	7.2		ug/Kg	10	10/16/23	AW	SW8081B
Endosulfan I	ND	36		ug/Kg	10	10/16/23	AW	SW8081B
Endosulfan II	ND	36		ug/Kg	10	10/16/23	AW	SW8081B
Endosulfan sulfate	ND	36		ug/Kg	10	10/16/23	AW	SW8081B
Endrin	ND	18		ug/Kg	10	10/16/23	AW	SW8081B
Endrin aldehyde	ND	36		ug/Kg	10	10/16/23	AW	SW8081B
Endrin ketone	ND	36		ug/Kg	10	10/16/23	AW	SW8081B
g-BHC	ND	7.2		ug/Kg	10	10/16/23	AW	SW8081B
g-Chlordane	84	18		ug/Kg	10	10/16/23	AW	SW8081B
Heptachlor	ND	36		ug/Kg	10	10/16/23	AW	SW8081B
Heptachlor epoxide	ND	36		ug/Kg	10	10/16/23	AW	SW8081B
Methoxychlor	ND	180		ug/Kg	10	10/16/23	AW	SW8081B
Toxaphene	ND	720		ug/Kg	10	10/16/23	AW	SW8081B

QA/QC Surrogates

% DCBP	37			%	10	10/16/23	AW	30 - 150 %
% DCBP (Confirmation)	36			%	10	10/16/23	AW	30 - 150 %
% TCMX	39			%	10	10/16/23	AW	30 - 150 %
% TCMX (Confirmation)	39			%	10	10/16/23	AW	30 - 150 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Volatiles								
1,1,1,2-Tetrachloroethane	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,1,1-Trichloroethane	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,1,2-Trichloroethane	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,1-Dichloroethane	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,1-Dichloroethene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
1,1-Dichloropropene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,3-Trichloropropane	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dibromoethane	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dichloroethane	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dichloropropane	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
1,3-Dichloropropane	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
2,2-Dichloropropane	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
2-Chlorotoluene	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
2-Hexanone	ND	32	6.3	ug/Kg	1	10/13/23	JLI	SW8260D
2-Isopropyltoluene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
4-Chlorotoluene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
4-Methyl-2-pentanone	ND	32	6.3	ug/Kg	1	10/13/23	JLI	SW8260D
Acetone	23	JS 32	6.3	ug/Kg	1	10/13/23	JLI	SW8260D
Acrylonitrile	ND	13	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Benzene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
Bromobenzene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
Bromochloromethane	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
Bromodichloromethane	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Bromoform	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Bromomethane	ND	6.3	2.5	ug/Kg	1	10/13/23	JLI	SW8260D
Carbon Disulfide	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Carbon tetrachloride	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Chlorobenzene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
Chloroethane	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
Chloroform	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
Chloromethane	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
cis-1,2-Dichloroethene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
cis-1,3-Dichloropropene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
Dibromochloromethane	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Dibromomethane	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Dichlorodifluoromethane	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
Ethylbenzene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
Hexachlorobutadiene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
Isopropylbenzene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Methyl Ethyl Ketone	ND	38	6.3	ug/Kg	1	10/13/23	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	13	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Methylene chloride	ND	6.3	6.3	ug/Kg	1	10/13/23	JLI	SW8260D
Naphthalene	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
n-Butylbenzene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
n-Propylbenzene	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
o-Xylene	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
p-Isopropyltoluene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
sec-Butylbenzene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
Styrene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
tert-Butylbenzene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
Tetrachloroethene	1.4	J 6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Tetrahydrofuran (THF)	ND	13	3.2	ug/Kg	1	10/13/23	JLI	SW8260D
Toluene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	13	3.2	ug/Kg	1	10/13/23	JLI	SW8260D
Trichloroethene	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
Trichlorofluoromethane	ND	6.3	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Trichlorotrifluoroethane	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
Vinyl chloride	ND	6.3	0.63	ug/Kg	1	10/13/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	10/13/23	JLI	70 - 130 %
% Bromofluorobenzene	88			%	1	10/13/23	JLI	70 - 130 %
% Dibromofluoromethane	96			%	1	10/13/23	JLI	70 - 130 %
% Toluene-d8	97			%	1	10/13/23	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	95		ug/kg	1	10/13/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	10/13/23	JLI	70 - 130 %
% Bromofluorobenzene	88			%	1	10/13/23	JLI	70 - 130 %
% Dibromofluoromethane	96			%	1	10/13/23	JLI	70 - 130 %
% Toluene-d8	97			%	1	10/13/23	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	25		ug/Kg	1	10/13/23	JLI	SW8260D
Acrolein	ND	6.3		ug/Kg	1	10/13/23	JLI	SW8260D
Acrylonitrile	ND	25		ug/Kg	1	10/13/23	JLI	SW8260D
Tert-butyl alcohol	ND	130		ug/Kg	1	10/13/23	JLI	SW8260D
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	10/13/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	10/13/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	260	100	ug/Kg	1	10/13/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	10/13/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	10/13/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	10/13/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	100	ug/Kg	1	10/13/23	KCA	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4,5-Trichlorophenol	ND	260	200	ug/Kg	1	10/13/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	180	120	ug/Kg	1	10/13/23	KCA	SW8270D
2,4-Dichlorophenol	ND	180	130	ug/Kg	1	10/13/23	KCA	SW8270D
2,4-Dimethylphenol	ND	260	91	ug/Kg	1	10/13/23	KCA	SW8270D
2,4-Dinitrophenol	ND	260	260	ug/Kg	1	10/13/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	10/13/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	180	120	ug/Kg	1	10/13/23	KCA	SW8270D
2-Chloronaphthalene	ND	260	100	ug/Kg	1	10/13/23	KCA	SW8270D
2-Chlorophenol	ND	260	100	ug/Kg	1	10/13/23	KCA	SW8270D
2-Methylnaphthalene	ND	260	110	ug/Kg	1	10/13/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	260	170	ug/Kg	1	10/13/23	KCA	SW8270D
2-Nitroaniline	ND	260	260	ug/Kg	1	10/13/23	KCA	SW8270D
2-Nitrophenol	ND	260	230	ug/Kg	1	10/13/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	260	140	ug/Kg	1	10/13/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	10/13/23	KCA	SW8270D
3-Nitroaniline	ND	370	730	ug/Kg	1	10/13/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	220	73	ug/Kg	1	10/13/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	1	10/13/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	1	10/13/23	KCA	SW8270D
4-Chloroaniline	ND	290	170	ug/Kg	1	10/13/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	260	120	ug/Kg	1	10/13/23	KCA	SW8270D
4-Nitroaniline	ND	370	120	ug/Kg	1	10/13/23	KCA	SW8270D
4-Nitrophenol	ND	370	170	ug/Kg	1	10/13/23	KCA	SW8270D
Acenaphthene	ND	260	110	ug/Kg	1	10/13/23	KCA	SW8270D
Acenaphthylene	ND	260	100	ug/Kg	1	10/13/23	KCA	SW8270D
Acetophenone	ND	260	110	ug/Kg	1	10/13/23	KCA	SW8270D
Aniline	ND	290	290	ug/Kg	1	10/13/23	KCA	SW8270D
Anthracene	ND	260	120	ug/Kg	1	10/13/23	KCA	SW8270D
Benz(a)anthracene	270	260	120	ug/Kg	1	10/13/23	KCA	SW8270D
Benzidine	ND	370	210	ug/Kg	1	10/13/23	KCA	SW8270D
Benzo(a)pyrene	280	180	120	ug/Kg	1	10/13/23	KCA	SW8270D
Benzo(b)fluoranthene	350	260	130	ug/Kg	1	10/13/23	KCA	SW8270D
Benzo(ghi)perylene	150	J 260	120	ug/Kg	1	10/13/23	KCA	SW8270D
Benzo(k)fluoranthene	120	J 260	120	ug/Kg	1	10/13/23	KCA	SW8270D
Benzoic acid	ND	1800	730	ug/Kg	1	10/13/23	KCA	SW8270D
Benzyl butyl phthalate	ND	260	94	ug/Kg	1	10/13/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	1	10/13/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	180	99	ug/Kg	1	10/13/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	110	ug/Kg	1	10/13/23	KCA	SW8270D
Carbazole	ND	180	150	ug/Kg	1	10/13/23	KCA	SW8270D
Chrysene	290	260	120	ug/Kg	1	10/13/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	180	120	ug/Kg	1	10/13/23	KCA	SW8270D
Dibenzofuran	ND	260	110	ug/Kg	1	10/13/23	KCA	SW8270D
Diethyl phthalate	ND	260	120	ug/Kg	1	10/13/23	KCA	SW8270D
Dimethylphthalate	ND	260	110	ug/Kg	1	10/13/23	KCA	SW8270D
Di-n-butylphthalate	ND	260	97	ug/Kg	1	10/13/23	KCA	SW8270D
Di-n-octylphthalate	ND	260	94	ug/Kg	1	10/13/23	KCA	SW8270D
Fluoranthene	360	260	120	ug/Kg	1	10/13/23	KCA	SW8270D
Fluorene	ND	260	120	ug/Kg	1	10/13/23	KCA	SW8270D

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	180	110	ug/Kg	1	10/13/23	KCA	SW8270D
Hexachlorobutadiene	ND	260	130	ug/Kg	1	10/13/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	10/13/23	KCA	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	10/13/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	160	J 260	120	ug/Kg	1	10/13/23	KCA	SW8270D
Isophorone	ND	180	100	ug/Kg	1	10/13/23	KCA	SW8270D
Naphthalene	ND	260	110	ug/Kg	1	10/13/23	KCA	SW8270D
Nitrobenzene	ND	180	130	ug/Kg	1	10/13/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	260	100	ug/Kg	1	10/13/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	10/13/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	10/13/23	KCA	SW8270D
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	10/13/23	KCA	SW8270D
Pentachlorophenol	ND	220	140	ug/Kg	1	10/13/23	KCA	SW8270D
Phenanthrene	330	260	100	ug/Kg	1	10/13/23	KCA	SW8270D
Phenol	ND	260	120	ug/Kg	1	10/13/23	KCA	SW8270D
Pyrene	330	260	130	ug/Kg	1	10/13/23	KCA	SW8270D
Pyridine	ND	260	90	ug/Kg	1	10/13/23	KCA	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	87			%	1	10/13/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	69			%	1	10/13/23	KCA	30 - 130 %
% 2-Fluorophenol	52			%	1	10/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	71			%	1	10/13/23	KCA	30 - 130 %
% Phenol-d5	63			%	1	10/13/23	KCA	30 - 130 %
% Terphenyl-d14	51			%	1	10/13/23	KCA	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

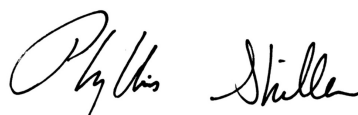
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

October 23, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 20, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Sample Information

Matrix: SOIL
Location Code: BRUSSEE
Rush Request: Standard
P.O.#:

Custody Information

Collected by: BG
Received by: SW
Analyzed by: see "By" below

Date

10/10/23
10/11/23

Time

10:05
16:09

Laboratory Data

SDG ID: GCP23152
Phoenix ID: CP23153

Project ID: 28 PUTNAM AVENUE
Client ID: SB2 (0-2 bcg)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39		mg/Kg	1	10/18/23	TH	SW6010D
Aluminum	6320	39		mg/Kg	10	10/18/23	TH	SW6010D
Arsenic	5.83	0.79		mg/Kg	1	10/18/23	TH	SW6010D
Barium	144	0.8		mg/Kg	1	10/18/23	TH	SW6010D
Beryllium	0.46	0.31		mg/Kg	1	10/18/23	TH	SW6010D
Calcium	3630	3.9		mg/Kg	1	10/18/23	TH	SW6010D
Cadmium	3.17	0.39		mg/Kg	1	10/18/23	TH	SW6010D
Cobalt	8.04	0.39		mg/Kg	1	10/18/23	TH	SW6010D
Chromium	22.2	0.39		mg/Kg	1	10/18/23	TH	SW6010D
Copper	159	7.9		mg/kg	10	10/18/23	TH	SW6010D
Iron	38700	39		mg/Kg	10	10/18/23	TH	SW6010D
Mercury	0.24	0.03		mg/Kg	2	10/13/23	AL1	SW7471B
Potassium	787	8		mg/Kg	1	10/18/23	TH	SW6010D
Magnesium	2670	39		mg/Kg	10	10/18/23	TH	SW6010D
Manganese	749	3.9		mg/Kg	10	10/18/23	TH	SW6010D
Sodium	332	8		mg/Kg	1	10/18/23	TH	SW6010D
Nickel	43.6	0.39		mg/Kg	1	10/18/23	TH	SW6010D
Lead	2110	79		mg/Kg	100	10/20/23	TH	SW6010D
Antimony	< 3.9	3.9		mg/Kg	1	10/18/23	TH	SW6010D
Selenium	< 1.6	1.6		mg/Kg	1	10/18/23	TH	SW6010D
Thallium	< 1.6	1.6		mg/Kg	1	10/18/23	TH	SW6010D
Vanadium	31.2	0.39		mg/Kg	1	10/18/23	TH	SW6010D
Zinc	304	7.9		mg/Kg	10	10/18/23	TH	SW6010D
Percent Solid	87			%		10/11/23	CV	SW846-%Solid
Field Extraction	Completed					10/10/23		SW5035A
Mercury Digestion	Completed					10/13/23	ZT/AL	SW7471B
Soil Extraction for PCB	Completed					10/13/23	H/F	SW3546

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for Pesticides	Completed					10/13/23	H/F	SW3546
Soil Extraction for SVOA	Completed					10/12/23	J/F	SW3546
Total Metals Digest	Completed					10/12/23	L/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	75	75	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1221	ND	75	75	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1232	ND	75	75	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1242	ND	75	75	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1248	ND	75	75	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1254	ND	75	75	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1260	ND	75	75	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1262	ND	75	75	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1268	ND	75	75	ug/Kg	2	10/15/23	SC	SW8082A

QA/QC Surrogates

% DCBP	55			%	2	10/15/23	SC	30 - 150 %
% DCBP (Confirmation)	49			%	2	10/15/23	SC	30 - 150 %
% TCMX	53			%	2	10/15/23	SC	30 - 150 %
% TCMX (Confirmation)	49			%	2	10/15/23	SC	30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	2.2		ug/Kg	2	10/16/23	CN	SW8081B
4,4' -DDE	ND	2.2		ug/Kg	2	10/16/23	CN	SW8081B
4,4' -DDT	ND	2.2		ug/Kg	2	10/16/23	CN	SW8081B
a-BHC	ND	7.5		ug/Kg	2	10/16/23	CN	SW8081B
a-Chlordane	ND	3.7		ug/Kg	2	10/16/23	CN	SW8081B
Aldrin	ND	3.7		ug/Kg	2	10/16/23	CN	SW8081B
b-BHC	ND	7.5		ug/Kg	2	10/16/23	CN	SW8081B
Chlordane	ND	37		ug/Kg	2	10/16/23	CN	SW8081B
d-BHC	ND	7.5		ug/Kg	2	10/16/23	CN	SW8081B
Dieldrin	ND	3.7		ug/Kg	2	10/16/23	CN	SW8081B
Endosulfan I	ND	7.5		ug/Kg	2	10/16/23	CN	SW8081B
Endosulfan II	ND	7.5		ug/Kg	2	10/16/23	CN	SW8081B
Endosulfan sulfate	ND	7.5		ug/Kg	2	10/16/23	CN	SW8081B
Endrin	ND	7.5		ug/Kg	2	10/16/23	CN	SW8081B
Endrin aldehyde	ND	7.5		ug/Kg	2	10/16/23	CN	SW8081B
Endrin ketone	ND	7.5		ug/Kg	2	10/16/23	CN	SW8081B
g-BHC	ND	1.5		ug/Kg	2	10/16/23	CN	SW8081B
g-Chlordane	ND	3.7		ug/Kg	2	10/16/23	CN	SW8081B
Heptachlor	ND	7.5		ug/Kg	2	10/16/23	CN	SW8081B
Heptachlor epoxide	ND	7.5		ug/Kg	2	10/16/23	CN	SW8081B
Methoxychlor	ND	37		ug/Kg	2	10/16/23	CN	SW8081B
Toxaphene	ND	150		ug/Kg	2	10/16/23	CN	SW8081B

QA/QC Surrogates

% DCBP	60			%	2	10/16/23	CN	30 - 150 %
% DCBP (Confirmation)	57			%	2	10/16/23	CN	30 - 150 %
% TCMX	51			%	2	10/16/23	CN	30 - 150 %
% TCMX (Confirmation)	50			%	2	10/16/23	CN	30 - 150 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Volatiles								
1,1,1,2-Tetrachloroethane	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,1,1-Trichloroethane	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,1,2-Trichloroethane	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,1-Dichloroethane	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,1-Dichloroethene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
1,1-Dichloropropene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,3-Trichloropropane	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dibromoethane	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dichloroethane	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dichloropropane	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
1,3-Dichloropropane	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
2,2-Dichloropropane	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
2-Chlorotoluene	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
2-Hexanone	ND	32	6.4	ug/Kg	1	10/13/23	JLI	SW8260D
2-Isopropyltoluene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
4-Chlorotoluene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
4-Methyl-2-pentanone	ND	32	6.4	ug/Kg	1	10/13/23	JLI	SW8260D
Acetone	43	S 32	6.4	ug/Kg	1	10/13/23	JLI	SW8260D
Acrylonitrile	ND	13	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Benzene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
Bromobenzene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
Bromochloromethane	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
Bromodichloromethane	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Bromoform	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Bromomethane	ND	6.4	2.6	ug/Kg	1	10/13/23	JLI	SW8260D
Carbon Disulfide	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Carbon tetrachloride	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Chlorobenzene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
Chloroethane	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
Chloroform	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
Chloromethane	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
cis-1,2-Dichloroethene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
cis-1,3-Dichloropropene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
Dibromochloromethane	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Dibromomethane	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Dichlorodifluoromethane	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
Ethylbenzene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
Hexachlorobutadiene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
Isopropylbenzene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Methyl Ethyl Ketone	ND	38	6.4	ug/Kg	1	10/13/23	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	13	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Methylene chloride	ND	6.4	6.4	ug/Kg	1	10/13/23	JLI	SW8260D
Naphthalene	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
n-Butylbenzene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
n-Propylbenzene	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
o-Xylene	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
p-Isopropyltoluene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
sec-Butylbenzene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
Styrene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
tert-Butylbenzene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
Tetrachloroethene	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Tetrahydrofuran (THF)	6.6	J 13	3.2	ug/Kg	1	10/13/23	JLI	SW8260D
Toluene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	13	3.2	ug/Kg	1	10/13/23	JLI	SW8260D
Trichloroethene	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
Trichlorofluoromethane	ND	6.4	1.3	ug/Kg	1	10/13/23	JLI	SW8260D
Trichlorotrifluoroethane	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
Vinyl chloride	ND	6.4	0.64	ug/Kg	1	10/13/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	96			%	1	10/13/23	JLI	70 - 130 %
% Bromofluorobenzene	87			%	1	10/13/23	JLI	70 - 130 %
% Dibromofluoromethane	99			%	1	10/13/23	JLI	70 - 130 %
% Toluene-d8	97			%	1	10/13/23	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	96		ug/kg	1	10/13/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	96			%	1	10/13/23	JLI	70 - 130 %
% Bromofluorobenzene	87			%	1	10/13/23	JLI	70 - 130 %
% Dibromofluoromethane	99			%	1	10/13/23	JLI	70 - 130 %
% Toluene-d8	97			%	1	10/13/23	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	26		ug/Kg	1	10/13/23	JLI	SW8260D
Acrolein	ND	6.4		ug/Kg	1	10/13/23	JLI	SW8260D
Acrylonitrile	ND	26		ug/Kg	1	10/13/23	JLI	SW8260D
Tert-butyl alcohol	ND	130		ug/Kg	1	10/13/23	JLI	SW8260D
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	270	130	ug/Kg	1	10/13/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	10/13/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	10/13/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	270	120	ug/Kg	1	10/13/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	10/13/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	10/13/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	110	ug/Kg	1	10/13/23	KCA	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	10/13/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	10/13/23	KCA	SW8270D
2,4-Dichlorophenol	ND	190	130	ug/Kg	1	10/13/23	KCA	SW8270D
2,4-Dimethylphenol	ND	270	95	ug/Kg	1	10/13/23	KCA	SW8270D
2,4-Dinitrophenol	ND	270	270	ug/Kg	1	10/13/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	10/13/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	10/13/23	KCA	SW8270D
2-Chloronaphthalene	ND	270	110	ug/Kg	1	10/13/23	KCA	SW8270D
2-Chlorophenol	ND	270	110	ug/Kg	1	10/13/23	KCA	SW8270D
2-Methylnaphthalene	ND	270	110	ug/Kg	1	10/13/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	10/13/23	KCA	SW8270D
2-Nitroaniline	ND	270	270	ug/Kg	1	10/13/23	KCA	SW8270D
2-Nitrophenol	ND	270	240	ug/Kg	1	10/13/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	10/13/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	190	180	ug/Kg	1	10/13/23	KCA	SW8270D
3-Nitroaniline	ND	380	770	ug/Kg	1	10/13/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	230	77	ug/Kg	1	10/13/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	10/13/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	270	130	ug/Kg	1	10/13/23	KCA	SW8270D
4-Chloroaniline	ND	310	180	ug/Kg	1	10/13/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	10/13/23	KCA	SW8270D
4-Nitroaniline	ND	380	130	ug/Kg	1	10/13/23	KCA	SW8270D
4-Nitrophenol	ND	380	170	ug/Kg	1	10/13/23	KCA	SW8270D
Acenaphthene	ND	270	120	ug/Kg	1	10/13/23	KCA	SW8270D
Acenaphthylene	570	270	110	ug/Kg	1	10/13/23	KCA	SW8270D
Acetophenone	ND	270	120	ug/Kg	1	10/13/23	KCA	SW8270D
Aniline	ND	310	310	ug/Kg	1	10/13/23	KCA	SW8270D
Anthracene	440	270	130	ug/Kg	1	10/13/23	KCA	SW8270D
Benz(a)anthracene	1600	270	130	ug/Kg	1	10/13/23	KCA	SW8270D
Benzidine	ND	380	220	ug/Kg	1	10/13/23	KCA	SW8270D
Benzo(a)pyrene	1700	190	120	ug/Kg	1	10/13/23	KCA	SW8270D
Benzo(b)fluoranthene	2000	270	130	ug/Kg	1	10/13/23	KCA	SW8270D
Benzo(ghi)perylene	990	270	120	ug/Kg	1	10/13/23	KCA	SW8270D
Benzo(k)fluoranthene	770	270	130	ug/Kg	1	10/13/23	KCA	SW8270D
Benzoic acid	ND	1900	770	ug/Kg	1	10/13/23	KCA	SW8270D
Benzyl butyl phthalate	640	270	99	ug/Kg	1	10/13/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	10/13/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	190	100	ug/Kg	1	10/13/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	400	270	110	ug/Kg	1	10/13/23	KCA	SW8270D
Carbazole	ND	190	150	ug/Kg	1	10/13/23	KCA	SW8270D
Chrysene	1700	270	130	ug/Kg	1	10/13/23	KCA	SW8270D
Dibenz(a,h)anthracene	260	190	120	ug/Kg	1	10/13/23	KCA	SW8270D
Dibenzofuran	ND	270	110	ug/Kg	1	10/13/23	KCA	SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	10/13/23	KCA	SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	10/13/23	KCA	SW8270D
Di-n-butylphthalate	380	270	100	ug/Kg	1	10/13/23	KCA	SW8270D
Di-n-octylphthalate	ND	270	99	ug/Kg	1	10/13/23	KCA	SW8270D
Fluoranthene	1600	270	120	ug/Kg	1	10/13/23	KCA	SW8270D
Fluorene	ND	270	130	ug/Kg	1	10/13/23	KCA	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	190	110	ug/Kg	1	10/13/23	KCA	SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	10/13/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	10/13/23	KCA	SW8270D
Hexachloroethane	ND	190	110	ug/Kg	1	10/13/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	1000	270	130	ug/Kg	1	10/13/23	KCA	SW8270D
Isophorone	ND	190	110	ug/Kg	1	10/13/23	KCA	SW8270D
Naphthalene	110	J 270	110	ug/Kg	1	10/13/23	KCA	SW8270D
Nitrobenzene	ND	190	130	ug/Kg	1	10/13/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	10/13/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	190	120	ug/Kg	1	10/13/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	10/13/23	KCA	SW8270D
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	10/13/23	KCA	SW8270D
Pentachlorophenol	ND	230	140	ug/Kg	1	10/13/23	KCA	SW8270D
Phenanthrene	750	270	110	ug/Kg	1	10/13/23	KCA	SW8270D
Phenol	ND	270	120	ug/Kg	1	10/13/23	KCA	SW8270D
Pyrene	1600	270	130	ug/Kg	1	10/13/23	KCA	SW8270D
Pyridine	ND	270	94	ug/Kg	1	10/13/23	KCA	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	80			%	1	10/13/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	62			%	1	10/13/23	KCA	30 - 130 %
% 2-Fluorophenol	48			%	1	10/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	70			%	1	10/13/23	KCA	30 - 130 %
% Phenol-d5	58			%	1	10/13/23	KCA	30 - 130 %
% Terphenyl-d14	54			%	1	10/13/23	KCA	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

October 23, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 20, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Sample Information

Matrix: SOIL
Location Code: BRUSSEE
Rush Request: Standard
P.O.#:

Custody Information

Collected by: BG
Received by: SW
Analyzed by: see "By" below

Date

10/10/23
10/11/23

Time

10:10
16:09

Laboratory Data

SDG ID: GCP23152
Phoenix ID: CP23154

Project ID: 28 PUTNAM AVENUE
Client ID: SOIL DUPLICATE

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35		mg/Kg	1	10/17/23	TH	SW6010D
Aluminum	5780	35		mg/Kg	10	10/17/23	TH	SW6010D
Arsenic	4.17	0.71		mg/Kg	1	10/17/23	TH	SW6010D
Barium	175	0.7		mg/Kg	1	10/17/23	TH	SW6010D
Beryllium	0.40	0.28		mg/Kg	1	10/17/23	TH	SW6010D
Calcium	2760	3.5		mg/Kg	1	10/17/23	TH	SW6010D
Cadmium	2.14	0.35		mg/Kg	1	10/17/23	TH	SW6010D
Cobalt	7.08	0.35		mg/Kg	1	10/17/23	TH	SW6010D
Chromium	17.0	0.35		mg/Kg	1	10/17/23	TH	SW6010D
Copper	148	0.7		mg/kg	1	10/17/23	TH	SW6010D
Iron	25000	35		mg/Kg	10	10/17/23	TH	SW6010D
Mercury	0.17	0.03		mg/Kg	2	10/13/23	AL1	SW7471B
Potassium	1580	71		mg/Kg	10	10/17/23	TH	SW6010D
Magnesium	2860	3.5		mg/Kg	1	10/17/23	TH	SW6010D
Manganese	662	3.5		mg/Kg	10	10/17/23	TH	SW6010D
Sodium	119	7		mg/Kg	1	10/17/23	TH	SW6010D
Nickel	29.0	0.35		mg/Kg	1	10/17/23	TH	SW6010D
Lead	2220	71		mg/Kg	100	10/19/23	TH	SW6010D
Antimony	< 3.5	3.5		mg/Kg	1	10/17/23	TH	SW6010D
Selenium	< 1.4	1.4		mg/Kg	1	10/17/23	TH	SW6010D
Thallium	< 1.4	1.4		mg/Kg	1	10/17/23	TH	SW6010D
Vanadium	28.9	0.35		mg/Kg	1	10/17/23	TH	SW6010D
Zinc	291	7.1		mg/Kg	10	10/17/23	TH	SW6010D
Percent Solid	86			%		10/11/23	CV	SW846-%Solid
Field Extraction	Completed					10/10/23		SW5035A
Mercury Digestion	Completed					10/13/23	ZT/AL	SW7471B
Soil Extraction for PCB	Completed					10/13/23	H/F	SW3546

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for Pesticides	Completed					10/13/23	H/F	SW3546
Soil Extraction for SVOA	Completed					10/13/23	J/F	SW3546
Total Metals Digest	Completed					10/13/23	L/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	77	77	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1221	ND	77	77	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1232	ND	77	77	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1242	ND	77	77	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1248	ND	77	77	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1254	ND	77	77	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1260	ND	77	77	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1262	ND	77	77	ug/Kg	2	10/15/23	SC	SW8082A
PCB-1268	ND	77	77	ug/Kg	2	10/15/23	SC	SW8082A

QA/QC Surrogates

% DCBP	54			%	2	10/15/23	SC	30 - 150 %
% DCBP (Confirmation)	52			%	2	10/15/23	SC	30 - 150 %
% TCMX	53			%	2	10/15/23	SC	30 - 150 %
% TCMX (Confirmation)	54			%	2	10/15/23	SC	30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	2.3		ug/Kg	2	10/16/23	AW	SW8081B
4,4' -DDE	ND	2.3		ug/Kg	2	10/16/23	AW	SW8081B
4,4' -DDT	9.2	2.3		ug/Kg	2	10/16/23	AW	SW8081B
a-BHC	ND	7.7		ug/Kg	2	10/16/23	AW	SW8081B
a-Chlordane	ND	3.8		ug/Kg	2	10/16/23	AW	SW8081B
Aldrin	ND	3.8		ug/Kg	2	10/16/23	AW	SW8081B
b-BHC	ND	7.7		ug/Kg	2	10/16/23	AW	SW8081B
Chlordane	ND	38		ug/Kg	2	10/16/23	AW	SW8081B
d-BHC	ND	7.7		ug/Kg	2	10/16/23	AW	SW8081B
Dieldrin	ND	3.8		ug/Kg	2	10/16/23	AW	SW8081B
Endosulfan I	ND	7.7		ug/Kg	2	10/16/23	AW	SW8081B
Endosulfan II	ND	7.7		ug/Kg	2	10/16/23	AW	SW8081B
Endosulfan sulfate	ND	7.7		ug/Kg	2	10/16/23	AW	SW8081B
Endrin	ND	7.7		ug/Kg	2	10/16/23	AW	SW8081B
Endrin aldehyde	ND	75		ug/Kg	2	10/16/23	AW	SW8081B
Endrin ketone	ND	7.7		ug/Kg	2	10/16/23	AW	SW8081B
g-BHC	ND	1.5		ug/Kg	2	10/16/23	AW	SW8081B
g-Chlordane	ND	3.8		ug/Kg	2	10/16/23	AW	SW8081B
Heptachlor	ND	7.7		ug/Kg	2	10/16/23	AW	SW8081B
Heptachlor epoxide	ND	7.7		ug/Kg	2	10/16/23	AW	SW8081B
Methoxychlor	ND	38		ug/Kg	2	10/16/23	AW	SW8081B
Toxaphene	ND	150		ug/Kg	2	10/16/23	AW	SW8081B

QA/QC Surrogates

% DCBP	61			%	2	10/16/23	AW	30 - 150 %
% DCBP (Confirmation)	67			%	2	10/16/23	AW	30 - 150 %
% TCMX	61			%	2	10/16/23	AW	30 - 150 %
% TCMX (Confirmation)	64			%	2	10/16/23	AW	30 - 150 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
1,1,1-Trichloroethane	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
1,1,2-Trichloroethane	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
1,1-Dichloroethane	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
1,1-Dichloroethene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
1,1-Dichloropropene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,3-Trichloropropane	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dibromoethane	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dichlorobenzene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dichloroethane	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dichloropropane	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
1,3-Dichlorobenzene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
1,3-Dichloropropane	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
1,4-Dichlorobenzene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
2,2-Dichloropropane	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
2-Chlorotoluene	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
2-Hexanone	ND	35	7.0	ug/Kg	1	10/13/23	JLI	SW8260D
2-Isopropyltoluene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
4-Chlorotoluene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
4-Methyl-2-pentanone	ND	35	7.0	ug/Kg	1	10/13/23	JLI	SW8260D
Acetone	ND	35	7.0	ug/Kg	1	10/13/23	JLI	SW8260D
Acrylonitrile	ND	14	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
Benzene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
Bromobenzene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
Bromochloromethane	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
Bromodichloromethane	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
Bromoform	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
Bromomethane	ND	7.0	2.8	ug/Kg	1	10/13/23	JLI	SW8260D
Carbon Disulfide	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
Carbon tetrachloride	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
Chlorobenzene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
Chloroethane	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
Chloroform	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
Chloromethane	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
cis-1,2-Dichloroethene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
cis-1,3-Dichloropropene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
Dibromochloromethane	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
Dibromomethane	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
Dichlorodifluoromethane	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
Ethylbenzene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
Hexachlorobutadiene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
Isopropylbenzene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
Methyl Ethyl Ketone	ND	42	7.0	ug/Kg	1	10/13/23	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	14	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
Methylene chloride	ND	7.0	7.0	ug/Kg	1	10/13/23	JLI	SW8260D
Naphthalene	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
n-Butylbenzene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
n-Propylbenzene	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
o-Xylene	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
p-Isopropyltoluene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
sec-Butylbenzene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
Styrene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
tert-Butylbenzene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
Tetrachloroethene	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
Tetrahydrofuran (THF)	ND	14	3.5	ug/Kg	1	10/13/23	JLI	SW8260D
Toluene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
trans-1,2-Dichloroethene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
trans-1,3-Dichloropropene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	14	3.5	ug/Kg	1	10/13/23	JLI	SW8260D
Trichloroethene	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
Trichlorofluoromethane	ND	7.0	1.4	ug/Kg	1	10/13/23	JLI	SW8260D
Trichlorotrifluoroethane	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
Vinyl chloride	ND	7.0	0.70	ug/Kg	1	10/13/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	96			%	1	10/13/23	JLI	70 - 130 %
% Bromofluorobenzene	90			%	1	10/13/23	JLI	70 - 130 %
% Dibromofluoromethane	98			%	1	10/13/23	JLI	70 - 130 %
% Toluene-d8	97			%	1	10/13/23	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	100		ug/kg	1	10/13/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	96			%	1	10/13/23	JLI	70 - 130 %
% Bromofluorobenzene	90			%	1	10/13/23	JLI	70 - 130 %
% Dibromofluoromethane	98			%	1	10/13/23	JLI	70 - 130 %
% Toluene-d8	97			%	1	10/13/23	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	28		ug/Kg	1	10/13/23	JLI	SW8260D
Acrolein	ND	7.0		ug/Kg	1	10/13/23	JLI	SW8260D
Acrylonitrile	ND	28		ug/Kg	1	10/13/23	JLI	SW8260D
Tert-butyl alcohol	ND	140		ug/Kg	1	10/13/23	JLI	SW8260D
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	270	130	ug/Kg	1	10/14/23	AW	SW8270D
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	10/14/23	AW	SW8270D
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	10/14/23	AW	SW8270D
1,2-Diphenylhydrazine	ND	270	120	ug/Kg	1	10/14/23	AW	SW8270D
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	10/14/23	AW	SW8270D
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	10/14/23	AW	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	110	ug/Kg	1	10/14/23	AW	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	10/14/23	AW	SW8270D
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	10/14/23	AW	SW8270D
2,4-Dichlorophenol	ND	190	130	ug/Kg	1	10/14/23	AW	SW8270D
2,4-Dimethylphenol	ND	270	95	ug/Kg	1	10/14/23	AW	SW8270D
2,4-Dinitrophenol	ND	270	270	ug/Kg	1	10/14/23	AW	SW8270D
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	10/14/23	AW	SW8270D
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	10/14/23	AW	SW8270D
2-Chloronaphthalene	ND	270	110	ug/Kg	1	10/14/23	AW	SW8270D
2-Chlorophenol	ND	270	110	ug/Kg	1	10/14/23	AW	SW8270D
2-Methylnaphthalene	140	J 270	110	ug/Kg	1	10/14/23	AW	SW8270D
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	10/14/23	AW	SW8270D
2-Nitroaniline	ND	270	270	ug/Kg	1	10/14/23	AW	SW8270D
2-Nitrophenol	ND	270	240	ug/Kg	1	10/14/23	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	10/14/23	AW	SW8270D
3,3'-Dichlorobenzidine	ND	190	180	ug/Kg	1	10/14/23	AW	SW8270D
3-Nitroaniline	ND	380	760	ug/Kg	1	10/14/23	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	230	76	ug/Kg	1	10/14/23	AW	SW8270D
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	10/14/23	AW	SW8270D
4-Chloro-3-methylphenol	ND	270	130	ug/Kg	1	10/14/23	AW	SW8270D
4-Chloroaniline	ND	310	180	ug/Kg	1	10/14/23	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	10/14/23	AW	SW8270D
4-Nitroaniline	ND	380	130	ug/Kg	1	10/14/23	AW	SW8270D
4-Nitrophenol	ND	380	170	ug/Kg	1	10/14/23	AW	SW8270D
Acenaphthene	250	J 270	120	ug/Kg	1	10/14/23	AW	SW8270D
Acenaphthylene	200	J 270	110	ug/Kg	1	10/14/23	AW	SW8270D
Acetophenone	ND	270	120	ug/Kg	1	10/14/23	AW	SW8270D
Aniline	ND	310	310	ug/Kg	1	10/14/23	AW	SW8270D
Anthracene	460	270	130	ug/Kg	1	10/14/23	AW	SW8270D
Benz(a)anthracene	1400	270	130	ug/Kg	1	10/14/23	AW	SW8270D
Benzidine	ND	380	220	ug/Kg	1	10/14/23	AW	SW8270D
Benzo(a)pyrene	1200	190	120	ug/Kg	1	10/14/23	AW	SW8270D
Benzo(b)fluoranthene	1600	270	130	ug/Kg	1	10/14/23	AW	SW8270D
Benzo(ghi)perylene	630	270	120	ug/Kg	1	10/14/23	AW	SW8270D
Benzo(k)fluoranthene	570	270	130	ug/Kg	1	10/14/23	AW	SW8270D
Benzoic acid	ND	1900	760	ug/Kg	1	10/14/23	AW	SW8270D
Benzyl butyl phthalate	530	270	98	ug/Kg	1	10/14/23	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	10/14/23	AW	SW8270D
Bis(2-chloroethyl)ether	ND	190	100	ug/Kg	1	10/14/23	AW	SW8270D
Bis(2-ethylhexyl)phthalate	390	270	110	ug/Kg	1	10/14/23	AW	SW8270D
Carbazole	200	190	150	ug/Kg	1	10/14/23	AW	SW8270D
Chrysene	1400	270	130	ug/Kg	1	10/14/23	AW	SW8270D
Dibenz(a,h)anthracene	160	J 190	120	ug/Kg	1	10/14/23	AW	SW8270D
Dibenzofuran	240	J 270	110	ug/Kg	1	10/14/23	AW	SW8270D
Diethyl phthalate	ND	270	120	ug/Kg	1	10/14/23	AW	SW8270D
Dimethylphthalate	ND	270	120	ug/Kg	1	10/14/23	AW	SW8270D
Di-n-butylphthalate	ND	270	100	ug/Kg	1	10/14/23	AW	SW8270D
Di-n-octylphthalate	ND	270	98	ug/Kg	1	10/14/23	AW	SW8270D
Fluoranthene	2900	270	120	ug/Kg	1	10/14/23	AW	SW8270D
Fluorene	260	J 270	130	ug/Kg	1	10/14/23	AW	SW8270D

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	190	110	ug/Kg	1	10/14/23	AW	SW8270D
Hexachlorobutadiene	ND	270	140	ug/Kg	1	10/14/23	AW	SW8270D
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	10/14/23	AW	SW8270D
Hexachloroethane	ND	190	110	ug/Kg	1	10/14/23	AW	SW8270D
Indeno(1,2,3-cd)pyrene	590	270	130	ug/Kg	1	10/14/23	AW	SW8270D
Isophorone	ND	190	110	ug/Kg	1	10/14/23	AW	SW8270D
Naphthalene	190 J	270	110	ug/Kg	1	10/14/23	AW	SW8270D
Nitrobenzene	ND	190	130	ug/Kg	1	10/14/23	AW	SW8270D
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	10/14/23	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	190	120	ug/Kg	1	10/14/23	AW	SW8270D
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	10/14/23	AW	SW8270D
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	10/14/23	AW	SW8270D
Pentachlorophenol	ND	230	140	ug/Kg	1	10/14/23	AW	SW8270D
Phenanthrene	2500	270	110	ug/Kg	1	10/14/23	AW	SW8270D
Phenol	ND	270	120	ug/Kg	1	10/14/23	AW	SW8270D
Pyrene	2600	270	130	ug/Kg	1	10/14/23	AW	SW8270D
Pyridine	ND	270	94	ug/Kg	1	10/14/23	AW	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	62			%	1	10/14/23	AW	30 - 130 %
% 2-Fluorobiphenyl	53			%	1	10/14/23	AW	30 - 130 %
% 2-Fluorophenol	36			%	1	10/14/23	AW	30 - 130 %
% Nitrobenzene-d5	40			%	1	10/14/23	AW	30 - 130 %
% Phenol-d5	43			%	1	10/14/23	AW	30 - 130 %
% Terphenyl-d14	71			%	1	10/14/23	AW	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

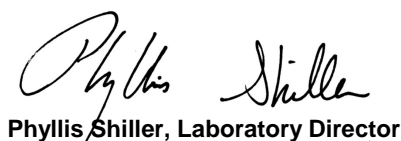
Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.


Phyllis Shiller, Laboratory Director

October 23, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 20, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Sample Information

Matrix: SOIL
Location Code: BRUSSEE
Rush Request: Standard
P.O.#:

Custody Information

Collected by: BG
Received by: SW
Analyzed by: see "By" below

Date

10/10/23
10/11/23

Time

10:00
16:09

Laboratory Data

SDG ID: GCP23152
Phoenix ID: CP23155

Project ID: 28 PUTNAM AVENUE
Client ID: TB HL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed					10/10/23		SW5035A
Volatiles								
1,1,1,2-Tetrachloroethane	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
1,1,1-Trichloroethane	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
1,1,2-Trichloroethane	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
1,1-Dichloroethane	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
1,1-Dichloroethene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
1,1-Dichloropropene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
1,2,3-Trichloropropane	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
1,2-Dibromoethane	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
1,2-Dichlorobenzene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
1,2-Dichloroethane	ND	25	25	ug/Kg	50	10/13/23	JLI	SW8260D
1,2-Dichloropropane	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
1,3-Dichlorobenzene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
1,3-Dichloropropane	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
1,4-Dichlorobenzene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
2,2-Dichloropropane	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
2-Chlorotoluene	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
2-Hexanone	ND	1300	250	ug/Kg	50	10/13/23	JLI	SW8260D
2-Isopropyltoluene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D

Client ID: TB HL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
4-Methyl-2-pentanone	ND	1300	250	ug/Kg	50	10/13/23	JLI	SW8260D
Acetone	ND	250	250	ug/Kg	50	10/13/23	JLI	SW8260D
Acrylonitrile	ND	500	50	ug/Kg	50	10/13/23	JLI	SW8260D
Benzene	ND	60	25	ug/Kg	50	10/13/23	JLI	SW8260D
Bromobenzene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
Bromochloromethane	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
Bromodichloromethane	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
Bromoform	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
Bromomethane	ND	250	100	ug/Kg	50	10/13/23	JLI	SW8260D
Carbon Disulfide	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
Carbon tetrachloride	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
Chlorobenzene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
Chloroethane	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
Chloroform	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
Chloromethane	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
cis-1,2-Dichloroethene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
cis-1,3-Dichloropropene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
Dibromochloromethane	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
Dibromomethane	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
Dichlorodifluoromethane	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
Ethylbenzene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
Hexachlorobutadiene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
Isopropylbenzene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
m&p-Xylene	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
Methyl Ethyl Ketone	ND	120	120	ug/Kg	50	10/13/23	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	500	50	ug/Kg	50	10/13/23	JLI	SW8260D
Methylene chloride	ND	100	100	ug/Kg	50	10/13/23	JLI	SW8260D
Naphthalene	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
n-Butylbenzene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
n-Propylbenzene	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
o-Xylene	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
p-Isopropyltoluene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
sec-Butylbenzene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
Styrene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
tert-Butylbenzene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
Tetrachloroethene	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
Tetrahydrofuran (THF)	ND	500	130	ug/Kg	50	10/13/23	JLI	SW8260D
Toluene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
trans-1,2-Dichloroethene	ND	190	25	ug/Kg	50	10/13/23	JLI	SW8260D
trans-1,3-Dichloropropene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	500	130	ug/Kg	50	10/13/23	JLI	SW8260D
Trichloroethene	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
Trichlorofluoromethane	ND	250	50	ug/Kg	50	10/13/23	JLI	SW8260D
Trichlorotrifluoroethane	ND	250	25	ug/Kg	50	10/13/23	JLI	SW8260D
Vinyl chloride	ND	25	25	ug/Kg	50	10/13/23	JLI	SW8260D
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4 (50x)	97			%	50	10/13/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	95			%	50	10/13/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane (50x)	96			%	50	10/13/23	JLI	70 - 130 %
% Toluene-d8 (50x)	98			%	50	10/13/23	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	2000		ug/kg	50	10/13/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4 (50x)	97			%	50	10/13/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	95			%	50	10/13/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	96			%	50	10/13/23	JLI	70 - 130 %
% Toluene-d8 (50x)	98			%	50	10/13/23	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	1000		ug/Kg	50	10/13/23	JLI	SW8260D
Acrolein	ND	250		ug/Kg	50	10/13/23	JLI	SW8260D
Acrylonitrile	ND	1000		ug/Kg	50	10/13/23	JLI	SW8260D
Tert-butyl alcohol	ND	5000		ug/Kg	50	10/13/23	JLI	SW8260D

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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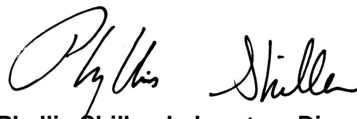
Results are reported on an ``as received`` basis, and are not corrected for dry weight.

Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

October 23, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 20, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Sample Information

Matrix: SOIL
Location Code: BRUSSEE
Rush Request: Standard
P.O.#:

Custody Information

Collected by: BG
Received by: SW
Analyzed by: see "By" below

Date

10/10/23
10/11/23

Time

10:00
16:09

Laboratory Data

SDG ID: GCP23152
Phoenix ID: CP23156

Project ID: 28 PUTNAM AVENUE
Client ID: TB LL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed					10/10/23		SW5035A
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
1,1,1-Trichloroethane	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
1,1-Dichloroethane	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
1,1-Dichloroethene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
1,1-Dichloropropene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,3-Trichloropropane	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dibromoethane	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dichloroethane	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dichloropropane	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
1,3-Dichloropropane	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
2,2-Dichloropropane	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
2-Chlorotoluene	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
2-Hexanone	ND	25	5.0	ug/Kg	1	10/12/23	JLI	SW8260D
2-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D

Client ID: TB LL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
4-Methyl-2-pentanone	ND	25	5.0	ug/Kg	1	10/12/23	JLI	SW8260D
Acetone	7.9 JS	25	5.0	ug/Kg	1	10/12/23	JLI	SW8260D
Acrylonitrile	ND	10	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
Benzene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
Bromobenzene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
Bromochloromethane	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
Bromodichloromethane	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
Bromoform	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
Bromomethane	ND	5.0	2.0	ug/Kg	1	10/12/23	JLI	SW8260D
Carbon Disulfide	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
Carbon tetrachloride	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
Chlorobenzene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
Chloroethane	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
Chloroform	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
Chloromethane	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
Dibromochloromethane	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
Dibromomethane	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
Dichlorodifluoromethane	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
Ethylbenzene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
Hexachlorobutadiene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
Isopropylbenzene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
m&p-Xylene	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
Methyl Ethyl Ketone	ND	30	5.0	ug/Kg	1	10/12/23	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	10	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
Methylene chloride	ND	5.0	5.0	ug/Kg	1	10/12/23	JLI	SW8260D
Naphthalene	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
n-Butylbenzene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
n-Propylbenzene	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
o-Xylene	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
p-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
sec-Butylbenzene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
Styrene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
tert-Butylbenzene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
Tetrachloroethene	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
Tetrahydrofuran (THF)	5.8 J	10	2.5	ug/Kg	1	10/12/23	JLI	SW8260D
Toluene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	10	2.5	ug/Kg	1	10/12/23	JLI	SW8260D
Trichloroethene	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
Trichlorofluoromethane	ND	5.0	1.0	ug/Kg	1	10/12/23	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
Vinyl chloride	ND	5.0	0.50	ug/Kg	1	10/12/23	JLI	SW8260D
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	96			%	1	10/12/23	JLI	70 - 130 %
% Bromofluorobenzene	95			%	1	10/12/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	97			%	1	10/12/23	JLI	70 - 130 %
% Toluene-d8	99			%	1	10/12/23	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	75		ug/kg	1	10/12/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	96			%	1	10/12/23	JLI	70 - 130 %
% Bromofluorobenzene	95			%	1	10/12/23	JLI	70 - 130 %
% Dibromofluoromethane	97			%	1	10/12/23	JLI	70 - 130 %
% Toluene-d8	99			%	1	10/12/23	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	20		ug/Kg	1	10/12/23	JLI	SW8260D
Acrolein	ND	5.0		ug/Kg	1	10/12/23	JLI	SW8260D
Acrylonitrile	ND	20		ug/Kg	1	10/12/23	JLI	SW8260D
Tert-butyl alcohol	ND	100		ug/Kg	1	10/12/23	JLI	SW8260D

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

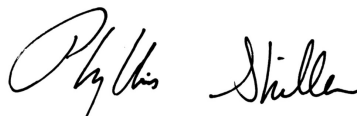
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Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

October 23, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



QA/QC Report

October 23, 2023

QA/QC Data

SDG I.D.: GCP23152

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 701630 (mg/kg), QC Sample No: CP23084 2X (CP23152, CP23153, CP23154)

Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	116	99.0	15.8	102	97.7	4.3	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 701532 (mg/kg), QC Sample No: CP24164 (CP23152, CP23153)

ICP Metals - Soil

Aluminum	BRL	5.0	8940	10400	15.1	105	105	0.0	NC			75 - 125	35
Antimony	BRL	3.3	<3.5	<3.7	NC	83.6	84.7	1.3	96.0			75 - 125	35
Arsenic	BRL	0.67	3.35	3.68	NC	101	99.8	1.2	100			75 - 125	35
Barium	BRL	0.33	24.8	28.4	13.5	108	117	8.0	118			75 - 125	35
Beryllium	BRL	0.27	0.30	0.34	NC	98.8	96.6	2.3	97.9			75 - 125	35
Cadmium	BRL	0.33	0.56	0.65	NC	104	102	1.9	101			75 - 125	35
Calcium	BRL	5.0	649	562	14.4	100	101	1.0	>130			75 - 125	35 m
Chromium	BRL	0.33	11.8	13.4	12.7	105	105	0.0	108			75 - 125	35
Cobalt	BRL	0.33	4.62	5.22	12.2	103	104	1.0	104			75 - 125	35
Copper	BRL	0.67	7.0	7.61	8.40	101	102	1.0	105			75 - 125	35
Iron	BRL	5.0	8570	10200	17.4	109	108	0.9	NC			75 - 125	35
Lead	BRL	0.33	3.49	3.98	13.1	106	106	0.0	105			75 - 125	35
Magnesium	BRL	5.0	1810	2020	11.0	109	109	0.0	NC			75 - 125	35
Manganese	BRL	0.33	96.8	102	5.20	103	114	10.1	129			75 - 125	35 m
Nickel	BRL	0.33	7.51	9.15	19.7	100	102	2.0	105			75 - 125	35
Potassium	BRL	5.0	546	555	1.60	114	115	0.9	>130			75 - 125	35 m
Selenium	BRL	1.3	<1.4	<1.5	NC	105	103	1.9	101			75 - 125	35
Silver	BRL	0.33	<0.35	<0.37	NC	101	101	0.0	100			75 - 125	35
Sodium	BRL	5.0	84.0	84.5	0.60	104	105	1.0	>130			75 - 125	35 m
Thallium	BRL	3.0	<3.2	<3.3	NC	104	102	1.9	99.6			75 - 125	35
Vanadium	BRL	0.33	16.3	20.5	22.8	105	105	0.0	109			75 - 125	35
Zinc	BRL	0.67	14.7	15.0	2.00	101	101	0.0	103			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 701751 (mg/kg), QC Sample No: CP25562 (CP23154)

ICP Metals - Soil

Aluminum	BRL	5.0	6210	4860	24.4	96.8	92.4	4.7	NC			75 - 125	35
Antimony	BRL	3.3	<3.6	<3.2	NC	80.5	75.5	6.4	89.8			75 - 125	35
Arsenic	BRL	0.67	3.72	3.23	14.1	94.3	88.2	6.7	94.8			75 - 125	35
Barium	BRL	0.33	24.6	19.5	23.1	100	98.6	1.4	104			75 - 125	35
Beryllium	BRL	0.27	<0.29	<0.25	NC	93.4	86.9	7.2	94.9			75 - 125	35
Cadmium	BRL	0.33	0.37	<0.32	NC	97.1	92.8	4.5	98.8			75 - 125	35
Calcium	BRL	5.0	936	546	52.6	95.6	90.4	5.6	NC			75 - 125	35 r
Chromium	BRL	0.33	10.7	7.19	39.2	97.1	91.1	6.4	95.4			75 - 125	35 r
Cobalt	BRL	0.33	4.33	3.84	12.0	96.5	90.5	6.4	97.4			75 - 125	35
Copper	BRL	0.67	9.8	7.32	29.0	90.7	86.3	5.0	88.1			75 - 125	35

QA/QC Data

SDG I.D.: GCP23152

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Iron	BRL	5.0	7010	5660	21.3	104	101	2.9	NC			75 - 125	35
Lead	BRL	0.33	3.51	2.50	33.6	102	93.9	8.3	97.3			75 - 125	35
Magnesium	BRL	5.0	1810	1340	29.8	102	96.9	5.1	NC			75 - 125	35
Manganese	BRL	0.33	128	102	22.6	94.2	97.7	3.6	95.4			75 - 125	35
Nickel	BRL	0.33	9.58	5.98	46.3	94.4	88.8	6.1	95.1			75 - 125	35
Potassium	BRL	5.0	783	647	19.0	105	100	4.9	105			75 - 125	35
Selenium	BRL	1.3	<1.4	<1.3	NC	86.8	83.1	4.4	86.9			75 - 125	35
Silver	BRL	0.33	<0.36	<0.32	NC	91.5	86.1	6.1	90.1			75 - 125	35
Sodium	BRL	5.0	132	70.9	60.2	95.0	90.5	4.9	>130			75 - 125	35
Thallium	BRL	3.0	<3.2	<2.9	NC	95.9	92.0	4.2	93.3			75 - 125	35
Vanadium	BRL	0.33	12.4	10.2	19.5	96.8	91.8	5.3	95.4			75 - 125	35
Zinc	BRL	0.67	13.1	11.3	14.8	90.2	85.4	5.5	92.4			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.



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QA/QC Report

October 23, 2023

QA/QC Data

SDG I.D.: GCP23152

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 701763 (ug/Kg), QC Sample No: CP23152 2X (CP23152, CP23153, CP23154)											
<u>Polychlorinated Biphenyls - Soil</u>											
PCB-1016	ND	33	45	54	18.2	49	41	17.8	40 - 140	30	
PCB-1221	ND	33							40 - 140	30	
PCB-1232	ND	33							40 - 140	30	
PCB-1242	ND	33							40 - 140	30	
PCB-1248	ND	33							40 - 140	30	
PCB-1254	ND	33							40 - 140	30	
PCB-1260	ND	33	45	52	14.4	48	39	20.7	40 - 140	30	m
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	61	%	57	68	17.6	62	50	21.4	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm)	61	%	54	66	20.0	59	48	20.6	30 - 150	30	
% TCMX (Surrogate Rec)	51	%	45	55	20.0	50	41	19.8	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm)	52	%	46	57	21.4	51	42	19.4	30 - 150	30	
QA/QC Batch 701764 (ug/Kg), QC Sample No: CP23152 2X (CP23152, CP23153, CP23154)											
<u>Pesticides - Soil</u>											
4,4' -DDD	ND	1.7	55	59	7.0	75	52	36.2	40 - 140	30	r
4,4' -DDE	ND	1.7	60	67	11.0	77	54	35.1	40 - 140	30	r
4,4' -DDT	ND	1.7	60	67	11.0	81	56	36.5	40 - 140	30	r
a-BHC	ND	1.0	56	62	10.2	68	48	34.5	40 - 140	30	r
a-Chlordane	ND	3.3	58	68	15.9	77	53	36.9	40 - 140	30	r
Aldrin	ND	1.0	61	67	9.4	77	54	35.1	40 - 140	30	r
b-BHC	ND	1.0	65	70	7.4	85	62	31.3	40 - 140	30	r
Chlordane	ND	3.3	59	68	14.2	76	54	33.8	40 - 140	30	r
d-BHC	ND	3.3	52	61	15.9	61	40	41.6	40 - 140	30	r
Dieldrin	ND	1.0	62	68	9.2	78	55	34.6	40 - 140	30	r
Endosulfan I	ND	3.3	67	70	4.4	79	54	37.6	40 - 140	30	r
Endosulfan II	ND	3.3	64	72	11.8	80	54	38.8	40 - 140	30	r
Endosulfan sulfate	ND	3.3	62	68	9.2	78	56	32.8	40 - 140	30	r
Endrin	ND	3.3	60	67	11.0	79	56	34.1	40 - 140	30	r
Endrin aldehyde	ND	3.3	57	63	10.0	65	45	36.4	40 - 140	30	r
Endrin ketone	ND	3.3	63	69	9.1	82	57	36.0	40 - 140	30	r
g-BHC	ND	1.0	61	67	9.4	76	53	35.7	40 - 140	30	r
g-Chlordane	ND	3.3	59	68	14.2	76	54	33.8	40 - 140	30	r
Heptachlor	ND	3.3	63	69	9.1	79	56	34.1	40 - 140	30	r
Heptachlor epoxide	ND	3.3	58	66	12.9	75	53	34.4	40 - 140	30	r
Methoxychlor	ND	3.3	62	68	9.2	85	60	34.5	40 - 140	30	r
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	62	%	59	65	9.7	80	57	33.6	30 - 150	30	r
% DCBP (Confirmation)	50	%	51	64	22.6	70	56	22.2	30 - 150	30	
% TCMX	62	%	58	63	8.3	77	54	35.1	30 - 150	30	r
% TCMX (Confirmation)	54	%	52	55	5.6	65	47	32.1	30 - 150	30	r

QA/QC Data

SDG I.D.: GCP23152

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 701538 (ug/kg), QC Sample No: CP11560 (CP23152, CP23153)										
Semivolatiles - Soil										
1,2,4,5-Tetrachlorobenzene	ND	230	69	69	0.0	69	69	0.0	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	66	66	0.0	68	69	1.5	40 - 140	30
1,2-Dichlorobenzene	ND	180	59	63	6.6	62	65	4.7	40 - 140	30
1,2-Diphenylhydrazine	ND	230	72	76	5.4	77	77	0.0	40 - 140	30
1,3-Dichlorobenzene	ND	230	56	59	5.2	57	60	5.1	40 - 140	30
1,4-Dichlorobenzene	ND	230	57	59	3.4	60	62	3.3	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	68	70	2.9	71	73	2.8	40 - 140	30
2,4,5-Trichlorophenol	ND	230	74	77	4.0	81	78	3.8	40 - 140	30
2,4,6-Trichlorophenol	ND	130	79	81	2.5	78	81	3.8	30 - 130	30
2,4-Dichlorophenol	ND	130	77	78	1.3	84	83	1.2	30 - 130	30
2,4-Dimethylphenol	ND	230	79	82	3.7	84	83	1.2	30 - 130	30
2,4-Dinitrophenol	ND	230	78	83	6.2	24	14	52.6	30 - 130	30 m,r
2,4-Dinitrotoluene	ND	130	76	79	3.9	91	88	3.4	30 - 130	30
2,6-Dinitrotoluene	ND	130	76	79	3.9	79	77	2.6	40 - 140	30
2-Chloronaphthalene	ND	230	71	71	0.0	72	72	0.0	40 - 140	30
2-Chlorophenol	ND	230	70	70	0.0	73	73	0.0	30 - 130	30
2-Methylnaphthalene	ND	230	70	70	0.0	66	63	4.7	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	74	74	0.0	90	112	21.8	40 - 140	30
2-Nitroaniline	ND	330	122	126	3.2	137	153	11.0	40 - 140	30 m
2-Nitrophenol	ND	230	72	71	1.4	157	>200	NC	40 - 140	30 m
3&4-Methylphenol (m&p-cresol)	ND	230	73	74	1.4	78	73	6.6	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	65	61	6.3	46	52	12.2	40 - 140	30
3-Nitroaniline	ND	330	82	74	10.3	96	91	5.3	40 - 140	30
4,6-Dinitro-2-methylphenol	ND	230	81	87	7.1	27	21	25.0	30 - 130	30 m
4-Bromophenyl phenyl ether	ND	230	73	77	5.3	63	60	4.9	40 - 140	30
4-Chloro-3-methylphenol	ND	230	81	85	4.8	74	73	1.4	30 - 130	30
4-Chloroaniline	ND	230	78	61	24.5	75	80	6.5	40 - 140	30
4-Chlorophenyl phenyl ether	ND	230	74	78	5.3	75	75	0.0	40 - 140	30
4-Nitroaniline	ND	230	79	85	7.3	78	80	2.5	40 - 140	30
4-Nitrophenol	ND	230	65	62	4.7	78	93	17.5	30 - 130	30
Acenaphthene	ND	230	73	76	4.0	82	82	0.0	30 - 130	30
Acenaphthylene	ND	130	69	71	2.9	67	68	1.5	40 - 140	30
Acetophenone	ND	230	68	70	2.9	72	74	2.7	40 - 140	30
Aniline	ND	330	58	45	25.2	53	54	1.9	40 - 140	30
Anthracene	ND	230	75	80	6.5	82	82	0.0	40 - 140	30
Benz(a)anthracene	ND	230	69	73	5.6	66	65	1.5	40 - 140	30
Benzidine	ND	330	71	31	78.4	32	26	20.7	40 - 140	30 l,m,r
Benzo(a)pyrene	ND	130	79	83	4.9	74	73	1.4	40 - 140	30
Benzo(b)fluoranthene	ND	160	71	74	4.1	67	67	0.0	40 - 140	30
Benzo(ghi)perylene	ND	230	76	81	6.4	65	65	0.0	40 - 140	30
Benzo(k)fluoranthene	ND	230	68	71	4.3	70	67	4.4	40 - 140	30
Benzoic Acid	ND	670	63	76	18.7	104	103	1.0	30 - 130	30
Benzyl butyl phthalate	ND	230	76	80	5.1	56	54	3.6	40 - 140	30
Bis(2-chloroethoxy)methane	ND	230	71	71	0.0	74	70	5.6	40 - 140	30
Bis(2-chloroethyl)ether	ND	130	64	66	3.1	65	65	0.0	40 - 140	30
Bis(2-ethylhexyl)phthalate	ND	230	76	82	7.6	76	73	4.0	40 - 140	30
Carbazole	ND	230	73	76	4.0	79	79	0.0	40 - 140	30
Chrysene	ND	230	73	77	5.3	77	76	1.3	40 - 140	30
Dibenz(a,h)anthracene	ND	130	75	81	7.7	67	68	1.5	40 - 140	30
Dibenzofuran	ND	230	71	74	4.1	79	80	1.3	40 - 140	30

QA/QC Data

SDG I.D.: GCP23152

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Diethyl phthalate	ND	230	77	82	6.3	75	75	0.0	40 - 140	30
Dimethylphthalate	ND	230	73	78	6.6	66	65	1.5	40 - 140	30
Di-n-butylphthalate	ND	670	76	80	5.1	76	74	2.7	40 - 140	30
Di-n-octylphthalate	ND	230	82	88	7.1	77	77	0.0	40 - 140	30
Fluoranthene	ND	230	69	73	5.6	86	88	2.3	40 - 140	30
Fluorene	ND	230	75	78	3.9	84	85	1.2	40 - 140	30
Hexachlorobenzene	ND	130	76	79	3.9	91	80	12.9	40 - 140	30
Hexachlorobutadiene	ND	230	67	69	2.9	76	73	4.0	40 - 140	30
Hexachlorocyclopentadiene	ND	230	59	60	1.7	<10	<10	NC	40 - 140	30 m
Hexachloroethane	ND	130	60	61	1.7	60	55	8.7	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	78	82	5.0	62	63	1.6	40 - 140	30
Isophorone	ND	130	66	66	0.0	71	71	0.0	40 - 140	30
Naphthalene	ND	230	69	70	1.4	78	79	1.3	40 - 140	30
Nitrobenzene	ND	130	67	69	2.9	67	71	5.8	40 - 140	30
N-Nitrosodimethylamine	ND	230	54	55	1.8	33	34	3.0	40 - 140	30 m
N-Nitrosodi-n-propylamine	ND	130	72	74	2.7	78	79	1.3	40 - 140	30
N-Nitrosodiphenylamine	ND	130	73	78	6.6	141	132	6.6	40 - 140	30 m
Pentachloronitrobenzene	ND	230	74	77	4.0	82	<10	NC	40 - 140	30 m
Pentachlorophenol	ND	230	75	83	10.1	92	94	2.2	30 - 130	30
Phenanthrene	ND	130	75	79	5.2	78	77	1.3	40 - 140	30
Phenol	ND	230	72	72	0.0	73	70	4.2	30 - 130	30
Pyrene	ND	230	64	70	9.0	101	102	1.0	30 - 130	30
Pyridine	ND	230	42	47	11.2	25	23	8.3	40 - 140	30 m
% 2,4,6-Tribromophenol	84	%	80	84	4.9	94	87	7.7	30 - 130	30
% 2-Fluorobiphenyl	65	%	69	69	0.0	61	60	1.7	30 - 130	30
% 2-Fluorophenol	58	%	70	69	1.4	62	58	6.7	30 - 130	30
% Nitrobenzene-d5	67	%	67	69	2.9	68	69	1.5	30 - 130	30
% Phenol-d5	63	%	75	73	2.7	71	69	2.9	30 - 130	30
% Terphenyl-d14	58	%	60	60	0.0	87	89	2.3	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 701761 (ug/kg), QC Sample No: CP25695 (CP23154)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	98	101	3.0	97	104	7.0	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	89	92	3.3	87	94	7.7	40 - 140	30
1,2-Dichlorobenzene	ND	180	75	80	6.5	70	72	2.8	40 - 140	30
1,2-Diphenylhydrazine	ND	230	85	84	1.2	80	90	11.8	40 - 140	30
1,3-Dichlorobenzene	ND	230	70	76	8.2	66	69	4.4	40 - 140	30
1,4-Dichlorobenzene	ND	230	73	76	4.0	66	70	5.9	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	63	67	6.2	62	59	5.0	40 - 140	30
2,4,5-Trichlorophenol	ND	230	93	94	1.1	89	107	18.4	40 - 140	30
2,4,6-Trichlorophenol	ND	130	90	92	2.2	91	105	14.3	30 - 130	30
2,4-Dichlorophenol	ND	130	96	99	3.1	91	104	13.3	30 - 130	30
2,4-Dimethylphenol	ND	230	97	99	2.0	91	102	11.4	30 - 130	30
2,4-Dinitrophenol	ND	230	100	80	22.2	87	80	8.4	30 - 130	30
2,4-Dinitrotoluene	ND	130	104	103	1.0	97	109	11.7	30 - 130	30
2,6-Dinitrotoluene	ND	130	94	95	1.1	91	102	11.4	40 - 140	30
2-Chloronaphthalene	ND	230	85	89	4.6	84	94	11.2	40 - 140	30
2-Chlorophenol	ND	230	80	86	7.2	83	85	2.4	30 - 130	30
2-Methylnaphthalene	ND	230	87	93	6.7	89	95	6.5	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	80	84	4.9	81	80	1.2	40 - 140	30

QA/QC Data

SDG I.D.: GCP23152

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
2-Nitroaniline	ND	330	107	105	1.9	97	107	9.8	40 - 140	30
2-Nitrophenol	ND	230	99	104	4.9	93	103	10.2	40 - 140	30
3&4-Methylphenol (m&p-cresol)	ND	230	80	85	6.1	83	83	0.0	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	81	87	7.1	81	86	6.0	40 - 140	30
3-Nitroaniline	ND	330	96	99	3.1	86	91	5.6	40 - 140	30
4,6-Dinitro-2-methylphenol	ND	230	111	105	5.6	97	105	7.9	30 - 130	30
4-Bromophenyl phenyl ether	ND	230	101	104	2.9	96	105	9.0	40 - 140	30
4-Chloro-3-methylphenol	ND	230	97	103	6.0	97	107	9.8	30 - 130	30
4-Chloroaniline	ND	230	74	83	11.5	64	64	0.0	40 - 140	30
4-Chlorophenyl phenyl ether	ND	230	96	95	1.0	91	105	14.3	40 - 140	30
4-Nitroaniline	ND	230	81	83	2.4	77	88	13.3	40 - 140	30
4-Nitrophenol	ND	230	74	73	1.4	76	88	14.6	30 - 130	30
Acenaphthene	ND	230	83	85	2.4	81	90	10.5	30 - 130	30
Acenaphthylene	ND	130	79	80	1.3	77	85	9.9	40 - 140	30
Acetophenone	ND	230	76	81	6.4	77	75	2.6	40 - 140	30
Aniline	ND	330	63	71	11.9	60	57	5.1	40 - 140	30
Anthracene	ND	230	90	92	2.2	82	95	14.7	40 - 140	30
Benz(a)anthracene	ND	230	84	84	0.0	77	94	19.9	40 - 140	30
Benzidine	ND	330	90	85	5.7	52	42	21.3	40 - 140	30
Benzo(a)pyrene	ND	130	93	93	0.0	84	97	14.4	40 - 140	30
Benzo(b)fluoranthene	ND	160	84	83	1.2	81	98	19.0	40 - 140	30
Benzo(ghi)perylene	ND	230	90	87	3.4	72	76	5.4	40 - 140	30
Benzo(k)fluoranthene	ND	230	82	80	2.5	70	90	25.0	40 - 140	30
Benzoic Acid	ND	670	64	54	16.9	70	60	15.4	30 - 130	30
Benzyl butyl phthalate	ND	230	86	89	3.4	79	94	17.3	40 - 140	30
Bis(2-chloroethoxy)methane	ND	230	83	87	4.7	79	83	4.9	40 - 140	30
Bis(2-chloroethyl)ether	ND	130	62	72	14.9	64	63	1.6	40 - 140	30
Bis(2-ethylhexyl)phthalate	ND	230	88	90	2.2	85	96	12.2	40 - 140	30
Carbazole	ND	230	91	93	2.2	87	100	13.9	40 - 140	30
Chrysene	ND	230	91	90	1.1	80	91	12.9	40 - 140	30
Dibenz(a,h)anthracene	ND	130	89	86	3.4	76	80	5.1	40 - 140	30
Dibenzofuran	ND	230	88	89	1.1	84	95	12.3	40 - 140	30
Diethyl phthalate	ND	230	95	95	0.0	88	101	13.8	40 - 140	30
Dimethylphthalate	ND	230	92	92	0.0	86	96	11.0	40 - 140	30
Di-n-butylphthalate	ND	670	95	99	4.1	90	101	11.5	40 - 140	30
Di-n-octylphthalate	ND	230	86	87	1.2	86	93	7.8	40 - 140	30
Fluoranthene	ND	230	97	100	3.0	73	101	32.2	40 - 140	30
Fluorene	ND	230	89	88	1.1	85	102	18.2	40 - 140	30
Hexachlorobenzene	ND	130	97	96	1.0	93	100	7.3	40 - 140	30
Hexachlorobutadiene	ND	230	101	109	7.6	102	106	3.8	40 - 140	30
Hexachlorocyclopentadiene	ND	230	69	69	0.0	54	44	20.4	40 - 140	30
Hexachloroethane	ND	130	74	80	7.8	74	71	4.1	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	86	85	1.2	72	76	5.4	40 - 140	30
Isophorone	ND	130	75	77	2.6	72	75	4.1	40 - 140	30
Naphthalene	ND	230	79	83	4.9	79	84	6.1	40 - 140	30
Nitrobenzene	ND	130	77	83	7.5	77	76	1.3	40 - 140	30
N-Nitrosodimethylamine	ND	230	63	74	16.1	60	52	14.3	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	74	78	5.3	74	72	2.7	40 - 140	30
N-Nitrosodiphenylamine	ND	130	92	91	1.1	86	100	15.1	40 - 140	30
Pentachloronitrobenzene	ND	230	109	111	1.8	106	112	5.5	40 - 140	30
Pentachlorophenol	ND	230	95	100	5.1	94	112	17.5	30 - 130	30
Phenanthrene	ND	130	88	90	2.2	70	88	22.8	40 - 140	30
Phenol	ND	230	91	101	10.4	96	99	3.1	30 - 130	30

QA/QC Data

SDG I.D.: GCP23152

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Pyrene	ND	230	97	101	4.0	78	104	28.6	30 - 130	30
Pyridine	ND	230	17	57	108.1	48	29	49.4	40 - 140	30
% 2,4,6-Tribromophenol	81	%	84	87	3.5	81	85	4.8	30 - 130	30
% 2-Fluorobiphenyl	75	%	79	82	3.7	77	83	7.5	30 - 130	30
% 2-Fluorophenol	69	%	78	84	7.4	81	76	6.4	30 - 130	30
% Nitrobenzene-d5	69	%	76	81	6.4	74	72	2.7	30 - 130	30
% Phenol-d5	71	%	79	86	8.5	85	84	1.2	30 - 130	30
% Terphenyl-d14	93	%	98	103	5.0	88	103	15.7	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 701738 (ug/kg), QC Sample No: CP23562 (CP23152, CP23153, CP23154, CP23156)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	95	92	3.2	92	90	2.2	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	92	92	0.0	89	89	0.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	92	92	0.0	111	103	7.5	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	92	92	0.0	85	87	2.3	70 - 130	30
1,1-Dichloroethane	ND	5.0	93	93	0.0	92	92	0.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	108	111	2.7	110	111	0.9	70 - 130	30
1,1-Dichloropropene	ND	5.0	92	90	2.2	90	88	2.2	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	105	104	1.0	46	41	11.5	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	96	98	2.1	119	111	7.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	102	100	2.0	50	46	8.3	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	93	91	2.2	102	91	11.4	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	82	86	4.8	83	77	7.5	70 - 130	30
1,2-Dibromoethane	ND	5.0	97	97	0.0	95	94	1.1	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	98	96	2.1	87	83	4.7	70 - 130	30
1,2-Dichloroethane	ND	5.0	99	98	1.0	94	96	2.1	70 - 130	30
1,2-Dichloropropane	ND	5.0	93	91	2.2	90	90	0.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	94	92	2.2	108	95	12.8	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	95	93	2.1	92	86	6.7	70 - 130	30
1,3-Dichloropropane	ND	5.0	96	96	0.0	98	97	1.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	98	96	2.1	93	88	5.5	70 - 130	30
1,4-dioxane	ND	100	89	86	3.4	96	93	3.2	70 - 130	30
2,2-Dichloropropane	ND	5.0	91	90	1.1	88	87	1.1	70 - 130	30
2-Chlorotoluene	ND	5.0	94	91	3.2	110	99	10.5	70 - 130	30
2-Hexanone	ND	25	84	87	3.5	68	67	1.5	70 - 130	30
2-Isopropyltoluene	ND	5.0	96	94	2.1	102	89	13.6	70 - 130	30
4-Chlorotoluene	ND	5.0	93	91	2.2	108	97	10.7	70 - 130	30
4-Methyl-2-pentanone	ND	25	87	90	3.4	73	75	2.7	70 - 130	30
Acetone	ND	10	80	85	6.1	19	67	111.6	70 - 130	30
Acrolein	ND	25	104	108	3.8	<10	<10	NC	70 - 130	30
Acrylonitrile	ND	5.0	89	93	4.4	78	78	0.0	70 - 130	30
Benzene	ND	1.0	92	90	2.2	90	88	2.2	70 - 130	30
Bromobenzene	ND	5.0	99	97	2.0	115	106	8.1	70 - 130	30
Bromochloromethane	ND	5.0	93	92	1.1	89	90	1.1	70 - 130	30
Bromodichloromethane	ND	5.0	93	91	2.2	87	87	0.0	70 - 130	30
Bromoform	ND	5.0	89	88	1.1	75	75	0.0	70 - 130	30
Bromomethane	ND	5.0	120	120	0.0	124	125	0.8	70 - 130	30
Carbon Disulfide	ND	5.0	107	109	1.9	101	99	2.0	70 - 130	30
Carbon tetrachloride	ND	5.0	86	102	17.0	82	82	0.0	70 - 130	30
Chlorobenzene	ND	5.0	98	96	2.1	96	92	4.3	70 - 130	30

QA/QC Data

SDG I.D.: GCP23152

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chloroethane	ND	5.0	114	113	0.9	117	122	4.2	70 - 130	30
Chloroform	ND	5.0	93	93	0.0	91	91	0.0	70 - 130	30
Chloromethane	ND	5.0	88	90	2.2	88	89	1.1	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	93	92	1.1	90	90	0.0	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	92	90	2.2	83	83	0.0	70 - 130	30
Dibromochloromethane	ND	3.0	91	90	1.1	86	86	0.0	70 - 130	30
Dibromomethane	ND	5.0	97	96	1.0	90	91	1.1	70 - 130	30
Dichlorodifluoromethane	ND	5.0	94	97	3.1	96	96	0.0	70 - 130	30
Ethylbenzene	ND	1.0	93	92	1.1	94	89	5.5	70 - 130	30
Hexachlorobutadiene	ND	5.0	97	93	4.2	60	45	28.6	70 - 130	30
Isopropylbenzene	ND	1.0	93	92	1.1	119	104	13.5	70 - 130	30
m&p-Xylene	ND	2.0	95	94	1.1	95	90	5.4	70 - 130	30
Methyl ethyl ketone	ND	5.0	77	79	2.6	72	70	2.8	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	95	95	0.0	92	94	2.2	70 - 130	30
Methylene chloride	ND	5.0	104	105	1.0	105	106	0.9	70 - 130	30
Naphthalene	ND	5.0	104	107	2.8	60	53	12.4	70 - 130	30
n-Butylbenzene	ND	1.0	91	89	2.2	89	74	18.4	70 - 130	30
n-Propylbenzene	ND	1.0	92	91	1.1	113	98	14.2	70 - 130	30
o-Xylene	ND	2.0	93	91	2.2	90	86	4.5	70 - 130	30
p-Isopropyltoluene	ND	1.0	93	91	2.2	99	85	15.2	70 - 130	30
sec-Butylbenzene	ND	1.0	92	91	1.1	102	87	15.9	70 - 130	30
Styrene	ND	5.0	92	90	2.2	85	82	3.6	70 - 130	30
tert-butyl alcohol	ND	100	98	96	2.1	103	98	5.0	70 - 130	30
tert-Butylbenzene	ND	1.0	94	93	1.1	110	95	14.6	70 - 130	30
Tetrachloroethene	ND	5.0	93	92	1.1	87	83	4.7	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	87	90	3.4	80	80	0.0	70 - 130	30
Toluene	ND	1.0	90	88	2.2	86	84	2.4	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	97	97	0.0	96	97	1.0	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	92	91	1.1	81	82	1.2	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	87	89	2.3	97	88	9.7	70 - 130	30
Trichloroethene	ND	5.0	98	97	1.0	94	92	2.2	70 - 130	30
Trichlorofluoromethane	ND	5.0	115	117	1.7	118	119	0.8	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	117	118	0.9	118	116	1.7	70 - 130	30
Vinyl chloride	ND	5.0	96	98	2.1	98	98	0.0	70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	97	98	1.0	93	94	1.1	70 - 130	30
% Bromofluorobenzene	94	%	95	95	0.0	86	88	2.3	70 - 130	30
% Dibromofluoromethane	99	%	99	101	2.0	98	100	2.0	70 - 130	30
% Toluene-d8	98	%	96	96	0.0	94	94	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 701738H (ug/kg), QC Sample No: CP23562 50X (CP23155 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	94	95	1.1	91	92	1.1	70 - 130	30
1,1,1-Trichloroethane	ND	250	91	93	2.2	91	89	2.2	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	95	98	3.1	91	93	2.2	70 - 130	30
1,1,2-Trichloroethane	ND	250	93	95	2.1	93	91	2.2	70 - 130	30
1,1-Dichloroethane	ND	250	94	94	0.0	94	89	5.5	70 - 130	30
1,1-Dichloroethene	ND	250	108	107	0.9	115	102	12.0	70 - 130	30
1,1-Dichloropropene	ND	250	94	96	2.1	94	93	1.1	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	116	118	1.7	102	109	6.6	70 - 130	30
1,2,3-Trichloropropane	ND	250	97	101	4.0	95	87	8.8	70 - 130	30

QA/QC Data

SDG I.D.: GCP23152

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4-Trichlorobenzene	ND	250	115	119	3.4	106	112	5.5	70 - 130	30	
1,2,4-Trimethylbenzene	ND	250	95	97	2.1	95	94	1.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	250	82	85	3.6	79	77	2.6	70 - 130	30	
1,2-Dibromoethane	ND	250	98	99	1.0	98	96	2.1	70 - 130	30	
1,2-Dichlorobenzene	ND	250	103	104	1.0	101	102	1.0	70 - 130	30	
1,2-Dichloroethane	ND	250	100	101	1.0	99	98	1.0	70 - 130	30	
1,2-Dichloropropane	ND	250	94	95	1.1	93	91	2.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	250	96	97	1.0	95	95	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	250	99	101	2.0	97	99	2.0	70 - 130	30	
1,3-Dichloropropane	ND	250	97	99	2.0	98	97	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	250	102	104	1.9	101	102	1.0	70 - 130	30	
1,4-dioxane	ND	5000	88	90	2.2	89	92	3.3	70 - 130	30	
2,2-Dichloropropane	ND	250	90	91	1.1	89	86	3.4	70 - 130	30	
2-Chlorotoluene	ND	250	95	96	1.0	95	94	1.1	70 - 130	30	
2-Hexanone	ND	1300	85	89	4.6	83	84	1.2	70 - 130	30	
2-Isopropyltoluene	ND	250	97	99	2.0	96	97	1.0	70 - 130	30	
4-Chlorotoluene	ND	250	96	98	2.1	95	96	1.0	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	87	90	3.4	87	85	2.3	70 - 130	30	
Acetone	ND	500	60	64	6.5	68	59	14.2	70 - 130	30	I,m
Acrolein	ND	1300	104	105	1.0	104	95	9.0	70 - 130	30	
Acrylonitrile	ND	250	87	90	3.4	88	81	8.3	70 - 130	30	
Benzene	ND	250	92	94	2.2	92	91	1.1	70 - 130	30	
Bromobenzene	ND	250	101	102	1.0	100	99	1.0	70 - 130	30	
Bromochloromethane	ND	250	92	92	0.0	93	88	5.5	70 - 130	30	
Bromodichloromethane	ND	250	92	93	1.1	90	88	2.2	70 - 130	30	
Bromoform	ND	250	88	88	0.0	81	82	1.2	70 - 130	30	
Bromomethane	ND	250	68	70	2.9	79	69	13.5	70 - 130	30	I,m
Carbon Disulfide	ND	250	104	103	1.0	109	98	10.6	70 - 130	30	
Carbon tetrachloride	ND	250	87	87	0.0	81	80	1.2	70 - 130	30	
Chlorobenzene	ND	250	99	100	1.0	101	99	2.0	70 - 130	30	
Chloroethane	ND	250	29	29	0.0	36	28	25.0	70 - 130	30	I,m
Chloroform	ND	250	93	94	1.1	94	90	4.3	70 - 130	30	
Chloromethane	ND	250	92	91	1.1	89	85	4.6	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	93	93	0.0	93	89	4.4	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	92	93	1.1	89	89	0.0	70 - 130	30	
Dibromochloromethane	ND	150	89	90	1.1	86	88	2.3	70 - 130	30	
Dibromomethane	ND	250	97	98	1.0	96	95	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	250	94	95	1.1	93	87	6.7	70 - 130	30	
Ethylbenzene	ND	250	95	96	1.0	97	95	2.1	70 - 130	30	
Hexachlorobutadiene	ND	250	106	109	2.8	102	105	2.9	70 - 130	30	
Isopropylbenzene	ND	250	93	96	3.2	93	93	0.0	70 - 130	30	
m&p-Xylene	ND	250	98	99	1.0	100	98	2.0	70 - 130	30	
Methyl ethyl ketone	ND	250	74	78	5.3	80	74	7.8	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	95	96	1.0	95	90	5.4	70 - 130	30	
Methylene chloride	ND	250	103	103	0.0	106	99	6.8	70 - 130	30	
Naphthalene	ND	250	110	114	3.6	96	102	6.1	70 - 130	30	
n-Butylbenzene	ND	250	98	100	2.0	97	97	0.0	70 - 130	30	
n-Propylbenzene	ND	250	95	97	2.1	94	95	1.1	70 - 130	30	
o-Xylene	ND	250	93	95	2.1	95	93	2.1	70 - 130	30	
p-Isopropyltoluene	ND	250	97	98	1.0	96	96	0.0	70 - 130	30	
sec-Butylbenzene	ND	250	95	97	2.1	94	95	1.1	70 - 130	30	
Styrene	ND	250	94	95	1.1	95	94	1.1	70 - 130	30	
tert-butyl alcohol	ND	5000	95	97	2.1	90	94	4.3	70 - 130	30	

QA/QC Data

SDG I.D.: GCP23152

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
tert-Butylbenzene	ND	250	94	96	2.1	94	94	0.0	70 - 130	30
Tetrachloroethene	ND	250	96	98	2.1	96	97	1.0	70 - 130	30
Tetrahydrofuran (THF)	ND	250	85	87	2.3	86	79	8.5	70 - 130	30
Toluene	ND	250	91	93	2.2	91	90	1.1	70 - 130	30
trans-1,2-Dichloroethene	ND	250	99	99	0.0	99	95	4.1	70 - 130	30
trans-1,3-Dichloropropene	ND	250	92	93	1.1	90	89	1.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	87	90	3.4	83	84	1.2	70 - 130	30
Trichloroethene	ND	250	97	99	2.0	99	98	1.0	70 - 130	30
Trichlorofluoromethane	ND	250	15	15	0.0	21	15	33.3	70 - 130	30
Trichlorotrifluoroethane	ND	250	113	112	0.9	123	108	13.0	70 - 130	30
Vinyl chloride	ND	250	89	90	1.1	92	84	9.1	70 - 130	30
% 1,2-dichlorobenzene-d4	97	%	99	99	0.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	94	%	96	95	1.0	96	95	1.0	70 - 130	30
% Dibromofluoromethane	94	%	100	100	0.0	99	97	2.0	70 - 130	30
% Toluene-d8	98	%	96	96	0.0	95	96	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

October 23, 2023

Monday, October 23, 2023

Criteria: NY: 375, 375GWP, 375RRS

State: NY

Sample Criteria Exceedances Report

GCP23152 - BRUSSEE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CP23152	\$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	23	11	3.3	3.3	ug/Kg
CP23152	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	13	11	3.3	3.3	ug/Kg
CP23152	\$PESTSM_NY	a-Chlordane	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	140	18	94	94	ug/Kg
CP23152	\$PESTSM_NY	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	7.2	5	5	ug/Kg
CP23152	\$PESTSM_NY	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	17	7.2	5	5	ug/Kg
CP23152	\$PESTSM_NY	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	18	14	14	ug/Kg
CP23152	\$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	7.2	3.3	3.3	ug/Kg
CP23152	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	103	0.32	30	30	mg/Kg
CP23153	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2000	270	1700	1700	ug/Kg
CP23153	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1600	270	1000	1000	ug/Kg
CP23153	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1700	270	1000	1000	ug/Kg
CP23153	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1000	270	500	500	ug/Kg
CP23153	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	2000	270	1000	1000	ug/Kg
CP23153	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1700	190	1000	1000	ug/Kg
CP23153	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1600	270	1000	1000	ug/Kg
CP23153	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2000	270	1000	1000	ug/Kg
CP23153	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1600	270	1000	1000	ug/Kg
CP23153	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1700	270	1000	1000	ug/Kg
CP23153	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1000	270	500	500	ug/Kg
CP23153	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1700	190	1000	1000	ug/Kg
CP23153	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	3.17	0.39	2.5	2.5	mg/Kg
CP23153	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	159	7.9	50	50	mg/kg
CP23153	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.24	0.03	0.18	0.18	mg/Kg
CP23153	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	43.6	0.39	30	30	mg/Kg
CP23153	PB-SMDP	Lead	NY / 375-6.8 Metals / Ground Water Protection	2110	79	450	450	mg/Kg
CP23153	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	2110	79	400	400	mg/Kg
CP23153	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	2110	79	63	63	mg/Kg
CP23153	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	304	7.9	109	109	mg/Kg
CP23154	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1400	270	1000	1000	ug/Kg
CP23154	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1400	270	1000	1000	ug/Kg
CP23154	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1400	270	1000	1000	ug/Kg
CP23154	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	190	1000	1000	ug/Kg
CP23154	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1600	270	1000	1000	ug/Kg
CP23154	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	590	270	500	500	ug/Kg
CP23154	\$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	270	1000	1000	ug/Kg
CP23154	\$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	190	1000	1000	ug/Kg
CP23154	\$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1600	270	1000	1000	ug/Kg
CP23154	\$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	270	1000	1000	ug/Kg
CP23154	\$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	590	270	500	500	ug/Kg
CP23154	\$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	9.2	2.3	3.3	3.3	ug/Kg

Monday, October 23, 2023

Criteria: NY: 375, 375GWP, 375RRS

State: NY

Sample Criteria Exceedances Report

GCP23152 - BRUSSEE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CP23154	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	148	0.7	50	50	mg/kg
CP23154	PB-SMDP	Lead	NY / 375-6.8 Metals / Ground Water Protection	2220	71	450	450	mg/Kg
CP23154	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	2220	71	400	400	mg/Kg
CP23154	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	2220	71	63	63	mg/Kg
CP23154	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	291	7.1	109	109	mg/Kg
CP23155	\$8260MADPR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Ground Water Protection	ND	25	20	20	ug/Kg
CP23155	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Ground Water Protection	ND	250	50	50	ug/Kg
CP23155	\$8260MADPR	Methylene chloride	NY / 375-6.8 Volatiles / Ground Water Protection	ND	100	50	50	ug/Kg
CP23155	\$8260MADPR	Vinyl chloride	NY / 375-6.8 Volatiles / Ground Water Protection	ND	25	20	20	ug/Kg
CP23155	\$8260MADPR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	25	20	20	ug/Kg
CP23155	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	50	50	ug/Kg
CP23155	\$8260MADPR	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	100	50	50	ug/Kg
CP23155	\$8260MADPR	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	25	20	20	ug/Kg
CP23155	\$DIOX_SMR	1,4-dioxane	NY / 375-6.8 Volatiles / Ground Water Protection	ND	2000	100	100	ug/kg
CP23155	\$DIOX_SMR	1,4-dioxane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	2000	100	100	ug/kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

October 23, 2023

SDG I.D.: GCP23152

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

PEST Narration

AU-ECD33 10/16/23-1: CP23152, CP23153, CP23154

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CP23153, CP23154

Preceding CC O16B017 - b-BHC 23%H (20%), d-BHC 28%H (20%)

Succeeding CC O16B031 - None.

Samples: CP23152

Preceding CC O16B031 - None.

Succeeding CC O16B045 - b-BHC 22%H (20%), d-BHC 23%H (20%)

SVOA Narration

CHEM19 10/12/23-1: CP23152, CP23153

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.093 (0.1), Hexachlorobenzene 0.096 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.095 (0.1), Hexachlorobenzene 0.098 (0.1)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM28 10/13/23-1: CP23154

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.057 (0.1), Hexachlorobenzene 0.075 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: 2-Nitroaniline 32%L (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.066 (0.1), Hexachlorobenzene 0.079 (0.1)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

VOA Narration

CHEM03 10/12/23-2: CP23152, CP23153, CP23154, CP23155, CP23156



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Analysis Comments

October 23, 2023

SDG I.D.: GCP23152

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 30% (20%), Chloroethane 22% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: Acrolein 0.048 (0.05), Tetrachloroethene 0.197 (0.2)

The following Initial Calibration compounds did not meet minimum response factors: Acrolein 0.048 (0.05)

The following Continuing Calibration compounds did not meet recommended response factors: Acrolein 0.045 (0.05)

The following Continuing Calibration compounds did not meet minimum response factors: Acrolein 0.048 (0.05)

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.



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NY Temperature Narration

October 23, 2023

SDG I.D.: GCP23152

The samples in this delivery group were received at 1.9°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Sarah Bell

From: Pat Recio <precio@brusseecorp.com>
Sent: Thursday, October 12, 2023 8:05 AM
To: Sarah Bell
Cc: Thomas Gallo; Kevin Brussee
Subject: FW: Phoenix Labs - GCP23152, 28 PUTNAM AVENUE - COC Acknowledgement
Attachments: Sample Acknowledgement.pdf

Good Morning Sarah,

For the two samples on the GCP23152 data set can you please change the names of the samples as follows:

SB1 (0-2 bcg)
SB2 (0-2 bcg)

Thank you,

Patrick Recio
Senior Project Manager
BRUSSEE
Environmental Corp.
516-220-2997

From: SampleReceiving@phoenixlabs.com <SampleReceiving@phoenixlabs.com>
Sent: Wednesday, October 11, 2023 9:29 PM
To: Pat Recio <precio@brusseecorp.com>
Subject: Phoenix Labs - GCP23152, 28 PUTNAM AVENUE - COC Acknowledgement

This is an automated sample acknowledgement.

****Due to a high volume of sample receipts, the laboratory is currently on extended turnaround time for jobs that contain metals analysis. Check with Client Services or account manager for an accurate assessment of the lab's current turnaround time and to confirm if you would like to receive data as it becomes available.****

If you were issued a Phoenix Price Quote # for this SDG and it was not listed on the chain, please email client services with the quote number so we can ensure proper invoicing. If no quote was issued, no further action is required.

If you have a PO# that is required for this SDG, and you need it listed on your invoice please email client services so we can be sure to get the PO# listed on the invoice. If no PO# is required, no further action is required.

Samples Will Be Disposed After: 30 Days

GCP23152 Criteria:

SOIL(5): NY 375 (375 Unrestricted), NY 375GWP (375 Soil GWP), NY 375RRS (375 Residential Restricted)

Please email client services only if you require criteria different than what is listed. Criteria added post-reporting requires re-evaluation of data and possible re-analysis therefore charges may apply. Project objectives not communicated at time of submittal may not be achieved.

Delivery group GCP23152 (28 PUTNAM AVENUE) has been logged in for the following samples:

Phoenix Id	Client Id
CP23152	SB1 (0-2)
CP23153	SB2 (0-2)
CP23154	SOIL DUPLICATE
CP23155	TB HL
CP23156	TB LL

This SDG has been logged in for Standard 7 business day turn-around time.

The samples in this delivery group were received at 1.9°C. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)

If there are any questions regarding this submittal, please call Phoenix Client Services at extension 200.

Thank you for your business,

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.

cc:'d:kbrussee@brusseeecorp.com;ethan@phoenixlabs.com;creilly@brusseeecorp.com;maryam@phoenixlabs.com;tgallo@brusseeecorp.com;skoumides@brusseeecorp.com;bgarcia@brusseeecorp.com;iboch@brusseeecorp.com;recio@brusseeecorp.com;pnealon@brusseeecorp.com;mspeakman@brusseeecorp.com;cnichol@brusseeecorp.com



Monday, October 30, 2023

Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Project ID: 28 PUTNAM AVE
SDG ID: GCP22077
Sample ID#s: CP22077 - CP22082

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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SDG Comments

October 30, 2023

SDG I.D.: GCP22077

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.



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Sample Id Cross Reference

October 30, 2023

SDG I.D.: GCP22077

Project ID: 28 PUTNAM AVE

Client Id	Lab Id	Matrix
SB3 (0-2)	CP22077	SOIL
SB3 (4-6)	CP22078	SOIL
SB4 (0-2)	CP22079	SOIL
SB4 (10-12)	CP22080	SOIL
TRIP BLANK HL	CP22081	SOIL
TRIP BLANK LL	CP22082	SOIL



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Analysis Report

October 30, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Sample Information

Matrix: SOIL
Location Code: BRUSSEE
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

10/09/23
10/10/23

Time

9:30
17:18

Laboratory Data

SDG ID: GCP22077
Phoenix ID: CP22077

Project ID: 28 PUTNAM AVE
Client ID: SB3 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40		mg/Kg	1	10/18/23	TH	SW6010D
Aluminum	9060	40		mg/Kg	10	10/18/23	TH	SW6010D
Arsenic	4.26	0.79		mg/Kg	1	10/18/23	TH	SW6010D
Barium	46.3	0.8		mg/Kg	1	10/18/23	TH	SW6010D
Beryllium	0.41	0.32		mg/Kg	1	10/18/23	TH	SW6010D
Calcium	15100	40		mg/Kg	10	10/18/23	TH	SW6010D
Cadmium	1.23	0.40		mg/Kg	1	10/18/23	TH	SW6010D
Cobalt	7.41	0.40		mg/Kg	1	10/18/23	TH	SW6010D
Chromium	17.5	0.40		mg/Kg	1	10/18/23	TH	SW6010D
Copper	23.7	0.8		mg/kg	1	10/18/23	TH	SW6010D
Iron	26300	40		mg/Kg	10	10/18/23	TH	SW6010D
Mercury	< 0.04	0.04		mg/Kg	2	10/13/23	AL1	SW7471B
Potassium	1280	79		mg/Kg	10	10/18/23	TH	SW6010D
Magnesium	5380	4.0		mg/Kg	1	10/18/23	TH	SW6010D
Manganese	256	0.40		mg/Kg	1	10/18/23	TH	SW6010D
Sodium	207	8		mg/Kg	1	10/18/23	TH	SW6010D
Nickel	14.8	0.40		mg/Kg	1	10/18/23	TH	SW6010D
Lead	40.0	0.8		mg/Kg	1	10/18/23	TH	SW6010D
Antimony	< 4.0	4.0		mg/Kg	1	10/18/23	TH	SW6010D
Selenium	< 1.6	1.6		mg/Kg	1	10/18/23	TH	SW6010D
Thallium	< 1.6	1.6		mg/Kg	1	10/18/23	TH	SW6010D
Vanadium	22.7	0.40		mg/Kg	1	10/18/23	TH	SW6010D
Zinc	44.6	0.8		mg/Kg	1	10/18/23	TH	SW6010D
Percent Solid	75			%		10/10/23	CV	SW846-%Solid
Field Extraction	Completed					10/09/23		SW5035A
Mercury Digestion	Completed					10/13/23	AL/AL	SW7471B
Soil Extraction for PCB	Completed					10/12/23	H/JDW	SW3546

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for Pesticides	Completed					10/12/23	H/JDW	SW3546
Soil Extraction for SVOA	Completed					10/11/23	/A	SW3546
Total Metals Digest	Completed					10/11/23	Y/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	87	87	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1221	ND	87	87	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1232	ND	87	87	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1242	ND	87	87	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1248	ND	87	87	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1254	ND	87	87	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1260	ND	87	87	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1262	ND	87	87	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1268	ND	87	87	ug/Kg	2	10/13/23	SC	SW8082A

QA/QC Surrogates

% DCBP	62			%	2	10/13/23	SC	30 - 150 %
% DCBP (Confirmation)	70			%	2	10/13/23	SC	30 - 150 %
% TCMX	59			%	2	10/13/23	SC	30 - 150 %
% TCMX (Confirmation)	59			%	2	10/13/23	SC	30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	2.6		ug/Kg	2	10/13/23	CN	SW8081B
4,4' -DDE	ND	2.6		ug/Kg	2	10/13/23	CN	SW8081B
4,4' -DDT	ND	2.6		ug/Kg	2	10/13/23	CN	SW8081B
a-BHC	ND	8.7		ug/Kg	2	10/13/23	CN	SW8081B
a-Chlordane	ND	4.4		ug/Kg	2	10/13/23	CN	SW8081B
Aldrin	ND	4.4		ug/Kg	2	10/13/23	CN	SW8081B
b-BHC	ND	8.7		ug/Kg	2	10/13/23	CN	SW8081B
Chlordane	ND	44		ug/Kg	2	10/13/23	CN	SW8081B
d-BHC	ND	8.7		ug/Kg	2	10/13/23	CN	SW8081B
Dieldrin	ND	4.4		ug/Kg	2	10/13/23	CN	SW8081B
Endosulfan I	ND	8.7		ug/Kg	2	10/13/23	CN	SW8081B
Endosulfan II	ND	8.7		ug/Kg	2	10/13/23	CN	SW8081B
Endosulfan sulfate	ND	8.7		ug/Kg	2	10/13/23	CN	SW8081B
Endrin	ND	8.7		ug/Kg	2	10/13/23	CN	SW8081B
Endrin aldehyde	ND	8.7		ug/Kg	2	10/13/23	CN	SW8081B
Endrin ketone	ND	8.7		ug/Kg	2	10/13/23	CN	SW8081B
g-BHC	ND	1.7		ug/Kg	2	10/13/23	CN	SW8081B
g-Chlordane	ND	4.4		ug/Kg	2	10/13/23	CN	SW8081B
Heptachlor	ND	8.7		ug/Kg	2	10/13/23	CN	SW8081B
Heptachlor epoxide	ND	8.7		ug/Kg	2	10/13/23	CN	SW8081B
Methoxychlor	ND	44		ug/Kg	2	10/13/23	CN	SW8081B
Toxaphene	ND	170		ug/Kg	2	10/13/23	CN	SW8081B

QA/QC Surrogates

% DCBP	72			%	2	10/13/23	CN	30 - 150 %
% DCBP (Confirmation)	77			%	2	10/13/23	CN	30 - 150 %
% TCMX	69			%	2	10/13/23	CN	30 - 150 %
% TCMX (Confirmation)	68			%	2	10/13/23	CN	30 - 150 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Volatiles								
1,1,1,2-Tetrachloroethane	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
1,1,1-Trichloroethane	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
1,1,2-Trichloroethane	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
1,1-Dichloroethane	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
1,1-Dichloroethene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
1,1-Dichloropropene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,3-Trichloropropane	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dibromoethane	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dichlorobenzene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dichloroethane	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dichloropropane	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
1,3-Dichlorobenzene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
1,3-Dichloropropane	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
1,4-Dichlorobenzene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
2,2-Dichloropropane	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
2-Chlorotoluene	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
2-Hexanone	ND	36	7.2	ug/Kg	1	10/12/23	JLI	SW8260D
2-Isopropyltoluene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
4-Chlorotoluene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
4-Methyl-2-pentanone	ND	36	7.2	ug/Kg	1	10/12/23	JLI	SW8260D
Acetone	27	JS 36	7.2	ug/Kg	1	10/12/23	JLI	SW8260D
Acrylonitrile	ND	14	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
Benzene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
Bromobenzene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
Bromochloromethane	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
Bromodichloromethane	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
Bromoform	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
Bromomethane	ND	7.2	2.9	ug/Kg	1	10/12/23	JLI	SW8260D
Carbon Disulfide	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
Carbon tetrachloride	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
Chlorobenzene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
Chloroethane	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
Chloroform	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
Chloromethane	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
cis-1,2-Dichloroethene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
cis-1,3-Dichloropropene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
Dibromochloromethane	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
Dibromomethane	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
Dichlorodifluoromethane	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
Ethylbenzene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
Hexachlorobutadiene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
Isopropylbenzene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
Methyl Ethyl Ketone	ND	43	7.2	ug/Kg	1	10/12/23	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	14	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
Methylene chloride	ND	7.2	7.2	ug/Kg	1	10/12/23	JLI	SW8260D
Naphthalene	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
n-Butylbenzene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
n-Propylbenzene	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
o-Xylene	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
p-Isopropyltoluene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
sec-Butylbenzene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
Styrene	0.73	J 7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
tert-Butylbenzene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
Tetrachloroethene	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
Tetrahydrofuran (THF)	ND	14	3.6	ug/Kg	1	10/12/23	JLI	SW8260D
Toluene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
trans-1,2-Dichloroethene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
trans-1,3-Dichloropropene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	14	3.6	ug/Kg	1	10/12/23	JLI	SW8260D
Trichloroethene	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
Trichlorofluoromethane	ND	7.2	1.4	ug/Kg	1	10/12/23	JLI	SW8260D
Trichlorotrifluoroethane	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
Vinyl chloride	ND	7.2	0.72	ug/Kg	1	10/12/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	94			%	1	10/12/23	JLI	70 - 130 %
% Bromofluorobenzene	100			%	1	10/12/23	JLI	70 - 130 %
% Dibromofluoromethane	98			%	1	10/12/23	JLI	70 - 130 %
% Toluene-d8	94			%	1	10/12/23	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	100		ug/kg	1	10/12/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	94			%	1	10/12/23	JLI	70 - 130 %
% Bromofluorobenzene	100			%	1	10/12/23	JLI	70 - 130 %
% Dibromofluoromethane	98			%	1	10/12/23	JLI	70 - 130 %
% Toluene-d8	94			%	1	10/12/23	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	29		ug/Kg	1	10/12/23	JLI	SW8260D
Acrolein	ND	7.2		ug/Kg	1	10/12/23	JLI	SW8260D
Acrylonitrile	ND	29		ug/Kg	1	10/12/23	JLI	SW8260D
Tert-butyl alcohol	ND	140		ug/Kg	1	10/12/23	JLI	SW8260D
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	300	150	ug/Kg	1	10/11/23	AW	SW8270D
1,2,4-Trichlorobenzene	ND	300	130	ug/Kg	1	10/11/23	AW	SW8270D
1,2-Dichlorobenzene	ND	300	120	ug/Kg	1	10/11/23	AW	SW8270D
1,2-Diphenylhydrazine	ND	300	140	ug/Kg	1	10/11/23	AW	SW8270D
1,3-Dichlorobenzene	ND	300	120	ug/Kg	1	10/11/23	AW	SW8270D
1,4-Dichlorobenzene	ND	300	120	ug/Kg	1	10/11/23	AW	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	300	120	ug/Kg	1	10/11/23	AW	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4,5-Trichlorophenol	ND	300	230	ug/Kg	1	10/11/23	AW	SW8270D
2,4,6-Trichlorophenol	ND	210	140	ug/Kg	1	10/11/23	AW	SW8270D
2,4-Dichlorophenol	ND	210	150	ug/Kg	1	10/11/23	AW	SW8270D
2,4-Dimethylphenol	ND	300	100	ug/Kg	1	10/11/23	AW	SW8270D
2,4-Dinitrophenol	ND	300	300	ug/Kg	1	10/11/23	AW	SW8270D
2,4-Dinitrotoluene	ND	210	170	ug/Kg	1	10/11/23	AW	SW8270D
2,6-Dinitrotoluene	ND	210	130	ug/Kg	1	10/11/23	AW	SW8270D
2-Chloronaphthalene	ND	300	120	ug/Kg	1	10/11/23	AW	SW8270D
2-Chlorophenol	ND	300	120	ug/Kg	1	10/11/23	AW	SW8270D
2-Methylnaphthalene	ND	300	130	ug/Kg	1	10/11/23	AW	SW8270D
2-Methylphenol (o-cresol)	ND	300	200	ug/Kg	1	10/11/23	AW	SW8270D
2-Nitroaniline	ND	300	300	ug/Kg	1	10/11/23	AW	SW8270D
2-Nitrophenol	ND	300	270	ug/Kg	1	10/11/23	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	300	170	ug/Kg	1	10/11/23	AW	SW8270D
3,3'-Dichlorobenzidine	ND	210	200	ug/Kg	1	10/11/23	AW	SW8270D
3-Nitroaniline	ND	420	840	ug/Kg	1	10/11/23	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	250	84	ug/Kg	1	10/11/23	AW	SW8270D
4-Bromophenyl phenyl ether	ND	300	120	ug/Kg	1	10/11/23	AW	SW8270D
4-Chloro-3-methylphenol	ND	300	150	ug/Kg	1	10/11/23	AW	SW8270D
4-Chloroaniline	ND	340	200	ug/Kg	1	10/11/23	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	300	140	ug/Kg	1	10/11/23	AW	SW8270D
4-Nitroaniline	ND	420	140	ug/Kg	1	10/11/23	AW	SW8270D
4-Nitrophenol	ND	420	190	ug/Kg	1	10/11/23	AW	SW8270D
Acenaphthene	ND	300	130	ug/Kg	1	10/11/23	AW	SW8270D
Acenaphthylene	ND	300	120	ug/Kg	1	10/11/23	AW	SW8270D
Acetophenone	ND	300	130	ug/Kg	1	10/11/23	AW	SW8270D
Aniline	ND	340	340	ug/Kg	1	10/11/23	AW	SW8270D
Anthracene	ND	300	140	ug/Kg	1	10/11/23	AW	SW8270D
Benz(a)anthracene	ND	300	140	ug/Kg	1	10/11/23	AW	SW8270D
Benzidine	ND	420	250	ug/Kg	1	10/11/23	AW	SW8270D
Benzo(a)pyrene	ND	210	140	ug/Kg	1	10/11/23	AW	SW8270D
Benzo(b)fluoranthene	ND	300	140	ug/Kg	1	10/11/23	AW	SW8270D
Benzo(ghi)perylene	ND	300	140	ug/Kg	1	10/11/23	AW	SW8270D
Benzo(k)fluoranthene	ND	300	140	ug/Kg	1	10/11/23	AW	SW8270D
Benzoic acid	ND	2100	840	ug/Kg	1	10/11/23	AW	SW8270D
Benzyl butyl phthalate	ND	300	110	ug/Kg	1	10/11/23	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	300	120	ug/Kg	1	10/11/23	AW	SW8270D
Bis(2-chloroethyl)ether	ND	210	110	ug/Kg	1	10/11/23	AW	SW8270D
Bis(2-ethylhexyl)phthalate	ND	300	120	ug/Kg	1	10/11/23	AW	SW8270D
Carbazole	ND	210	170	ug/Kg	1	10/11/23	AW	SW8270D
Chrysene	ND	300	140	ug/Kg	1	10/11/23	AW	SW8270D
Dibenz(a,h)anthracene	ND	210	140	ug/Kg	1	10/11/23	AW	SW8270D
Dibenzofuran	ND	300	120	ug/Kg	1	10/11/23	AW	SW8270D
Diethyl phthalate	ND	300	130	ug/Kg	1	10/11/23	AW	SW8270D
Dimethylphthalate	ND	300	130	ug/Kg	1	10/11/23	AW	SW8270D
Di-n-butylphthalate	ND	300	110	ug/Kg	1	10/11/23	AW	SW8270D
Di-n-octylphthalate	ND	300	110	ug/Kg	1	10/11/23	AW	SW8270D
Fluoranthene	ND	300	140	ug/Kg	1	10/11/23	AW	SW8270D
Fluorene	ND	300	140	ug/Kg	1	10/11/23	AW	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	210	120	ug/Kg	1	10/11/23	AW	SW8270D
Hexachlorobutadiene	ND	300	150	ug/Kg	1	10/11/23	AW	SW8270D
Hexachlorocyclopentadiene	ND	300	130	ug/Kg	1	10/11/23	AW	SW8270D
Hexachloroethane	ND	210	130	ug/Kg	1	10/11/23	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	140	ug/Kg	1	10/11/23	AW	SW8270D
Isophorone	ND	210	120	ug/Kg	1	10/11/23	AW	SW8270D
Naphthalene	ND	300	120	ug/Kg	1	10/11/23	AW	SW8270D
Nitrobenzene	ND	210	150	ug/Kg	1	10/11/23	AW	SW8270D
N-Nitrosodimethylamine	ND	300	120	ug/Kg	1	10/11/23	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	210	140	ug/Kg	1	10/11/23	AW	SW8270D
N-Nitrosodiphenylamine	ND	300	160	ug/Kg	1	10/11/23	AW	SW8270D
Pentachloronitrobenzene	ND	300	160	ug/Kg	1	10/11/23	AW	SW8270D
Pentachlorophenol	ND	250	160	ug/Kg	1	10/11/23	AW	SW8270D
Phenanthrene	ND	300	120	ug/Kg	1	10/11/23	AW	SW8270D
Phenol	ND	300	140	ug/Kg	1	10/11/23	AW	SW8270D
Pyrene	ND	300	150	ug/Kg	1	10/11/23	AW	SW8270D
Pyridine	ND	300	100	ug/Kg	1	10/11/23	AW	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	82			%	1	10/11/23	AW	30 - 130 %
% 2-Fluorobiphenyl	79			%	1	10/11/23	AW	30 - 130 %
% 2-Fluorophenol	65			%	1	10/11/23	AW	30 - 130 %
% Nitrobenzene-d5	77			%	1	10/11/23	AW	30 - 130 %
% Phenol-d5	74			%	1	10/11/23	AW	30 - 130 %
% Terphenyl-d14	74			%	1	10/11/23	AW	30 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

October 30, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 30, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Sample Information

Matrix: SOIL
Location Code: BRUSSEE
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

10/09/23
10/10/23

Time

9:35
17:18

Laboratory Data

SDG ID: GCP22077
Phoenix ID: CP22078

Project ID: 28 PUTNAM AVE
Client ID: SB3 (4-6)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34		mg/Kg	1	10/11/23	TH	SW6010D
Aluminum	5740	34		mg/Kg	10	10/11/23	TH	SW6010D
Arsenic	1.47	0.69		mg/Kg	1	10/11/23	TH	SW6010D
Barium	40.8	0.7		mg/Kg	1	10/11/23	TH	SW6010D
Beryllium	0.36	0.27		mg/Kg	1	10/11/23	TH	SW6010D
Calcium	734	3.4		mg/Kg	1	10/11/23	TH	SW6010D
Cadmium	0.86	0.34		mg/Kg	1	10/11/23	TH	SW6010D
Cobalt	4.46	0.34		mg/Kg	1	10/11/23	TH	SW6010D
Chromium	16.9	0.34		mg/Kg	1	10/11/23	TH	SW6010D
Copper	14.4	0.7		mg/kg	1	10/11/23	TH	SW6010D
Iron	22200	34		mg/Kg	10	10/11/23	TH	SW6010D
Mercury	< 0.03	0.03		mg/Kg	2	10/13/23	AL1	SW7471B
Potassium	937	69		mg/Kg	10	10/11/23	TH	SW6010D
Magnesium	1710	3.4		mg/Kg	1	10/11/23	TH	SW6010D
Manganese	239	0.34		mg/Kg	1	10/11/23	TH	SW6010D
Sodium	137	7		mg/Kg	1	10/11/23	TH	SW6010D
Nickel	13.2	0.34		mg/Kg	1	10/11/23	TH	SW6010D
Lead	5.1	0.7		mg/Kg	1	10/11/23	TH	SW6010D
Antimony	< 3.4	3.4		mg/Kg	1	10/11/23	TH	SW6010D
Selenium	< 1.4	1.4		mg/Kg	1	10/11/23	TH	SW6010D
Thallium	< 1.4	1.4		mg/Kg	1	10/11/23	TH	SW6010D
Vanadium	31.8	0.34		mg/Kg	1	10/11/23	TH	SW6010D
Zinc	34.8	0.7		mg/Kg	1	10/11/23	TH	SW6010D
Percent Solid	96			%		10/10/23	CV	SW846-%Solid
Field Extraction	Completed					10/09/23		SW5035A
Mercury Digestion	Completed					10/13/23	AL/AL	SW7471B
Soil Extraction for PCB	Completed					10/12/23	H/JDW	SW3546

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for Pesticides	Completed					10/12/23	H/JDW	SW3546
Soil Extraction for SVOA	Completed					10/11/23	/A	SW3546
Total Metals Digest	Completed					10/10/23	Y/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1221	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1232	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1242	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1248	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1254	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1260	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1262	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1268	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A

QA/QC Surrogates

% DCBP	79			%	2	10/13/23	SC	30 - 150 %
% DCBP (Confirmation)	90			%	2	10/13/23	SC	30 - 150 %
% TCMX	80			%	2	10/13/23	SC	30 - 150 %
% TCMX (Confirmation)	81			%	2	10/13/23	SC	30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	2.1		ug/Kg	2	10/13/23	CN	SW8081B
4,4' -DDE	ND	2.1		ug/Kg	2	10/13/23	CN	SW8081B
4,4' -DDT	ND	2.1		ug/Kg	2	10/13/23	CN	SW8081B
a-BHC	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
a-Chlordane	ND	3.5		ug/Kg	2	10/13/23	CN	SW8081B
Aldrin	ND	3.5		ug/Kg	2	10/13/23	CN	SW8081B
b-BHC	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Chlordane	ND	35		ug/Kg	2	10/13/23	CN	SW8081B
d-BHC	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Dieldrin	ND	3.5		ug/Kg	2	10/13/23	CN	SW8081B
Endosulfan I	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Endosulfan II	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Endosulfan sulfate	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Endrin	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Endrin aldehyde	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Endrin ketone	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
g-BHC	ND	1.4		ug/Kg	2	10/13/23	CN	SW8081B
g-Chlordane	ND	3.5		ug/Kg	2	10/13/23	CN	SW8081B
Heptachlor	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Heptachlor epoxide	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Methoxychlor	ND	35		ug/Kg	2	10/13/23	CN	SW8081B
Toxaphene	ND	140		ug/Kg	2	10/13/23	CN	SW8081B

QA/QC Surrogates

% DCBP	96			%	2	10/13/23	CN	30 - 150 %
% DCBP (Confirmation)	98			%	2	10/13/23	CN	30 - 150 %
% TCMX	99			%	2	10/13/23	CN	30 - 150 %
% TCMX (Confirmation)	89			%	2	10/13/23	CN	30 - 150 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Volatiles								
1,1,1,2-Tetrachloroethane	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,1,1-Trichloroethane	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,1,2-Trichloroethane	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,1-Dichloroethane	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,1-Dichloroethene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
1,1-Dichloropropene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,3-Trichloropropane	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dibromoethane	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dichloroethane	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dichloropropane	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
1,3-Dichloropropane	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
2,2-Dichloropropane	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
2-Chlorotoluene	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
2-Hexanone	ND	30	6.1	ug/Kg	1	10/12/23	JLI	SW8260D
2-Isopropyltoluene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
4-Chlorotoluene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
4-Methyl-2-pentanone	ND	30	6.1	ug/Kg	1	10/12/23	JLI	SW8260D
Acetone	61	S 30	6.1	ug/Kg	1	10/12/23	JLI	SW8260D
Acrylonitrile	ND	12	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Benzene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
Bromobenzene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
Bromochloromethane	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
Bromodichloromethane	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Bromoform	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Bromomethane	ND	6.1	2.4	ug/Kg	1	10/12/23	JLI	SW8260D
Carbon Disulfide	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Carbon tetrachloride	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Chlorobenzene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
Chloroethane	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
Chloroform	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
Chloromethane	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
cis-1,2-Dichloroethene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
cis-1,3-Dichloropropene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
Dibromochloromethane	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Dibromomethane	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Dichlorodifluoromethane	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
Ethylbenzene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
Hexachlorobutadiene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
Isopropylbenzene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Methyl Ethyl Ketone	ND	37	6.1	ug/Kg	1	10/12/23	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	12	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Methylene chloride	ND	6.1	6.1	ug/Kg	1	10/12/23	JLI	SW8260D
Naphthalene	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
n-Butylbenzene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
n-Propylbenzene	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
o-Xylene	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
p-Isopropyltoluene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
sec-Butylbenzene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
Styrene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
tert-Butylbenzene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
Tetrachloroethene	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Tetrahydrofuran (THF)	ND	12	3.0	ug/Kg	1	10/12/23	JLI	SW8260D
Toluene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	12	3.0	ug/Kg	1	10/12/23	JLI	SW8260D
Trichloroethene	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
Trichlorofluoromethane	ND	6.1	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Trichlorotrifluoroethane	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
Vinyl chloride	ND	6.1	0.61	ug/Kg	1	10/12/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	95			%	1	10/12/23	JLI	70 - 130 %
% Bromofluorobenzene	101			%	1	10/12/23	JLI	70 - 130 %
% Dibromofluoromethane	98			%	1	10/12/23	JLI	70 - 130 %
% Toluene-d8	94			%	1	10/12/23	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	91		ug/kg	1	10/12/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	95			%	1	10/12/23	JLI	70 - 130 %
% Bromofluorobenzene	101			%	1	10/12/23	JLI	70 - 130 %
% Dibromofluoromethane	98			%	1	10/12/23	JLI	70 - 130 %
% Toluene-d8	94			%	1	10/12/23	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	24		ug/Kg	1	10/12/23	JLI	SW8260D
Acrolein	ND	6.1		ug/Kg	1	10/12/23	JLI	SW8260D
Acrylonitrile	ND	24		ug/Kg	1	10/12/23	JLI	SW8260D
Tert-butyl alcohol	ND	120		ug/Kg	1	10/12/23	JLI	SW8260D
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	230	120	ug/Kg	1	10/12/23	AW	SW8270D
1,2,4-Trichlorobenzene	ND	230	100	ug/Kg	1	10/12/23	AW	SW8270D
1,2-Dichlorobenzene	ND	230	94	ug/Kg	1	10/12/23	AW	SW8270D
1,2-Diphenylhydrazine	ND	230	110	ug/Kg	1	10/12/23	AW	SW8270D
1,3-Dichlorobenzene	ND	230	99	ug/Kg	1	10/12/23	AW	SW8270D
1,4-Dichlorobenzene	ND	230	99	ug/Kg	1	10/12/23	AW	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	230	93	ug/Kg	1	10/12/23	AW	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4,5-Trichlorophenol	ND	230	180	ug/Kg	1	10/12/23	AW	SW8270D
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	10/12/23	AW	SW8270D
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	10/12/23	AW	SW8270D
2,4-Dimethylphenol	ND	230	83	ug/Kg	1	10/12/23	AW	SW8270D
2,4-Dinitrophenol	ND	230	230	ug/Kg	1	10/12/23	AW	SW8270D
2,4-Dinitrotoluene	ND	170	130	ug/Kg	1	10/12/23	AW	SW8270D
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	10/12/23	AW	SW8270D
2-Chloronaphthalene	ND	230	95	ug/Kg	1	10/12/23	AW	SW8270D
2-Chlorophenol	ND	230	95	ug/Kg	1	10/12/23	AW	SW8270D
2-Methylnaphthalene	ND	230	100	ug/Kg	1	10/12/23	AW	SW8270D
2-Methylphenol (o-cresol)	ND	230	160	ug/Kg	1	10/12/23	AW	SW8270D
2-Nitroaniline	ND	230	230	ug/Kg	1	10/12/23	AW	SW8270D
2-Nitrophenol	ND	230	210	ug/Kg	1	10/12/23	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	230	130	ug/Kg	1	10/12/23	AW	SW8270D
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	10/12/23	AW	SW8270D
3-Nitroaniline	ND	330	670	ug/Kg	1	10/12/23	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	200	67	ug/Kg	1	10/12/23	AW	SW8270D
4-Bromophenyl phenyl ether	ND	230	98	ug/Kg	1	10/12/23	AW	SW8270D
4-Chloro-3-methylphenol	ND	230	120	ug/Kg	1	10/12/23	AW	SW8270D
4-Chloroaniline	ND	270	160	ug/Kg	1	10/12/23	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	230	110	ug/Kg	1	10/12/23	AW	SW8270D
4-Nitroaniline	ND	330	110	ug/Kg	1	10/12/23	AW	SW8270D
4-Nitrophenol	ND	330	150	ug/Kg	1	10/12/23	AW	SW8270D
Acenaphthene	ND	230	100	ug/Kg	1	10/12/23	AW	SW8270D
Acenaphthylene	ND	230	94	ug/Kg	1	10/12/23	AW	SW8270D
Acetophenone	ND	230	100	ug/Kg	1	10/12/23	AW	SW8270D
Aniline	ND	270	270	ug/Kg	1	10/12/23	AW	SW8270D
Anthracene	ND	230	110	ug/Kg	1	10/12/23	AW	SW8270D
Benz(a)anthracene	ND	230	110	ug/Kg	1	10/12/23	AW	SW8270D
Benzidine	ND	330	200	ug/Kg	1	10/12/23	AW	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	10/12/23	AW	SW8270D
Benzo(b)fluoranthene	ND	230	110	ug/Kg	1	10/12/23	AW	SW8270D
Benzo(ghi)perylene	ND	230	110	ug/Kg	1	10/12/23	AW	SW8270D
Benzo(k)fluoranthene	ND	230	110	ug/Kg	1	10/12/23	AW	SW8270D
Benzoic acid	ND	1700	670	ug/Kg	1	10/12/23	AW	SW8270D
Benzyl butyl phthalate	ND	230	86	ug/Kg	1	10/12/23	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	230	92	ug/Kg	1	10/12/23	AW	SW8270D
Bis(2-chloroethyl)ether	ND	170	90	ug/Kg	1	10/12/23	AW	SW8270D
Bis(2-ethylhexyl)phthalate	ND	230	96	ug/Kg	1	10/12/23	AW	SW8270D
Carbazole	ND	170	130	ug/Kg	1	10/12/23	AW	SW8270D
Chrysene	ND	230	110	ug/Kg	1	10/12/23	AW	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	10/12/23	AW	SW8270D
Dibenzofuran	ND	230	98	ug/Kg	1	10/12/23	AW	SW8270D
Diethyl phthalate	ND	230	110	ug/Kg	1	10/12/23	AW	SW8270D
Dimethylphthalate	ND	230	100	ug/Kg	1	10/12/23	AW	SW8270D
Di-n-butylphthalate	ND	230	89	ug/Kg	1	10/12/23	AW	SW8270D
Di-n-octylphthalate	ND	230	86	ug/Kg	1	10/12/23	AW	SW8270D
Fluoranthene	ND	230	110	ug/Kg	1	10/12/23	AW	SW8270D
Fluorene	ND	230	110	ug/Kg	1	10/12/23	AW	SW8270D

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	170	98	ug/Kg	1	10/12/23	AW	SW8270D
Hexachlorobutadiene	ND	230	120	ug/Kg	1	10/12/23	AW	SW8270D
Hexachlorocyclopentadiene	ND	230	100	ug/Kg	1	10/12/23	AW	SW8270D
Hexachloroethane	ND	170	100	ug/Kg	1	10/12/23	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	230	110	ug/Kg	1	10/12/23	AW	SW8270D
Isophorone	ND	170	94	ug/Kg	1	10/12/23	AW	SW8270D
Naphthalene	ND	230	96	ug/Kg	1	10/12/23	AW	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	10/12/23	AW	SW8270D
N-Nitrosodimethylamine	ND	230	94	ug/Kg	1	10/12/23	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	10/12/23	AW	SW8270D
N-Nitrosodiphenylamine	ND	230	130	ug/Kg	1	10/12/23	AW	SW8270D
Pentachloronitrobenzene	ND	230	120	ug/Kg	1	10/12/23	AW	SW8270D
Pentachlorophenol	ND	200	130	ug/Kg	1	10/12/23	AW	SW8270D
Phenanthrene	ND	230	96	ug/Kg	1	10/12/23	AW	SW8270D
Phenol	ND	230	110	ug/Kg	1	10/12/23	AW	SW8270D
Pyrene	ND	230	120	ug/Kg	1	10/12/23	AW	SW8270D
Pyridine	ND	230	82	ug/Kg	1	10/12/23	AW	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	73			%	1	10/12/23	AW	30 - 130 %
% 2-Fluorobiphenyl	70			%	1	10/12/23	AW	30 - 130 %
% 2-Fluorophenol	86			%	1	10/12/23	AW	30 - 130 %
% Nitrobenzene-d5	72			%	1	10/12/23	AW	30 - 130 %
% Phenol-d5	76			%	1	10/12/23	AW	30 - 130 %
% Terphenyl-d14	90			%	1	10/12/23	AW	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

October 30, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 30, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Sample Information

Matrix: SOIL
Location Code: BRUSSEE
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

10/09/23
10/10/23

Time

10:00
17:18

Laboratory Data

SDG ID: GCP22077
Phoenix ID: CP22079

Project ID: 28 PUTNAM AVE
Client ID: SB4 (0-2)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35		mg/Kg	1	10/11/23	TH	SW6010D
Aluminum	7600	35		mg/Kg	10	10/11/23	TH	SW6010D
Arsenic	2.19	0.70		mg/Kg	1	10/11/23	TH	SW6010D
Barium	31.8	0.7		mg/Kg	1	10/11/23	TH	SW6010D
Beryllium	0.37	0.28		mg/Kg	1	10/11/23	TH	SW6010D
Calcium	3060	3.5		mg/Kg	1	10/11/23	TH	SW6010D
Cadmium	0.86	0.35		mg/Kg	1	10/11/23	TH	SW6010D
Cobalt	5.14	0.35		mg/Kg	1	10/11/23	TH	SW6010D
Chromium	17.2	0.35		mg/Kg	1	10/11/23	TH	SW6010D
Copper	17.9	0.7		mg/kg	1	10/11/23	TH	SW6010D
Iron	21100	35		mg/Kg	10	10/11/23	TH	SW6010D
Mercury	< 0.03	0.03		mg/Kg	2	10/13/23	AL1	SW7471B
Potassium	1090	70		mg/Kg	10	10/11/23	TH	SW6010D
Magnesium	2260	3.5		mg/Kg	1	10/11/23	TH	SW6010D
Manganese	242	0.35		mg/Kg	1	10/11/23	TH	SW6010D
Sodium	125	7		mg/Kg	1	10/11/23	TH	SW6010D
Nickel	14.5	0.35		mg/Kg	1	10/11/23	TH	SW6010D
Lead	7.1	0.7		mg/Kg	1	10/11/23	TH	SW6010D
Antimony	< 3.5	3.5		mg/Kg	1	10/11/23	TH	SW6010D
Selenium	< 1.4	1.4		mg/Kg	1	10/11/23	TH	SW6010D
Thallium	< 1.4	1.4		mg/Kg	1	10/11/23	TH	SW6010D
Vanadium	25.4	0.35		mg/Kg	1	10/11/23	TH	SW6010D
Zinc	26.4	0.7		mg/Kg	1	10/11/23	TH	SW6010D
Percent Solid	94			%		10/10/23	CV	SW846-%Solid
Field Extraction	Completed					10/09/23		SW5035A
Mercury Digestion	Completed					10/13/23	AL/AL	SW7471B
Soil Extraction for PCB	Completed					10/12/23	H/JDW	SW3546

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for Pesticides	Completed					10/12/23	H/JDW	SW3546
Soil Extraction for SVOA	Completed					10/11/23	/A	SW3546
Total Metals Digest	Completed					10/10/23	Y/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1221	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1232	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1242	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1248	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1254	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1260	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1262	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1268	ND	69	69	ug/Kg	2	10/13/23	SC	SW8082A

QA/QC Surrogates

% DCBP	76			%	2	10/13/23	SC	30 - 150 %
% DCBP (Confirmation)	87			%	2	10/13/23	SC	30 - 150 %
% TCMX	76			%	2	10/13/23	SC	30 - 150 %
% TCMX (Confirmation)	77			%	2	10/13/23	SC	30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	2.1		ug/Kg	2	10/13/23	CN	SW8081B
4,4' -DDE	ND	2.1		ug/Kg	2	10/13/23	CN	SW8081B
4,4' -DDT	ND	2.1		ug/Kg	2	10/13/23	CN	SW8081B
a-BHC	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
a-Chlordane	ND	3.5		ug/Kg	2	10/13/23	CN	SW8081B
Aldrin	ND	3.5		ug/Kg	2	10/13/23	CN	SW8081B
b-BHC	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Chlordane	ND	35		ug/Kg	2	10/13/23	CN	SW8081B
d-BHC	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Dieldrin	ND	3.5		ug/Kg	2	10/13/23	CN	SW8081B
Endosulfan I	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Endosulfan II	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Endosulfan sulfate	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Endrin	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Endrin aldehyde	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Endrin ketone	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
g-BHC	ND	1.4		ug/Kg	2	10/13/23	CN	SW8081B
g-Chlordane	ND	3.5		ug/Kg	2	10/13/23	CN	SW8081B
Heptachlor	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Heptachlor epoxide	ND	6.9		ug/Kg	2	10/13/23	CN	SW8081B
Methoxychlor	ND	35		ug/Kg	2	10/13/23	CN	SW8081B
Toxaphene	ND	140		ug/Kg	2	10/13/23	CN	SW8081B

QA/QC Surrogates

% DCBP	83			%	2	10/13/23	CN	30 - 150 %
% DCBP (Confirmation)	91			%	2	10/13/23	CN	30 - 150 %
% TCMX	86			%	2	10/13/23	CN	30 - 150 %
% TCMX (Confirmation)	86			%	2	10/13/23	CN	30 - 150 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Volatiles								
1,1,1,2-Tetrachloroethane	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,1,1-Trichloroethane	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,1,2-Trichloroethane	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,1-Dichloroethane	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,1-Dichloroethene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
1,1-Dichloropropene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,3-Trichloropropane	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dibromoethane	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dichloroethane	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
1,2-Dichloropropane	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
1,3-Dichloropropane	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
2,2-Dichloropropane	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
2-Chlorotoluene	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
2-Hexanone	ND	31	6.2	ug/Kg	1	10/12/23	JLI	SW8260D
2-Isopropyltoluene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
4-Chlorotoluene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
4-Methyl-2-pentanone	ND	31	6.2	ug/Kg	1	10/12/23	JLI	SW8260D
Acetone	26	JS 31	6.2	ug/Kg	1	10/12/23	JLI	SW8260D
Acrylonitrile	ND	12	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Benzene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
Bromobenzene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
Bromochloromethane	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
Bromodichloromethane	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Bromoform	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Bromomethane	ND	6.2	2.5	ug/Kg	1	10/12/23	JLI	SW8260D
Carbon Disulfide	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Carbon tetrachloride	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Chlorobenzene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
Chloroethane	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
Chloroform	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
Chloromethane	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
cis-1,2-Dichloroethene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
cis-1,3-Dichloropropene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
Dibromochloromethane	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Dibromomethane	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Dichlorodifluoromethane	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
Ethylbenzene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
Hexachlorobutadiene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
Isopropylbenzene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Methyl Ethyl Ketone	ND	37	6.2	ug/Kg	1	10/12/23	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	12	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Methylene chloride	ND	6.2	6.2	ug/Kg	1	10/12/23	JLI	SW8260D
Naphthalene	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
n-Butylbenzene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
n-Propylbenzene	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
o-Xylene	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
p-Isopropyltoluene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
sec-Butylbenzene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
Styrene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
tert-Butylbenzene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
Tetrachloroethene	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Tetrahydrofuran (THF)	ND	12	3.1	ug/Kg	1	10/12/23	JLI	SW8260D
Toluene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	12	3.1	ug/Kg	1	10/12/23	JLI	SW8260D
Trichloroethene	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
Trichlorofluoromethane	ND	6.2	1.2	ug/Kg	1	10/12/23	JLI	SW8260D
Trichlorotrifluoroethane	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
Vinyl chloride	ND	6.2	0.62	ug/Kg	1	10/12/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	95			%	1	10/12/23	JLI	70 - 130 %
% Bromofluorobenzene	102			%	1	10/12/23	JLI	70 - 130 %
% Dibromofluoromethane	100			%	1	10/12/23	JLI	70 - 130 %
% Toluene-d8	94			%	1	10/12/23	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	93		ug/kg	1	10/12/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	95			%	1	10/12/23	JLI	70 - 130 %
% Bromofluorobenzene	102			%	1	10/12/23	JLI	70 - 130 %
% Dibromofluoromethane	100			%	1	10/12/23	JLI	70 - 130 %
% Toluene-d8	94			%	1	10/12/23	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	25		ug/Kg	1	10/12/23	JLI	SW8260D
Acrolein	ND	6.2		ug/Kg	1	10/12/23	JLI	SW8260D
Acrylonitrile	ND	25		ug/Kg	1	10/12/23	JLI	SW8260D
Tert-butyl alcohol	ND	120		ug/Kg	1	10/12/23	JLI	SW8260D
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	250	120	ug/Kg	1	10/11/23	AW	SW8270D
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	10/11/23	AW	SW8270D
1,2-Dichlorobenzene	ND	250	99	ug/Kg	1	10/11/23	AW	SW8270D
1,2-Diphenylhydrazine	ND	250	110	ug/Kg	1	10/11/23	AW	SW8270D
1,3-Dichlorobenzene	ND	250	100	ug/Kg	1	10/11/23	AW	SW8270D
1,4-Dichlorobenzene	ND	250	100	ug/Kg	1	10/11/23	AW	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	250	98	ug/Kg	1	10/11/23	AW	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	1	10/11/23	AW	SW8270D
2,4,6-Trichlorophenol	ND	180	110	ug/Kg	1	10/11/23	AW	SW8270D
2,4-Dichlorophenol	ND	180	120	ug/Kg	1	10/11/23	AW	SW8270D
2,4-Dimethylphenol	ND	250	87	ug/Kg	1	10/11/23	AW	SW8270D
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	10/11/23	AW	SW8270D
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	10/11/23	AW	SW8270D
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	10/11/23	AW	SW8270D
2-Chloronaphthalene	ND	250	100	ug/Kg	1	10/11/23	AW	SW8270D
2-Chlorophenol	ND	250	100	ug/Kg	1	10/11/23	AW	SW8270D
2-Methylnaphthalene	ND	250	110	ug/Kg	1	10/11/23	AW	SW8270D
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	10/11/23	AW	SW8270D
2-Nitroaniline	ND	250	250	ug/Kg	1	10/11/23	AW	SW8270D
2-Nitrophenol	ND	250	220	ug/Kg	1	10/11/23	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	10/11/23	AW	SW8270D
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	10/11/23	AW	SW8270D
3-Nitroaniline	ND	350	710	ug/Kg	1	10/11/23	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	210	71	ug/Kg	1	10/11/23	AW	SW8270D
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	1	10/11/23	AW	SW8270D
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	1	10/11/23	AW	SW8270D
4-Chloroaniline	ND	280	160	ug/Kg	1	10/11/23	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	10/11/23	AW	SW8270D
4-Nitroaniline	ND	350	120	ug/Kg	1	10/11/23	AW	SW8270D
4-Nitrophenol	ND	350	160	ug/Kg	1	10/11/23	AW	SW8270D
Acenaphthene	ND	250	110	ug/Kg	1	10/11/23	AW	SW8270D
Acenaphthylene	ND	250	99	ug/Kg	1	10/11/23	AW	SW8270D
Acetophenone	ND	250	110	ug/Kg	1	10/11/23	AW	SW8270D
Aniline	ND	280	280	ug/Kg	1	10/11/23	AW	SW8270D
Anthracene	ND	250	120	ug/Kg	1	10/11/23	AW	SW8270D
Benz(a)anthracene	ND	250	120	ug/Kg	1	10/11/23	AW	SW8270D
Benzidine	ND	350	210	ug/Kg	1	10/11/23	AW	SW8270D
Benzo(a)pyrene	ND	180	110	ug/Kg	1	10/11/23	AW	SW8270D
Benzo(b)fluoranthene	ND	250	120	ug/Kg	1	10/11/23	AW	SW8270D
Benzo(ghi)perylene	ND	250	110	ug/Kg	1	10/11/23	AW	SW8270D
Benzo(k)fluoranthene	ND	250	120	ug/Kg	1	10/11/23	AW	SW8270D
Benzoic acid	ND	1800	710	ug/Kg	1	10/11/23	AW	SW8270D
Benzyl butyl phthalate	ND	250	91	ug/Kg	1	10/11/23	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	250	97	ug/Kg	1	10/11/23	AW	SW8270D
Bis(2-chloroethyl)ether	ND	180	95	ug/Kg	1	10/11/23	AW	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	10/11/23	AW	SW8270D
Carbazole	ND	180	140	ug/Kg	1	10/11/23	AW	SW8270D
Chrysene	ND	250	120	ug/Kg	1	10/11/23	AW	SW8270D
Dibenz(a,h)anthracene	ND	180	110	ug/Kg	1	10/11/23	AW	SW8270D
Dibenzofuran	ND	250	100	ug/Kg	1	10/11/23	AW	SW8270D
Diethyl phthalate	ND	250	110	ug/Kg	1	10/11/23	AW	SW8270D
Dimethylphthalate	ND	250	110	ug/Kg	1	10/11/23	AW	SW8270D
Di-n-butylphthalate	ND	250	94	ug/Kg	1	10/11/23	AW	SW8270D
Di-n-octylphthalate	ND	250	91	ug/Kg	1	10/11/23	AW	SW8270D
Fluoranthene	ND	250	110	ug/Kg	1	10/11/23	AW	SW8270D
Fluorene	ND	250	120	ug/Kg	1	10/11/23	AW	SW8270D

1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	180	100	ug/Kg	1	10/11/23	AW	SW8270D
Hexachlorobutadiene	ND	250	130	ug/Kg	1	10/11/23	AW	SW8270D
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	10/11/23	AW	SW8270D
Hexachloroethane	ND	180	110	ug/Kg	1	10/11/23	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	1	10/11/23	AW	SW8270D
Isophorone	ND	180	99	ug/Kg	1	10/11/23	AW	SW8270D
Naphthalene	ND	250	100	ug/Kg	1	10/11/23	AW	SW8270D
Nitrobenzene	ND	180	120	ug/Kg	1	10/11/23	AW	SW8270D
N-Nitrosodimethylamine	ND	250	99	ug/Kg	1	10/11/23	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	180	110	ug/Kg	1	10/11/23	AW	SW8270D
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	10/11/23	AW	SW8270D
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	10/11/23	AW	SW8270D
Pentachlorophenol	ND	210	130	ug/Kg	1	10/11/23	AW	SW8270D
Phenanthrene	ND	250	100	ug/Kg	1	10/11/23	AW	SW8270D
Phenol	ND	250	110	ug/Kg	1	10/11/23	AW	SW8270D
Pyrene	ND	250	120	ug/Kg	1	10/11/23	AW	SW8270D
Pyridine	ND	250	87	ug/Kg	1	10/11/23	AW	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	85			%	1	10/11/23	AW	30 - 130 %
% 2-Fluorobiphenyl	67			%	1	10/11/23	AW	30 - 130 %
% 2-Fluorophenol	64			%	1	10/11/23	AW	30 - 130 %
% Nitrobenzene-d5	68			%	1	10/11/23	AW	30 - 130 %
% Phenol-d5	65			%	1	10/11/23	AW	30 - 130 %
% Terphenyl-d14	61			%	1	10/11/23	AW	30 - 130 %

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

October 30, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 30, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Sample Information

Matrix: SOIL
Location Code: BRUSSEE
Rush Request: 24 Hour
P.O.#:

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

10/09/23
10/10/23

Time

10:05
17:18

Laboratory Data

SDG ID: GCP22077
Phoenix ID: CP22080

Project ID: 28 PUTNAM AVE
Client ID: SB4 (10-12)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33		mg/Kg	1	10/11/23	TH	SW6010D
Aluminum	5370	33		mg/Kg	10	10/11/23	TH	SW6010D
Arsenic	1.74	0.65		mg/Kg	1	10/11/23	TH	SW6010D
Barium	47.6	0.7		mg/Kg	1	10/11/23	TH	SW6010D
Beryllium	0.36	0.26		mg/Kg	1	10/11/23	TH	SW6010D
Calcium	1980	3.3		mg/Kg	1	10/11/23	TH	SW6010D
Cadmium	0.85	0.33		mg/Kg	1	10/11/23	TH	SW6010D
Cobalt	12.8	0.33		mg/Kg	1	10/11/23	TH	SW6010D
Chromium	21.7	0.33		mg/Kg	1	10/11/23	TH	SW6010D
Copper	20.3	0.7		mg/kg	1	10/11/23	TH	SW6010D
Iron	21500	33		mg/Kg	10	10/11/23	TH	SW6010D
Mercury	< 0.03	0.03		mg/Kg	2	10/13/23	AL1	SW7471B
Potassium	1270	65		mg/Kg	10	10/11/23	TH	SW6010D
Magnesium	2390	3.3		mg/Kg	1	10/11/23	TH	SW6010D
Manganese	778	3.3		mg/Kg	10	10/11/23	TH	SW6010D
Sodium	141	7		mg/Kg	1	10/11/23	TH	SW6010D
Nickel	21.5	0.33		mg/Kg	1	10/11/23	TH	SW6010D
Lead	24.1	0.7		mg/Kg	1	10/11/23	TH	SW6010D
Antimony	< 3.3	3.3		mg/Kg	1	10/11/23	TH	SW6010D
Selenium	< 1.3	1.3		mg/Kg	1	10/11/23	TH	SW6010D
Thallium	< 1.3	1.3		mg/Kg	1	10/11/23	TH	SW6010D
Vanadium	28.8	0.33		mg/Kg	1	10/11/23	TH	SW6010D
Zinc	33.6	0.7		mg/Kg	1	10/11/23	TH	SW6010D
Percent Solid	96			%		10/10/23	CV	SW846-%Solid
Extraction for SVOA SIM	Completed					10/25/23	C/F	SW3545A
Field Extraction	Completed					10/09/23		SW5035A
Mercury Digestion	Completed					10/13/23	AL/AL	SW7471B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for PCB	Completed					10/12/23	H/JDW	SW3546
Soil Extraction for Pesticides	Completed					10/12/23	H/JDW	SW3546
Soil Extraction for SVOA	Completed					10/11/23	/A	SW3546
Total Metals Digest	Completed					10/10/23	Y/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	68	68	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1221	ND	68	68	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1232	ND	68	68	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1242	ND	68	68	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1248	ND	68	68	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1254	ND	68	68	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1260	ND	68	68	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1262	ND	68	68	ug/Kg	2	10/13/23	SC	SW8082A
PCB-1268	ND	68	68	ug/Kg	2	10/13/23	SC	SW8082A

QA/QC Surrogates

% DCBP	75			%	2	10/13/23	SC	30 - 150 %
% DCBP (Confirmation)	86			%	2	10/13/23	SC	30 - 150 %
% TCMX	73			%	2	10/13/23	SC	30 - 150 %
% TCMX (Confirmation)	73			%	2	10/13/23	SC	30 - 150 %

Pesticides - Soil

4,4' -DDD	ND	2.0		ug/Kg	2	10/13/23	CN	SW8081B
4,4' -DDE	ND	2.0		ug/Kg	2	10/13/23	CN	SW8081B
4,4' -DDT	ND	2.0		ug/Kg	2	10/13/23	CN	SW8081B
a-BHC	ND	6.8		ug/Kg	2	10/13/23	CN	SW8081B
a-Chlordane	ND	3.4		ug/Kg	2	10/13/23	CN	SW8081B
Aldrin	ND	3.4		ug/Kg	2	10/13/23	CN	SW8081B
b-BHC	ND	6.8		ug/Kg	2	10/13/23	CN	SW8081B
Chlordane	ND	34		ug/Kg	2	10/13/23	CN	SW8081B
d-BHC	ND	6.8		ug/Kg	2	10/13/23	CN	SW8081B
Dieldrin	ND	3.4		ug/Kg	2	10/13/23	CN	SW8081B
Endosulfan I	ND	6.8		ug/Kg	2	10/13/23	CN	SW8081B
Endosulfan II	ND	6.8		ug/Kg	2	10/13/23	CN	SW8081B
Endosulfan sulfate	ND	6.8		ug/Kg	2	10/13/23	CN	SW8081B
Endrin	ND	6.8		ug/Kg	2	10/13/23	CN	SW8081B
Endrin aldehyde	ND	6.8		ug/Kg	2	10/13/23	CN	SW8081B
Endrin ketone	ND	6.8		ug/Kg	2	10/13/23	CN	SW8081B
g-BHC	ND	1.4		ug/Kg	2	10/13/23	CN	SW8081B
g-Chlordane	ND	3.4		ug/Kg	2	10/13/23	CN	SW8081B
Heptachlor	ND	6.8		ug/Kg	2	10/13/23	CN	SW8081B
Heptachlor epoxide	ND	6.8		ug/Kg	2	10/13/23	CN	SW8081B
Methoxychlor	ND	34		ug/Kg	2	10/13/23	CN	SW8081B
Toxaphene	ND	140		ug/Kg	2	10/13/23	CN	SW8081B

QA/QC Surrogates

% DCBP	86			%	2	10/13/23	CN	30 - 150 %
% DCBP (Confirmation)	92			%	2	10/13/23	CN	30 - 150 %
% TCMX	83			%	2	10/13/23	CN	30 - 150 %
% TCMX (Confirmation)	82			%	2	10/13/23	CN	30 - 150 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Volatiles								
1,1,1,2-Tetrachloroethane	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
1,1,1-Trichloroethane	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
1,1,2-Trichloroethane	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
1,1-Dichloroethane	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
1,1-Dichloroethene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
1,1-Dichloropropene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,3-Trichloropropane	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dibromoethane	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dichloroethane	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dichloropropane	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
1,3-Dichloropropane	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
1,4-Dichlorobenzene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
2,2-Dichloropropane	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
2-Chlorotoluene	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
2-Hexanone	ND	31	6.1	ug/Kg	1	10/13/23	JLI	SW8260D
2-Isopropyltoluene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
4-Chlorotoluene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
4-Methyl-2-pentanone	ND	31	6.1	ug/Kg	1	10/13/23	JLI	SW8260D
Acetone	32	S 31	6.1	ug/Kg	1	10/13/23	JLI	SW8260D
Acrylonitrile	ND	12	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
Benzene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
Bromobenzene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
Bromochloromethane	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
Bromodichloromethane	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
Bromoform	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
Bromomethane	ND	6.1	2.5	ug/Kg	1	10/13/23	JLI	SW8260D
Carbon Disulfide	2.8	J 6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
Carbon tetrachloride	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
Chlorobenzene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
Chloroethane	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
Chloroform	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
Chloromethane	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
cis-1,2-Dichloroethene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
cis-1,3-Dichloropropene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
Dibromochloromethane	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
Dibromomethane	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
Dichlorodifluoromethane	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
Ethylbenzene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
Hexachlorobutadiene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
Isopropylbenzene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
Methyl Ethyl Ketone	ND	37	6.1	ug/Kg	1	10/13/23	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	12	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
Methylene chloride	ND	6.1	6.1	ug/Kg	1	10/13/23	JLI	SW8260D
Naphthalene	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
n-Butylbenzene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
n-Propylbenzene	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
o-Xylene	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
p-Isopropyltoluene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
sec-Butylbenzene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
Styrene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
tert-Butylbenzene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
Tetrachloroethene	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
Tetrahydrofuran (THF)	ND	12	3.1	ug/Kg	1	10/13/23	JLI	SW8260D
Toluene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	12	3.1	ug/Kg	1	10/13/23	JLI	SW8260D
Trichloroethene	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
Trichlorofluoromethane	ND	6.1	1.2	ug/Kg	1	10/13/23	JLI	SW8260D
Trichlorotrifluoroethane	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
Vinyl chloride	ND	6.1	0.61	ug/Kg	1	10/13/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	97			%	1	10/13/23	JLI	70 - 130 %
% Bromofluorobenzene	94			%	1	10/13/23	JLI	70 - 130 %
% Dibromofluoromethane	96			%	1	10/13/23	JLI	70 - 130 %
% Toluene-d8	98			%	1	10/13/23	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	92		ug/kg	1	10/13/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	97			%	1	10/13/23	JLI	70 - 130 %
% Bromofluorobenzene	94			%	1	10/13/23	JLI	70 - 130 %
% Dibromofluoromethane	96			%	1	10/13/23	JLI	70 - 130 %
% Toluene-d8	98			%	1	10/13/23	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	25		ug/Kg	1	10/13/23	JLI	SW8260D
Acrolein	ND	6.1		ug/Kg	1	10/13/23	JLI	SW8260D
Acrylonitrile	ND	25		ug/Kg	1	10/13/23	JLI	SW8260D
Tert-butyl alcohol	ND	120		ug/Kg	1	10/13/23	JLI	SW8260D
<u>Semivolatiles</u>								
1,2,4,5-Tetrachlorobenzene	ND	230	120	ug/Kg	1	10/11/23	AW	SW8270D
1,2,4-Trichlorobenzene	ND	230	100	ug/Kg	1	10/11/23	AW	SW8270D
1,2-Dichlorobenzene	ND	230	94	ug/Kg	1	10/11/23	AW	SW8270D
1,2-Diphenylhydrazine	ND	230	110	ug/Kg	1	10/11/23	AW	SW8270D
1,3-Dichlorobenzene	ND	230	99	ug/Kg	1	10/11/23	AW	SW8270D
1,4-Dichlorobenzene	ND	230	99	ug/Kg	1	10/11/23	AW	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	230	93	ug/Kg	1	10/11/23	AW	SW8270D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4,5-Trichlorophenol	ND	230	180	ug/Kg	1	10/11/23	AW	SW8270D
2,4,6-Trichlorophenol	ND	170	110	ug/Kg	1	10/11/23	AW	SW8270D
2,4-Dichlorophenol	ND	170	120	ug/Kg	1	10/11/23	AW	SW8270D
2,4-Dimethylphenol	ND	230	83	ug/Kg	1	10/11/23	AW	SW8270D
2,4-Dinitrophenol	ND	230	230	ug/Kg	1	10/11/23	AW	SW8270D
2,4-Dinitrotoluene	ND	170	130	ug/Kg	1	10/11/23	AW	SW8270D
2,6-Dinitrotoluene	ND	170	110	ug/Kg	1	10/11/23	AW	SW8270D
2-Chloronaphthalene	ND	230	95	ug/Kg	1	10/11/23	AW	SW8270D
2-Chlorophenol	ND	230	95	ug/Kg	1	10/11/23	AW	SW8270D
2-Methylnaphthalene	ND	230	99	ug/Kg	1	10/11/23	AW	SW8270D
2-Methylphenol (o-cresol)	ND	230	160	ug/Kg	1	10/11/23	AW	SW8270D
2-Nitroaniline	ND	230	230	ug/Kg	1	10/11/23	AW	SW8270D
2-Nitrophenol	ND	230	210	ug/Kg	1	10/11/23	AW	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	230	130	ug/Kg	1	10/11/23	AW	SW8270D
3,3'-Dichlorobenzidine	ND	170	160	ug/Kg	1	10/11/23	AW	SW8270D
3-Nitroaniline	ND	330	670	ug/Kg	1	10/11/23	AW	SW8270D
4,6-Dinitro-2-methylphenol	ND	200	67	ug/Kg	1	10/11/23	AW	SW8270D
4-Bromophenyl phenyl ether	ND	230	98	ug/Kg	1	10/11/23	AW	SW8270D
4-Chloro-3-methylphenol	ND	230	120	ug/Kg	1	10/11/23	AW	SW8270D
4-Chloroaniline	ND	270	160	ug/Kg	1	10/11/23	AW	SW8270D
4-Chlorophenyl phenyl ether	ND	230	110	ug/Kg	1	10/11/23	AW	SW8270D
4-Nitroaniline	ND	330	110	ug/Kg	1	10/11/23	AW	SW8270D
4-Nitrophenol	ND	330	150	ug/Kg	1	10/11/23	AW	SW8270D
Acenaphthene	ND	230	100	ug/Kg	1	10/11/23	AW	SW8270D
Acenaphthylene	ND	230	93	ug/Kg	1	10/11/23	AW	SW8270D
Acetophenone	ND	230	100	ug/Kg	1	10/11/23	AW	SW8270D
Aniline	ND	270	270	ug/Kg	1	10/11/23	AW	SW8270D
Anthracene	ND	230	110	ug/Kg	1	10/11/23	AW	SW8270D
Benz(a)anthracene	ND	230	110	ug/Kg	1	10/11/23	AW	SW8270D
Benzidine	ND	330	200	ug/Kg	1	10/11/23	AW	SW8270D
Benzo(a)pyrene	ND	170	110	ug/Kg	1	10/11/23	AW	SW8270D
Benzo(b)fluoranthene	ND	230	110	ug/Kg	1	10/11/23	AW	SW8270D
Benzo(ghi)perylene	ND	230	110	ug/Kg	1	10/11/23	AW	SW8270D
Benzo(k)fluoranthene	ND	230	110	ug/Kg	1	10/11/23	AW	SW8270D
Benzoic acid	ND	1700	670	ug/Kg	1	10/11/23	AW	SW8270D
Benzyl butyl phthalate	ND	230	86	ug/Kg	1	10/11/23	AW	SW8270D
Bis(2-chloroethoxy)methane	ND	230	92	ug/Kg	1	10/11/23	AW	SW8270D
Bis(2-chloroethyl)ether	ND	170	90	ug/Kg	1	10/11/23	AW	SW8270D
Bis(2-ethylhexyl)phthalate	ND	230	96	ug/Kg	1	10/11/23	AW	SW8270D
Carbazole	ND	170	130	ug/Kg	1	10/11/23	AW	SW8270D
Chrysene	ND	230	110	ug/Kg	1	10/11/23	AW	SW8270D
Dibenz(a,h)anthracene	ND	170	110	ug/Kg	1	10/11/23	AW	SW8270D
Dibenzofuran	ND	230	97	ug/Kg	1	10/11/23	AW	SW8270D
Diethyl phthalate	ND	230	110	ug/Kg	1	10/11/23	AW	SW8270D
Dimethylphthalate	ND	230	100	ug/Kg	1	10/11/23	AW	SW8270D
Di-n-butylphthalate	ND	230	89	ug/Kg	1	10/11/23	AW	SW8270D
Di-n-octylphthalate	ND	230	86	ug/Kg	1	10/11/23	AW	SW8270D
Fluoranthene	ND	230	110	ug/Kg	1	10/11/23	AW	SW8270D
Fluorene	ND	230	110	ug/Kg	1	10/11/23	AW	SW8270D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachlorobenzene	ND	170	97	ug/Kg	1	10/11/23	AW	SW8270D
Hexachlorobutadiene	ND	230	120	ug/Kg	1	10/11/23	AW	SW8270D
Hexachlorocyclopentadiene	ND	230	100	ug/Kg	1	10/11/23	AW	SW8270D
Hexachloroethane	ND	170	100	ug/Kg	1	10/11/23	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	230	110	ug/Kg	1	10/11/23	AW	SW8270D
Isophorone	ND	170	93	ug/Kg	1	10/11/23	AW	SW8270D
Naphthalene	ND	230	96	ug/Kg	1	10/11/23	AW	SW8270D
Nitrobenzene	ND	170	120	ug/Kg	1	10/11/23	AW	SW8270D
N-Nitrosodimethylamine	ND	230	94	ug/Kg	1	10/11/23	AW	SW8270D
N-Nitrosodi-n-propylamine	ND	170	110	ug/Kg	1	10/11/23	AW	SW8270D
N-Nitrosodiphenylamine	ND	230	130	ug/Kg	1	10/11/23	AW	SW8270D
Pentachloronitrobenzene	ND	230	120	ug/Kg	1	10/11/23	AW	SW8270D
Pentachlorophenol	ND	200	130	ug/Kg	1	10/11/23	AW	SW8270D
Phenanthrene	ND	230	95	ug/Kg	1	10/11/23	AW	SW8270D
Phenol	ND	230	110	ug/Kg	1	10/11/23	AW	SW8270D
Pyrene	ND	230	110	ug/Kg	1	10/11/23	AW	SW8270D
Pyridine	ND	230	82	ug/Kg	1	10/11/23	AW	SW8270D
<u>QA/QC Surrogates</u>								
% 2,4,6-Tribromophenol	75			%	1	10/11/23	AW	30 - 130 %
% 2-Fluorobiphenyl	62			%	1	10/11/23	AW	30 - 130 %
% 2-Fluorophenol	58			%	1	10/11/23	AW	30 - 130 %
% Nitrobenzene-d5	61			%	1	10/11/23	AW	30 - 130 %
% Phenol-d5	60			%	1	10/11/23	AW	30 - 130 %
% Terphenyl-d14	59			%	1	10/11/23	AW	30 - 130 %
<u>1,4-Dioxane</u>								
1,4-dioxane	ND	69	69	ug/Kg	1	10/27/23	AW	SW8270D (SIM)
<u>QA/QC Surrogates</u>								
% 2-Fluorobiphenyl	79			%	1	10/27/23	AW	30 - 130 %
% Nitrobenzene-d5	83			%	1	10/27/23	AW	30 - 130 %
% Terphenyl-d14	79			%	1	10/27/23	AW	30 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

October 30, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 30, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Sample Information

Matrix: SOIL
Location Code: BRUSSEE
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

10/09/23
10/10/23

Time

17:18

Laboratory Data

SDG ID: GCP22077
Phoenix ID: CP22081

Project ID: 28 PUTNAM AVE
Client ID: TRIP BLANK HL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed					10/09/23		SW5035A
Volatiles								
1,1,1,2-Tetrachloroethane	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
1,1,1-Trichloroethane	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
1,1,2-Trichloroethane	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
1,1-Dichloroethane	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
1,1-Dichloroethene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
1,1-Dichloropropene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
1,2,3-Trichloropropane	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
1,2-Dibromoethane	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
1,2-Dichlorobenzene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
1,2-Dichloroethane	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
1,2-Dichloropropane	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
1,3-Dichlorobenzene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
1,3-Dichloropropane	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
1,4-Dichlorobenzene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
2,2-Dichloropropane	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
2-Chlorotoluene	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
2-Hexanone	ND	1300	250	ug/Kg	50	10/12/23	JLI	SW8260D
2-Isopropyltoluene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D

Client ID: TRIP BLANK HL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
4-Methyl-2-pentanone	ND	1300	250	ug/Kg	50	10/12/23	JLI	SW8260D
Acetone	ND	1300	250	ug/Kg	50	10/12/23	JLI	SW8260D
Acrylonitrile	ND	500	50	ug/Kg	50	10/12/23	JLI	SW8260D
Benzene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
Bromobenzene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
Bromochloromethane	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
Bromodichloromethane	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
Bromoform	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
Bromomethane	ND	250	100	ug/Kg	50	10/12/23	JLI	SW8260D
Carbon Disulfide	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
Carbon tetrachloride	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
Chlorobenzene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
Chloroethane	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
Chloroform	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
Chloromethane	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
cis-1,2-Dichloroethene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
cis-1,3-Dichloropropene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
Dibromochloromethane	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
Dibromomethane	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
Dichlorodifluoromethane	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
Ethylbenzene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
Hexachlorobutadiene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
Isopropylbenzene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
m&p-Xylene	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
Methyl Ethyl Ketone	ND	1500	250	ug/Kg	50	10/12/23	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	500	50	ug/Kg	50	10/12/23	JLI	SW8260D
Methylene chloride	ND	250	250	ug/Kg	50	10/12/23	JLI	SW8260D
Naphthalene	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
n-Butylbenzene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
n-Propylbenzene	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
o-Xylene	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
p-Isopropyltoluene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
sec-Butylbenzene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
Styrene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
tert-Butylbenzene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
Tetrachloroethene	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
Tetrahydrofuran (THF)	ND	500	130	ug/Kg	50	10/12/23	JLI	SW8260D
Toluene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
trans-1,2-Dichloroethene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
trans-1,3-Dichloropropene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	500	130	ug/Kg	50	10/12/23	JLI	SW8260D
Trichloroethene	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
Trichlorofluoromethane	ND	250	50	ug/Kg	50	10/12/23	JLI	SW8260D
Trichlorotrifluoroethane	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
Vinyl chloride	ND	250	25	ug/Kg	50	10/12/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4 (50x)	95			%	50	10/12/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	101			%	50	10/12/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane (50x)	99			%	50	10/12/23	JLI	70 - 130 %
% Toluene-d8 (50x)	94			%	50	10/12/23	JLI	70 - 130 %

1,4-dioxane

1,4-dioxane	ND	3800		ug/kg	50	10/12/23	JLI	SW8260D
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QA/QC Surrogates

% 1,2-dichlorobenzene-d4 (50x)	95			%	50	10/12/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	101			%	50	10/12/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	99			%	50	10/12/23	JLI	70 - 130 %
% Toluene-d8 (50x)	94			%	50	10/12/23	JLI	70 - 130 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1000		ug/Kg	50	10/12/23	JLI	SW8260D
Acrolein	ND	250		ug/Kg	50	10/12/23	JLI	SW8260D
Acrylonitrile	ND	1000		ug/Kg	50	10/12/23	JLI	SW8260D
Tert-butyl alcohol	ND	5000		ug/Kg	50	10/12/23	JLI	SW8260D

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

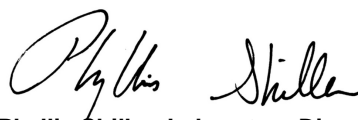
Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

October 30, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 30, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Sample Information

Matrix: SOIL
Location Code: BRUSSEE
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

10/09/23

Time

17:18

Laboratory Data

SDG ID: GCP22077
Phoenix ID: CP22082

Project ID: 28 PUTNAM AVE
Client ID: TRIP BLANK LL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed					10/09/23		SW5035A
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
1,1,1-Trichloroethane	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
1,1-Dichloroethane	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
1,1-Dichloroethene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
1,1-Dichloropropene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,3-Trichloropropane	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dibromoethane	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dichloroethane	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
1,2-Dichloropropane	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
1,3-Dichloropropane	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
2,2-Dichloropropane	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
2-Chlorotoluene	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
2-Hexanone	ND	25	5.0	ug/Kg	1	10/13/23	JLI	SW8260D
2-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D

Client ID: TRIP BLANK LL

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
4-Methyl-2-pentanone	ND	25	5.0	ug/Kg	1	10/13/23	JLI	SW8260D
Acetone	74	S 25	5.0	ug/Kg	1	10/13/23	JLI	SW8260D
Acrylonitrile	ND	10	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
Benzene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
Bromobenzene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
Bromochloromethane	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
Bromodichloromethane	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
Bromoform	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
Bromomethane	ND	5.0	2.0	ug/Kg	1	10/13/23	JLI	SW8260D
Carbon Disulfide	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
Carbon tetrachloride	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
Chlorobenzene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
Chloroethane	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
Chloroform	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
Chloromethane	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
Dibromochloromethane	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
Dibromomethane	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
Dichlorodifluoromethane	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
Ethylbenzene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
Hexachlorobutadiene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
Isopropylbenzene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
m&p-Xylene	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
Methyl Ethyl Ketone	ND	30	5.0	ug/Kg	1	10/13/23	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	10	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
Methylene chloride	ND	5.0	5.0	ug/Kg	1	10/13/23	JLI	SW8260D
Naphthalene	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
n-Butylbenzene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
n-Propylbenzene	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
o-Xylene	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
p-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
sec-Butylbenzene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
Styrene	ND	5.0	2.5	ug/Kg	1	10/13/23	JLI	SW8260D
tert-Butylbenzene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
Tetrachloroethene	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
Tetrahydrofuran (THF)	ND	10	2.5	ug/Kg	1	10/13/23	JLI	SW8260D
Toluene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	10	2.5	ug/Kg	1	10/13/23	JLI	SW8260D
Trichloroethene	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
Trichlorofluoromethane	ND	5.0	1.0	ug/Kg	1	10/13/23	JLI	SW8260D
Trichlorotrifluoroethane	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
Vinyl chloride	ND	5.0	0.50	ug/Kg	1	10/13/23	JLI	SW8260D
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	95			%	1	10/13/23	JLI	70 - 130 %
% Bromofluorobenzene	101			%	1	10/13/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	102			%	1	10/13/23	JLI	70 - 130 %
% Toluene-d8	96			%	1	10/13/23	JLI	70 - 130 %
<u>1,4-dioxane</u>								
1,4-dioxane	ND	75		ug/kg	1	10/13/23	JLI	SW8260D
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	95			%	1	10/13/23	JLI	70 - 130 %
% Bromofluorobenzene	101			%	1	10/13/23	JLI	70 - 130 %
% Dibromofluoromethane	102			%	1	10/13/23	JLI	70 - 130 %
% Toluene-d8	96			%	1	10/13/23	JLI	70 - 130 %
<u>Volatiles</u>								
1,1,1,2-Tetrachloroethane	ND	20		ug/Kg	1	10/13/23	JLI	SW8260D
Acrolein	ND	5.0		ug/Kg	1	10/13/23	JLI	SW8260D
Acrylonitrile	ND	20		ug/Kg	1	10/13/23	JLI	SW8260D
Tert-butyl alcohol	ND	100		ug/Kg	1	10/13/23	JLI	SW8260D

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

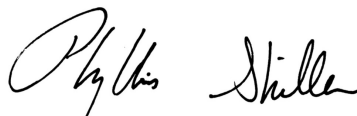
TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

October 30, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



QA/QC Report

October 30, 2023

QA/QC Data

SDG I.D.: GCP22077

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 701628 (mg/kg), QC Sample No: CP12762 2X (CP22077, CP22078, CP22079, CP22080)

Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	117	119	1.7	105	100	4.9	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 701267 (mg/kg), QC Sample No: CP21890 (CP22077)

ICP Metals - Soil

Aluminum	BRL	5.0	11600	11000	5.30	111	114	2.7	NC			75 - 125	35
Antimony	BRL	3.3	<3.6	<3.2	NC	89.5	89.7	0.2	93.6			75 - 125	35
Arsenic	BRL	0.67	5.46	5.62	2.90	107	110	2.8	103			75 - 125	35
Barium	BRL	0.33	29.8	27.2	9.10	124	116	6.7	122			75 - 125	35
Beryllium	BRL	0.27	0.60	0.52	NC	104	106	1.9	100			75 - 125	35
Cadmium	BRL	0.33	1.02	0.97	NC	110	110	0.0	103			75 - 125	35
Calcium	BRL	5.0	2440	1710	35.2	108	109	0.9	NC			75 - 125	35
Chromium	BRL	0.33	20.9	16.9	21.2	113	113	0.0	104			75 - 125	35
Cobalt	BRL	0.33	13.9	13.8	0.70	110	112	1.8	107			75 - 125	35
Copper	BRL	0.67	20.2	19.9	1.50	109	112	2.7	108			75 - 125	35
Iron	BRL	5.0	23000	21100	8.60	112	118	5.2	NC			75 - 125	35
Lead	BRL	0.33	7.58	7.77	2.50	110	114	3.6	108			75 - 125	35
Magnesium	BRL	5.0	5400	4720	13.4	115	118	2.6	NC			75 - 125	35
Manganese	BRL	0.33	558	539	3.50	105	110	4.7	>130			75 - 125	35 m
Nickel	BRL	0.33	14.5	14.0	3.50	108	110	1.8	103			75 - 125	35
Potassium	BRL	5.0	3220	2700	17.6	118	120	1.7	>130			75 - 125	35 m
Selenium	BRL	1.3	<1.4	<1.3	NC	113	114	0.9	103			75 - 125	35
Silver	BRL	0.33	<0.36	<0.32	NC	107	110	2.8	102			75 - 125	35
Sodium	BRL	5.0	162	140	14.6	113	111	1.8	>130			75 - 125	35 m
Thallium	BRL	3.0	<3.2	<2.9	NC	111	112	0.9	101			75 - 125	35
Vanadium	BRL	0.33	32.9	29.5	10.9	112	115	2.6	108			75 - 125	35
Zinc	BRL	0.67	43.0	41.6	3.30	114	108	5.4	118			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 701118 (mg/kg), QC Sample No: CP21981 (CP22078, CP22079, CP22080)

ICP Metals - Soil

Aluminum	BRL	5.0	2740	2660	3.00	100	100	0.0	NC	NC	NC	75 - 125	35
Antimony	BRL	3.3	<4.3	<4.0	NC	78.5	81.6	3.9	93.5	92.1	1.5	75 - 125	35
Arsenic	BRL	0.67	31.3	27.5	12.9	97.2	96.8	0.4	96.8	94.2	2.7	75 - 125	35
Barium	BRL	0.33	398	299	28.4	98.1	96.6	1.5	33.2	51.7	43.6	75 - 125	35 m,r
Beryllium	BRL	0.27	0.36	<0.32	NC	94.4	94.9	0.5	96.0	95.1	0.9	75 - 125	35
Cadmium	BRL	0.33	1.41	1.25	NC	99.0	99.0	0.0	101	99.6	1.4	75 - 125	35
Calcium	BRL	5.0	123	102	18.7	95.2	96.9	1.8	119	122	2.5	75 - 125	35
Chromium	BRL	0.33	14.1	10.6	28.3	100	101	1.0	104	103	1.0	75 - 125	35
Cobalt	BRL	0.33	6.32	5.48	14.2	98.3	99.2	0.9	102	99.7	2.3	75 - 125	35
Copper	BRL	0.67	15.5	13.6	13.1	96.6	96.9	0.3	97.1	96.3	0.8	75 - 125	35

QA/QC Data

SDG I.D.: GCP22077

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Iron	BRL	5.0	44600	38600	14.4	105	105	0.0	NC	NC	NC	75 - 125	35	
Lead	BRL	0.33	53.2	44.4	18.0	101	100	1.0	94.4	92.9	1.6	75 - 125	35	
Magnesium	BRL	5.0	114	122	6.80	102	103	1.0	>130	>130	NC	75 - 125	35	m
Manganese	BRL	0.33	24.2	20.4	17.0	98.7	98.8	0.1	104	103	1.0	75 - 125	35	
Nickel	BRL	0.33	15.8	14.0	12.1	96.2	98.8	2.7	104	103	1.0	75 - 125	35	
Potassium	BRL	5.0	1860	1830	1.60	103	102	1.0	110	125	12.8	75 - 125	35	
Selenium	BRL	1.3	3.6	3.4	NC	100	100	0.0	98.4	96.9	1.5	75 - 125	35	
Silver	BRL	0.33	<0.43	<0.40	NC	98.0	98.6	0.6	98.0	97.4	0.6	75 - 125	35	
Sodium	BRL	5.0	196	181	8.00	116	94.9	20.0	104	127	19.9	75 - 125	35	m
Thallium	BRL	3.0	8.5	7.9	NC	98.2	97.6	0.6	92.4	92.4	0.0	75 - 125	35	
Vanadium	BRL	0.33	21.8	16.0	30.7	100	101	1.0	100	100	0.0	75 - 125	35	
Zinc	BRL	0.67	16.6	14.3	14.9	94.7	95.6	0.9	103	101	2.0	75 - 125	35	

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.



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QA/QC Report

October 30, 2023

QA/QC Data

SDG I.D.: GCP22077

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 701561 (ug/Kg), QC Sample No: CP21479 2X (CP22077, CP22078, CP22079, CP22080)										
<u>Polychlorinated Biphenyls - Soil</u>										
PCB-1016	ND	33	81	80	1.2	66	64	3.1	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	78	77	1.3	58	59	1.7	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	72	%	101	102	1.0	72	72	0.0	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	73	%	101	96	5.1	73	68	7.1	30 - 150	30
% TCMX (Surrogate Rec)	80	%	81	81	0.0	73	69	5.6	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	83	%	85	81	4.8	76	69	9.7	30 - 150	30
QA/QC Batch 701562 (ug/Kg), QC Sample No: CP21479 2X (CP22077, CP22078, CP22079, CP22080)										
<u>Pesticides - Soil</u>										
4,4' -DDD	ND	1.7	98	97	1.0	79	77	2.6	40 - 140	30
4,4' -DDE	ND	1.7	95	94	1.1	84	81	3.6	40 - 140	30
4,4' -DDT	ND	1.7	89	90	1.1	73	71	2.8	40 - 140	30
a-BHC	ND	1.0	85	85	0.0	64	65	1.6	40 - 140	30
a-Chlordane	ND	3.3	93	93	0.0	86	85	1.2	40 - 140	30
Aldrin	ND	1.0	94	94	0.0	82	81	1.2	40 - 140	30
b-BHC	ND	1.0	92	91	1.1	79	78	1.3	40 - 140	30
Chlordane	ND	3.3	92	92	0.0	83	82	1.2	40 - 140	30
d-BHC	ND	3.3	81	80	1.2	32	32	0.0	40 - 140	30
Dieldrin	ND	1.0	93	93	0.0	79	77	2.6	40 - 140	30
Endosulfan I	ND	3.3	90	90	0.0	59	57	3.4	40 - 140	30
Endosulfan II	ND	3.3	100	100	0.0	55	54	1.8	40 - 140	30
Endosulfan sulfate	ND	3.3	87	87	0.0	64	62	3.2	40 - 140	30
Endrin	ND	3.3	93	93	0.0	78	76	2.6	40 - 140	30
Endrin aldehyde	ND	3.3	83	83	0.0	50	52	3.9	40 - 140	30
Endrin ketone	ND	3.3	91	90	1.1	72	70	2.8	40 - 140	30
g-BHC	ND	1.0	92	92	0.0	70	69	1.4	40 - 140	30
g-Chlordane	ND	3.3	92	92	0.0	83	82	1.2	40 - 140	30
Heptachlor	ND	3.3	82	83	1.2	73	71	2.8	40 - 140	30
Heptachlor epoxide	ND	3.3	88	88	0.0	76	75	1.3	40 - 140	30
Methoxychlor	ND	3.3	85	85	0.0	71	68	4.3	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	87	%	82	74	10.3	63	59	6.6	30 - 150	30
% DCBP (Confirmation)	73	%	71	63	11.9	53	51	3.8	30 - 150	30
% TCMX	93	%	87	80	8.4	82	80	2.5	30 - 150	30
% TCMX (Confirmation)	92	%	84	76	10.0	81	79	2.5	30 - 150	30

QA/QC Data

SDG I.D.: GCP22077

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 701258 (ug/kg), QC Sample No: CP22078 (CP22077, CP22078, CP22079, CP22080)											
Semivolatiles - Soil											
1,2,4,5-Tetrachlorobenzene	ND	230	62	67	7.8	65	65	0.0	40 - 140	30	
1,2,4-Trichlorobenzene	ND	230	60	66	9.5	65	65	0.0	40 - 140	30	
1,2-Dichlorobenzene	ND	180	58	66	12.9	64	64	0.0	40 - 140	30	
1,2-Diphenylhydrazine	ND	230	68	73	7.1	72	70	2.8	40 - 140	30	
1,3-Dichlorobenzene	ND	230	54	62	13.8	61	61	0.0	40 - 140	30	
1,4-Dichlorobenzene	ND	230	55	63	13.6	61	61	0.0	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	60	65	8.0	63	60	4.9	40 - 140	30	
2,4,5-Trichlorophenol	ND	230	80	85	6.1	83	80	3.7	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	78	81	3.8	75	73	2.7	30 - 130	30	
2,4-Dichlorophenol	ND	130	71	74	4.1	71	71	0.0	30 - 130	30	
2,4-Dimethylphenol	ND	230	77	79	2.6	74	73	1.4	30 - 130	30	
2,4-Dinitrophenol	ND	230	78	77	1.3	43	27	45.7	30 - 130	30	m,r
2,4-Dinitrotoluene	ND	130	78	81	3.8	80	78	2.5	30 - 130	30	
2,6-Dinitrotoluene	ND	130	74	78	5.3	76	75	1.3	40 - 140	30	
2-Chloronaphthalene	ND	230	68	74	8.5	72	70	2.8	40 - 140	30	
2-Chlorophenol	ND	230	69	72	4.3	71	67	5.8	30 - 130	30	
2-Methylnaphthalene	ND	230	64	68	6.1	65	66	1.5	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	69	71	2.9	67	75	11.3	40 - 140	30	
2-Nitroaniline	ND	330	112	114	1.8	98	83	16.6	40 - 140	30	
2-Nitrophenol	ND	230	75	82	8.9	78	81	3.8	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	65	67	3.0	63	59	6.6	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	97	95	2.1	50	34	38.1	40 - 140	30	m,r
3-Nitroaniline	ND	330	89	90	1.1	58	45	25.2	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	83	85	2.4	79	70	12.1	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	76	80	5.1	79	77	2.6	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	79	79	0.0	75	73	2.7	30 - 130	30	
4-Chloroaniline	ND	230	69	72	4.3	44	38	14.6	40 - 140	30	m
4-Chlorophenyl phenyl ether	ND	230	72	75	4.1	75	72	4.1	40 - 140	30	
4-Nitroaniline	ND	230	73	77	5.3	73	71	2.8	40 - 140	30	
4-Nitrophenol	ND	230	79	83	4.9	74	70	5.6	30 - 130	30	
Acenaphthene	ND	230	65	71	8.8	68	67	1.5	30 - 130	30	
Acenaphthylene	ND	130	65	69	6.0	66	65	1.5	40 - 140	30	
Acetophenone	ND	230	64	66	3.1	65	63	3.1	40 - 140	30	
Aniline	ND	330	62	66	6.3	53	43	20.8	40 - 140	30	
Anthracene	ND	230	79	82	3.7	79	77	2.6	40 - 140	30	
Benz(a)anthracene	ND	230	75	76	1.3	73	70	4.2	40 - 140	30	
Benzidine	ND	330	54	103	62.4	<10	<10	NC	40 - 140	30	m,r
Benzo(a)pyrene	ND	130	88	90	2.2	90	85	5.7	40 - 140	30	
Benzo(b)fluoranthene	ND	160	73	73	0.0	76	78	2.6	40 - 140	30	
Benzo(ghi)perylene	ND	230	81	89	9.4	91	83	9.2	40 - 140	30	
Benzo(k)fluoranthene	ND	230	68	67	1.5	70	71	1.4	40 - 140	30	
Benzoic Acid	ND	670	88	75	16.0	64	61	4.8	30 - 130	30	
Benzyl butyl phthalate	ND	230	75	78	3.9	77	74	4.0	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	64	68	6.1	65	65	0.0	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	80	62	25.4	64	62	3.2	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	74	77	4.0	77	73	5.3	40 - 140	30	
Carbazole	ND	230	81	84	3.6	80	77	3.8	40 - 140	30	
Chrysene	ND	230	74	75	1.3	75	73	2.7	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	81	86	6.0	87	84	3.5	40 - 140	30	
Dibenzofuran	ND	230	69	71	2.9	70	68	2.9	40 - 140	30	

QA/QC Data

SDG I.D.: GCP22077

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Diethyl phthalate	ND	230	78	82	5.0	80	76	5.1	40 - 140	30
Dimethylphthalate	ND	230	77	79	2.6	76	74	2.7	40 - 140	30
Di-n-butylphthalate	ND	670	82	82	0.0	84	83	1.2	40 - 140	30
Di-n-octylphthalate	ND	230	72	73	1.4	72	70	2.8	40 - 140	30
Fluoranthene	ND	230	81	82	1.2	81	82	1.2	40 - 140	30
Fluorene	ND	230	73	77	5.3	74	73	1.4	40 - 140	30
Hexachlorobenzene	ND	130	79	86	8.5	82	84	2.4	40 - 140	30
Hexachlorobutadiene	ND	230	60	70	15.4	68	69	1.5	40 - 140	30
Hexachlorocyclopentadiene	ND	230	57	63	10.0	83	85	2.4	40 - 140	30
Hexachloroethane	ND	130	55	64	15.1	65	64	1.6	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	80	88	9.5	89	83	7.0	40 - 140	30
Isophorone	ND	130	59	64	8.1	61	61	0.0	40 - 140	30
Naphthalene	ND	230	61	67	9.4	65	65	0.0	40 - 140	30
Nitrobenzene	ND	130	65	69	6.0	69	67	2.9	40 - 140	30
N-Nitrosodimethylamine	ND	230	40	43	7.2	39	39	0.0	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	66	72	8.7	70	68	2.9	40 - 140	30
N-Nitrosodiphenylamine	ND	130	76	78	2.6	73	66	10.1	40 - 140	30
Pentachloronitrobenzene	ND	230	83	85	2.4	84	83	1.2	40 - 140	30
Pentachlorophenol	ND	230	85	83	2.4	55	49	11.5	30 - 130	30
Phenanthrene	ND	130	75	79	5.2	77	75	2.6	40 - 140	30
Phenol	ND	230	73	75	2.7	68	64	6.1	30 - 130	30
Pyrene	ND	230	74	76	2.7	77	79	2.6	30 - 130	30
Pyridine	ND	230	27	33	20.0	<10	<10	NC	40 - 140	30
% 2,4,6-Tribromophenol	89	%	86	90	4.5	82	97	16.8	30 - 130	30
% 2-Fluorobiphenyl	66	%	64	71	10.4	67	77	13.9	30 - 130	30
% 2-Fluorophenol	65	%	67	72	7.2	66	77	15.4	30 - 130	30
% Nitrobenzene-d5	65	%	64	69	7.5	65	73	11.6	30 - 130	30
% Phenol-d5	67	%	72	77	6.7	69	77	11.0	30 - 130	30
% Terphenyl-d14	65	%	67	70	4.4	66	79	17.9	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 703478 (ug/kg), QC Sample No: CP22080 (CP22080)

Polynuclear Aromatic HC - Soil

1,4-dioxane	ND	67	45	45	0.0	44	46	4.4	30 - 130	30
% 2-Fluorobiphenyl	79	%	63	44	35.5	78	69	12.2	30 - 130	30
% Nitrobenzene-d5	72	%	65	42	43.0	80	68	16.2	30 - 130	30
% Terphenyl-d14	72	%	66	44	40.0	73	68	7.1	30 - 130	30

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 701652 (ug/kg), QC Sample No: CP23479 (CP22077, CP22078, CP22079)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	111	108	2.7	95	91	4.3	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	108	105	2.8	100	100	0.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	102	101	1.0	101	98	3.0	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	106	103	2.9	95	93	2.1	70 - 130	30
1,1-Dichloroethane	ND	5.0	99	99	0.0	95	97	2.1	70 - 130	30
1,1-Dichloroethene	ND	5.0	102	102	0.0	95	95	0.0	70 - 130	30
1,1-Dichloropropene	ND	5.0	106	102	3.8	94	91	3.2	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	109	107	1.9	51	47	8.2	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	99	98	1.0	104	102	1.9	70 - 130	30

QA/QC Data

SDG I.D.: GCP22077

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4-Trichlorobenzene	ND	5.0	108	108	0.0	61	56	8.5	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	105	104	1.0	93	88	5.5	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	111	104	6.5	85	82	3.6	70 - 130	30	
1,2-Dibromoethane	ND	5.0	103	101	2.0	94	93	1.1	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	106	106	0.0	84	79	6.1	70 - 130	30	
1,2-Dichloroethane	ND	5.0	107	105	1.9	100	98	2.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	105	103	1.9	99	96	3.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	104	104	0.0	94	88	6.6	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	103	103	0.0	85	80	6.1	70 - 130	30	
1,3-Dichloropropane	ND	5.0	100	100	0.0	96	93	3.2	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	107	107	0.0	87	82	5.9	70 - 130	30	
1,4-dioxane	ND	100	101	187	59.7	106	149	33.7	70 - 130	30	I,m,r
2,2-Dichloropropane	ND	5.0	116	115	0.9	102	103	1.0	70 - 130	30	
2-Chlorotoluene	ND	5.0	105	105	0.0	96	91	5.3	70 - 130	30	
2-Hexanone	ND	25	94	92	2.2	84	80	4.9	70 - 130	30	
2-Isopropyltoluene	ND	5.0	107	107	0.0	90	84	6.9	70 - 130	30	
4-Chlorotoluene	ND	5.0	104	105	1.0	93	88	5.5	70 - 130	30	
4-Methyl-2-pentanone	ND	25	103	101	2.0	95	94	1.1	70 - 130	30	
Acetone	ND	10	86	87	1.2	88	91	3.4	70 - 130	30	
Acrolein	ND	25	112	111	0.9	33	28	16.4	70 - 130	30	m
Acrylonitrile	ND	5.0	93	92	1.1	85	85	0.0	70 - 130	30	
Benzene	ND	1.0	104	101	2.9	110	112	1.8	70 - 130	30	
Bromobenzene	ND	5.0	105	107	1.9	99	95	4.1	70 - 130	30	
Bromochloromethane	ND	5.0	98	100	2.0	92	93	1.1	70 - 130	30	
Bromodichloromethane	ND	5.0	110	108	1.8	93	92	1.1	70 - 130	30	
Bromoform	ND	5.0	106	106	0.0	76	74	2.7	70 - 130	30	
Bromomethane	ND	5.0	102	106	3.8	96	98	2.1	70 - 130	30	
Carbon Disulfide	ND	5.0	100	100	0.0	80	79	1.3	70 - 130	30	
Carbon tetrachloride	ND	5.0	110	111	0.9	91	93	2.2	70 - 130	30	
Chlorobenzene	ND	5.0	103	103	0.0	91	88	3.4	70 - 130	30	
Chloroethane	ND	5.0	108	109	0.9	101	102	1.0	70 - 130	30	
Chloroform	ND	5.0	98	98	0.0	94	95	1.1	70 - 130	30	
Chloromethane	ND	5.0	103	105	1.9	86	87	1.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	100	100	0.0	92	94	2.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	113	111	1.8	95	92	3.2	70 - 130	30	
Dibromochloromethane	ND	3.0	108	108	0.0	88	84	4.7	70 - 130	30	
Dibromomethane	ND	5.0	108	105	2.8	97	96	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	95	94	1.1	71	70	1.4	70 - 130	30	
Ethylbenzene	ND	1.0	102	102	0.0	93	90	3.3	70 - 130	30	
Hexachlorobutadiene	ND	5.0	105	104	1.0	51	44	14.7	70 - 130	30	m
Isopropylbenzene	ND	1.0	104	105	1.0	100	94	6.2	70 - 130	30	
m&p-Xylene	ND	2.0	102	101	1.0	91	88	3.4	70 - 130	30	
Methyl ethyl ketone	ND	5.0	91	89	2.2	83	84	1.2	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	98	98	0.0	94	95	1.1	70 - 130	30	
Methylene chloride	ND	5.0	98	99	1.0	95	96	1.0	70 - 130	30	
Naphthalene	ND	5.0	107	106	0.9	60	57	5.1	70 - 130	30	m
n-Butylbenzene	ND	1.0	110	108	1.8	80	73	9.2	70 - 130	30	
n-Propylbenzene	ND	1.0	107	105	1.9	97	91	6.4	70 - 130	30	
o-Xylene	ND	2.0	104	103	1.0	92	89	3.3	70 - 130	30	
p-Isopropyltoluene	ND	1.0	106	106	0.0	87	80	8.4	70 - 130	30	
sec-Butylbenzene	ND	1.0	104	102	1.9	85	78	8.6	70 - 130	30	
Styrene	ND	5.0	102	101	1.0	83	81	2.4	70 - 130	30	
tert-butyl alcohol	ND	100	108	179	49.5	120	146	19.5	70 - 130	30	I,m,r

QA/QC Data

SDG I.D.: GCP22077

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
tert-Butylbenzene	ND	1.0	104	104	0.0	93	87	6.7	70 - 130	30
Tetrachloroethene	ND	5.0	108	106	1.9	90	87	3.4	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	96	93	3.2	90	90	0.0	70 - 130	30
Toluene	ND	1.0	107	105	1.9	96	95	1.0	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	101	102	1.0	92	93	1.1	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	117	116	0.9	96	93	3.2	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	125	125	0.0	95	86	9.9	70 - 130	30
Trichloroethene	ND	5.0	105	102	2.9	94	92	2.2	70 - 130	30
Trichlorofluoromethane	ND	5.0	106	105	0.9	96	95	1.0	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	102	102	0.0	88	88	0.0	70 - 130	30
Vinyl chloride	ND	5.0	102	101	1.0	88	88	0.0	70 - 130	30
% 1,2-dichlorobenzene-d4	95	%	100	101	1.0	98	98	0.0	70 - 130	30
% Bromofluorobenzene	102	%	100	101	1.0	97	98	1.0	70 - 130	30
% Dibromofluoromethane	103	%	100	101	1.0	97	98	1.0	70 - 130	30
% Toluene-d8	94	%	103	103	0.0	102	102	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 701652H (ug/kg), QC Sample No: CP23479 50X (CP22081 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	105	102	2.9	79	91	14.1	70 - 130	30
1,1,1-Trichloroethane	ND	250	108	108	0.0	92	102	10.3	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	101	98	3.0	81	94	14.9	70 - 130	30
1,1,2-Trichloroethane	ND	250	102	103	1.0	87	96	9.8	70 - 130	30
1,1-Dichloroethane	ND	250	103	102	1.0	87	96	9.8	70 - 130	30
1,1-Dichloroethene	ND	250	96	93	3.2	84	90	6.9	70 - 130	30
1,1-Dichloropropene	ND	250	107	108	0.9	90	99	9.5	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	112	112	0.0	89	102	13.6	70 - 130	30
1,2,3-Trichloropropane	ND	250	95	95	0.0	83	95	13.5	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	113	111	1.8	90	103	13.5	70 - 130	30
1,2,4-Trimethylbenzene	ND	250	109	110	0.9	91	101	10.4	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	104	98	5.9	70	86	20.5	70 - 130	30
1,2-Dibromoethane	ND	250	100	99	1.0	82	93	12.6	70 - 130	30
1,2-Dichlorobenzene	ND	250	107	107	0.0	88	99	11.8	70 - 130	30
1,2-Dichloroethane	ND	250	105	105	0.0	91	100	9.4	70 - 130	30
1,2-Dichloropropane	ND	250	106	105	0.9	88	97	9.7	70 - 130	30
1,3,5-Trimethylbenzene	ND	250	110	109	0.9	91	101	10.4	70 - 130	30
1,3-Dichlorobenzene	ND	250	108	107	0.9	89	99	10.6	70 - 130	30
1,3-Dichloropropane	ND	250	99	100	1.0	84	93	10.2	70 - 130	30
1,4-Dichlorobenzene	ND	250	111	111	0.0	92	102	10.3	70 - 130	30
1,4-dioxane	ND	5000	100	123	20.6	88	94	6.6	70 - 130	30
2,2-Dichloropropane	ND	250	120	119	0.8	89	103	14.6	70 - 130	30
2-Chlorotoluene	ND	250	108	109	0.9	91	101	10.4	70 - 130	30
2-Hexanone	ND	1300	90	88	2.2	73	84	14.0	70 - 130	30
2-Isopropyltoluene	ND	250	112	111	0.9	92	103	11.3	70 - 130	30
4-Chlorotoluene	ND	250	107	109	1.9	90	100	10.5	70 - 130	30
4-Methyl-2-pentanone	ND	1300	98	99	1.0	81	93	13.8	70 - 130	30
Acetone	ND	500	69	66	4.4	64	72	11.8	70 - 130	30
Acrolein	ND	1300	114	110	3.6	91	103	12.4	70 - 130	30
Acrylonitrile	ND	250	97	93	4.2	80	92	14.0	70 - 130	30
Benzene	ND	250	105	104	1.0	88	98	10.8	70 - 130	30
Bromobenzene	ND	250	109	106	2.8	90	101	11.5	70 - 130	30

I,m

QA/QC Data

SDG I.D.: GCP22077

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bromochloromethane	ND	250	101	97	4.0	87	93	6.7	70 - 130	30	
Bromodichloromethane	ND	250	102	101	1.0	80	92	14.0	70 - 130	30	
Bromoform	ND	250	89	83	7.0	61	73	17.9	70 - 130	30	m
Bromomethane	ND	250	79	81	2.5	68	76	11.1	70 - 130	30	m
Carbon Disulfide	ND	250	94	91	3.2	78	86	9.8	70 - 130	30	
Carbon tetrachloride	ND	250	106	103	2.9	76	89	15.8	70 - 130	30	
Chlorobenzene	ND	250	106	105	0.9	88	98	10.8	70 - 130	30	
Chloroethane	ND	250	28	27	3.6	23	26	12.2	70 - 130	30	I,m
Chloroform	ND	250	103	102	1.0	88	95	7.7	70 - 130	30	
Chloromethane	ND	250	106	102	3.8	84	91	8.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	103	102	1.0	88	97	9.7	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	109	108	0.9	83	95	13.5	70 - 130	30	
Dibromochloromethane	ND	150	99	95	4.1	72	84	15.4	70 - 130	30	
Dibromomethane	ND	250	104	104	0.0	87	98	11.9	70 - 130	30	
Dichlorodifluoromethane	ND	250	94	92	2.2	77	84	8.7	70 - 130	30	
Ethylbenzene	ND	250	106	106	0.0	88	98	10.8	70 - 130	30	
Hexachlorobutadiene	ND	250	112	112	0.0	90	101	11.5	70 - 130	30	
Isopropylbenzene	ND	250	110	108	1.8	90	99	9.5	70 - 130	30	
m&p-Xylene	ND	250	106	106	0.0	88	97	9.7	70 - 130	30	
Methyl ethyl ketone	ND	250	92	90	2.2	78	86	9.8	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	102	99	3.0	86	95	9.9	70 - 130	30	
Methylene chloride	ND	250	99	97	2.0	85	93	9.0	70 - 130	30	
Naphthalene	ND	250	109	107	1.9	85	99	15.2	70 - 130	30	
n-Butylbenzene	ND	250	118	118	0.0	96	108	11.8	70 - 130	30	
n-Propylbenzene	ND	250	113	112	0.9	93	103	10.2	70 - 130	30	
o-Xylene	ND	250	107	107	0.0	88	98	10.8	70 - 130	30	
p-Isopropyltoluene	ND	250	112	112	0.0	92	103	11.3	70 - 130	30	
sec-Butylbenzene	ND	250	108	108	0.0	90	100	10.5	70 - 130	30	
Styrene	ND	250	104	104	0.0	87	97	10.9	70 - 130	30	
tert-butyl alcohol	ND	5000	107	127	17.1	90	102	12.5	70 - 130	30	
tert-Butylbenzene	ND	250	107	108	0.9	89	99	10.6	70 - 130	30	
Tetrachloroethene	ND	250	113	114	0.9	95	105	10.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	250	97	94	3.1	81	93	13.8	70 - 130	30	
Toluene	ND	250	109	109	0.0	91	101	10.4	70 - 130	30	
trans-1,2-Dichloroethene	ND	250	105	104	1.0	90	98	8.5	70 - 130	30	
trans-1,3-Dichloropropene	ND	250	111	110	0.9	84	96	13.3	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	250	116	113	2.6	74	92	21.7	70 - 130	30	
Trichloroethene	ND	250	107	105	1.9	89	99	10.6	70 - 130	30	
Trichlorofluoromethane	ND	250	47	46	2.2	48	51	6.1	70 - 130	30	I,m
Trichlorotrifluoroethane	ND	250	100	96	4.1	87	94	7.7	70 - 130	30	
Vinyl chloride	ND	250	101	101	0.0	85	92	7.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	94	%	100	100	0.0	100	101	1.0	70 - 130	30	
% Bromofluorobenzene	102	%	100	98	2.0	99	100	1.0	70 - 130	30	
% Dibromofluoromethane	98	%	102	101	1.0	101	101	0.0	70 - 130	30	
% Toluene-d8	95	%	103	104	1.0	103	103	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 701738 (ug/kg), QC Sample No: CP23562 (CP22080)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	95	92	3.2	92	90	2.2	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	92	92	0.0	89	89	0.0	70 - 130	30

QA/QC Data

SDG I.D.: GCP22077

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,2,2-Tetrachloroethane	ND	3.0	92	92	0.0	111	103	7.5	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	92	92	0.0	85	87	2.3	70 - 130	30	
1,1-Dichloroethane	ND	5.0	93	93	0.0	92	92	0.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0	108	111	2.7	110	111	0.9	70 - 130	30	
1,1-Dichloropropene	ND	5.0	92	90	2.2	90	88	2.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	105	104	1.0	46	41	11.5	70 - 130	30	m
1,2,3-Trichloropropane	ND	5.0	96	98	2.1	119	111	7.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	102	100	2.0	50	46	8.3	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	93	91	2.2	102	91	11.4	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	82	86	4.8	83	77	7.5	70 - 130	30	
1,2-Dibromoethane	ND	5.0	97	97	0.0	95	94	1.1	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	98	96	2.1	87	83	4.7	70 - 130	30	
1,2-Dichloroethane	ND	5.0	99	98	1.0	94	96	2.1	70 - 130	30	
1,2-Dichloropropane	ND	5.0	93	91	2.2	90	90	0.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	94	92	2.2	108	95	12.8	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	95	93	2.1	92	86	6.7	70 - 130	30	
1,3-Dichloropropane	ND	5.0	96	96	0.0	98	97	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	98	96	2.1	93	88	5.5	70 - 130	30	
1,4-dioxane	ND	100	89	86	3.4	96	93	3.2	70 - 130	30	
2,2-Dichloropropane	ND	5.0	91	90	1.1	88	87	1.1	70 - 130	30	
2-Chlorotoluene	ND	5.0	94	91	3.2	110	99	10.5	70 - 130	30	
2-Hexanone	ND	25	84	87	3.5	68	67	1.5	70 - 130	30	m
2-Isopropyltoluene	ND	5.0	96	94	2.1	102	89	13.6	70 - 130	30	
4-Chlorotoluene	ND	5.0	93	91	2.2	108	97	10.7	70 - 130	30	
4-Methyl-2-pentanone	ND	25	87	90	3.4	73	75	2.7	70 - 130	30	
Acetone	ND	10	80	85	6.1	19	67	111.6	70 - 130	30	m,r
Acrolein	ND	25	104	108	3.8	<10	<10	NC	70 - 130	30	m
Acrylonitrile	ND	5.0	89	93	4.4	78	78	0.0	70 - 130	30	
Benzene	ND	1.0	92	90	2.2	90	88	2.2	70 - 130	30	
Bromobenzene	ND	5.0	99	97	2.0	115	106	8.1	70 - 130	30	
Bromochloromethane	ND	5.0	93	92	1.1	89	90	1.1	70 - 130	30	
Bromodichloromethane	ND	5.0	93	91	2.2	87	87	0.0	70 - 130	30	
Bromoform	ND	5.0	89	88	1.1	75	75	0.0	70 - 130	30	
Bromomethane	ND	5.0	120	120	0.0	124	125	0.8	70 - 130	30	
Carbon Disulfide	ND	5.0	107	109	1.9	101	99	2.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	86	102	17.0	82	82	0.0	70 - 130	30	
Chlorobenzene	ND	5.0	98	96	2.1	96	92	4.3	70 - 130	30	
Chloroethane	ND	5.0	114	113	0.9	117	122	4.2	70 - 130	30	
Chloroform	ND	5.0	93	93	0.0	91	91	0.0	70 - 130	30	
Chloromethane	ND	5.0	88	90	2.2	88	89	1.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	93	92	1.1	90	90	0.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	92	90	2.2	83	83	0.0	70 - 130	30	
Dibromochloromethane	ND	3.0	91	90	1.1	86	86	0.0	70 - 130	30	
Dibromomethane	ND	5.0	97	96	1.0	90	91	1.1	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	94	97	3.1	96	96	0.0	70 - 130	30	
Ethylbenzene	ND	1.0	93	92	1.1	94	89	5.5	70 - 130	30	
Hexachlorobutadiene	ND	5.0	97	93	4.2	60	45	28.6	70 - 130	30	m
Isopropylbenzene	ND	1.0	93	92	1.1	119	104	13.5	70 - 130	30	
m&p-Xylene	ND	2.0	95	94	1.1	95	90	5.4	70 - 130	30	
Methyl ethyl ketone	ND	5.0	77	79	2.6	72	70	2.8	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	95	95	0.0	92	94	2.2	70 - 130	30	
Methylene chloride	ND	5.0	104	105	1.0	105	106	0.9	70 - 130	30	
Naphthalene	ND	5.0	104	107	2.8	60	53	12.4	70 - 130	30	m

QA/QC Data

SDG I.D.: GCP22077

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
n-Butylbenzene	ND	1.0	91	89	2.2	89	74	18.4	70 - 130	30
n-Propylbenzene	ND	1.0	92	91	1.1	113	98	14.2	70 - 130	30
o-Xylene	ND	2.0	93	91	2.2	90	86	4.5	70 - 130	30
p-Isopropyltoluene	ND	1.0	93	91	2.2	99	85	15.2	70 - 130	30
sec-Butylbenzene	ND	1.0	92	91	1.1	102	87	15.9	70 - 130	30
Styrene	ND	5.0	92	90	2.2	85	82	3.6	70 - 130	30
tert-butyl alcohol	ND	100	98	96	2.1	103	98	5.0	70 - 130	30
tert-Butylbenzene	ND	1.0	94	93	1.1	110	95	14.6	70 - 130	30
Tetrachloroethene	ND	5.0	93	92	1.1	87	83	4.7	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	87	90	3.4	80	80	0.0	70 - 130	30
Toluene	ND	1.0	90	88	2.2	86	84	2.4	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	97	97	0.0	96	97	1.0	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	92	91	1.1	81	82	1.2	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	87	89	2.3	97	88	9.7	70 - 130	30
Trichloroethene	ND	5.0	98	97	1.0	94	92	2.2	70 - 130	30
Trichlorofluoromethane	ND	5.0	115	117	1.7	118	119	0.8	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	117	118	0.9	118	116	1.7	70 - 130	30
Vinyl chloride	ND	5.0	96	98	2.1	98	98	0.0	70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	97	98	1.0	93	94	1.1	70 - 130	30
% Bromofluorobenzene	94	%	95	95	0.0	86	88	2.3	70 - 130	30
% Dibromofluoromethane	99	%	99	101	2.0	98	100	2.0	70 - 130	30
% Toluene-d8	98	%	96	96	0.0	94	94	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 701932 (ug/kg), QC Sample No: CP23689 (CP22082)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	100	108	7.7	103	105	1.9	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	104	110	5.6	105	107	1.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	95	102	7.1	104	106	1.9	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	98	104	5.9	101	100	1.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	97	101	4.0	98	100	2.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	102	108	5.7	100	103	3.0	70 - 130	30
1,1-Dichloropropene	ND	5.0	98	103	5.0	102	100	2.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	101	101	0.0	72	72	0.0	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	92	98	6.3	101	102	1.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	102	100	2.0	78	76	2.6	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	99	100	1.0	108	104	3.8	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	96	106	9.9	96	99	3.1	70 - 130	30
1,2-Dibromoethane	ND	5.0	95	103	8.1	97	99	2.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	99	103	4.0	98	96	2.1	70 - 130	30
1,2-Dichloroethane	ND	5.0	99	106	6.8	103	101	2.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	97	102	5.0	103	101	2.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	99	101	2.0	108	105	2.8	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	98	101	3.0	98	96	2.1	70 - 130	30
1,3-Dichloropropane	ND	5.0	93	100	7.3	97	97	0.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	99	104	4.9	100	98	2.0	70 - 130	30
1,4-dioxane	ND	100	101	115	13.0	104	104	0.0	70 - 130	30
2,2-Dichloropropane	ND	5.0	113	119	5.2	107	107	0.0	70 - 130	30
2-Chlorotoluene	ND	5.0	99	103	4.0	108	105	2.8	70 - 130	30
2-Hexanone	ND	25	85	92	7.9	77	77	0.0	70 - 130	30
2-Isopropyltoluene	ND	5.0	101	101	0.0	108	105	2.8	70 - 130	30

QA/QC Data

SDG I.D.: GCP22077

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
4-Chlorotoluene	ND	5.0	99	102	3.0	105	102	2.9	70 - 130	30
4-Methyl-2-pentanone	ND	25	93	100	7.3	93	93	0.0	70 - 130	30
Acetone	ND	10	83	89	7.0	84	85	1.2	70 - 130	30
Acrolein	ND	25	106	114	7.3	30	28	6.9	70 - 130	30
Acrylonitrile	ND	5.0	89	95	6.5	70	74	5.6	70 - 130	30
Benzene	ND	1.0	97	103	6.0	103	101	2.0	70 - 130	30
Bromobenzene	ND	5.0	101	106	4.8	109	107	1.9	70 - 130	30
Bromochloromethane	ND	5.0	97	102	5.0	97	99	2.0	70 - 130	30
Bromodichloromethane	ND	5.0	100	108	7.7	102	103	1.0	70 - 130	30
Bromoform	ND	5.0	90	100	10.5	84	91	8.0	70 - 130	30
Bromomethane	ND	5.0	105	112	6.5	98	99	1.0	70 - 130	30
Carbon Disulfide	ND	5.0	99	105	5.9	94	96	2.1	70 - 130	30
Carbon tetrachloride	ND	5.0	106	112	5.5	103	106	2.9	70 - 130	30
Chlorobenzene	ND	5.0	97	103	6.0	100	99	1.0	70 - 130	30
Chloroethane	ND	5.0	108	114	5.4	99	106	6.8	70 - 130	30
Chloroform	ND	5.0	98	102	4.0	99	99	0.0	70 - 130	30
Chloromethane	ND	5.0	104	113	8.3	96	99	3.1	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	97	102	5.0	98	100	2.0	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	103	110	6.6	102	102	0.0	70 - 130	30
Dibromochloromethane	ND	3.0	98	107	8.8	96	98	2.1	70 - 130	30
Dibromomethane	ND	5.0	99	106	6.8	103	102	1.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	108	121	11.4	97	98	1.0	70 - 130	30
Ethylbenzene	ND	1.0	96	102	6.1	103	101	2.0	70 - 130	30
Hexachlorobutadiene	ND	5.0	98	92	6.3	79	74	6.5	70 - 130	30
Isopropylbenzene	ND	1.0	99	103	4.0	111	109	1.8	70 - 130	30
m&p-Xylene	ND	2.0	95	101	6.1	102	101	1.0	70 - 130	30
Methyl ethyl ketone	ND	5.0	88	92	4.4	81	81	0.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	95	102	7.1	100	97	3.0	70 - 130	30
Methylene chloride	ND	5.0	96	101	5.1	102	104	1.9	70 - 130	30
Naphthalene	ND	5.0	100	103	3.0	75	76	1.3	70 - 130	30
n-Butylbenzene	ND	1.0	104	98	5.9	102	98	4.0	70 - 130	30
n-Propylbenzene	ND	1.0	100	102	2.0	112	108	3.6	70 - 130	30
o-Xylene	ND	2.0	97	102	5.0	102	101	1.0	70 - 130	30
p-Isopropyltoluene	ND	1.0	100	97	3.0	105	101	3.9	70 - 130	30
sec-Butylbenzene	ND	1.0	98	98	0.0	104	100	3.9	70 - 130	30
Styrene	ND	5.0	96	101	5.1	92	92	0.0	70 - 130	30
tert-butyl alcohol	ND	100	110	119	7.9	109	115	5.4	70 - 130	30
tert-Butylbenzene	ND	1.0	99	99	0.0	108	106	1.9	70 - 130	30
Tetrachloroethene	ND	5.0	103	110	6.6	105	102	2.9	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	90	96	6.5	88	92	4.4	70 - 130	30
Toluene	ND	1.0	99	107	7.8	105	104	1.0	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	99	106	6.8	105	102	2.9	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	107	116	8.1	104	104	0.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	110	122	10.3	105	109	3.7	70 - 130	30
Trichloroethene	ND	5.0	98	105	6.9	102	101	1.0	70 - 130	30
Trichlorofluoromethane	ND	5.0	105	113	7.3	101	104	2.9	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	101	107	5.8	99	100	1.0	70 - 130	30
Vinyl chloride	ND	5.0	102	109	6.6	98	100	2.0	70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	101	101	0.0	99	101	2.0	70 - 130	30
% Bromofluorobenzene	101	%	102	100	2.0	96	97	1.0	70 - 130	30
% Dibromofluoromethane	102	%	103	103	0.0	98	101	3.0	70 - 130	30
% Toluene-d8	94	%	103	103	0.0	103	103	0.0	70 - 130	30

QA/QC Data

SDG I.D.: GCP22077

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

October 30, 2023

Monday, October 30, 2023

Criteria: NY: 375, 375GWP, 375RRS, 375RS

State: NY

Sample Criteria Exceedances Report

GCP22077 - BRUSSEE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CP22078	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Ground Water Protection	61	30	50	50	ug/Kg
CP22078	\$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	61	30	50	50	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

October 30, 2023

SDG I.D.: GCP22077

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

PCB Narration

AU-ECD48 10/13/23-1: CP22077, CP22078, CP22079, CP22080

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CP22077, CP22078, CP22080

Preceding CC O13B025 - None.

Succeeding CC O13B038 - PCB 1260 22%H (%)

Samples: CP22079

Preceding CC O13B038 - PCB 1260 22%H (%)

Succeeding CC O13B052 - DCBP SURR 24%L (15%)

PEST Narration

AU-ECD33 10/13/23-1: CP22077, CP22078, CP22079, CP22080

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CP22077, CP22078, CP22079, CP22080

Preceding CC O13B014 - b-BHC 21%H (20%), d-BHC 21%H (20%)

Succeeding CC O13B028 - None.

SVOA Narration

CHEM28 10/12/23-1: CP22078

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.057 (0.1), Hexachlorobenzene 0.075 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: 2-Nitroaniline 33%L (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.066 (0.1), Hexachlorobenzene 0.078 (0.1)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM29 10/11/23-1: CP22077, CP22079, CP22080



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Analysis Comments

October 30, 2023

SDG I.D.: GCP22077

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.071 (0.1), Hexachlorobenzene 0.081 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: N-Nitrosodimethylamine 32%L (30%), Pyridine 36%L (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.080 (0.1), Bis(2-chloroethyl)ether 0.694 (0.7), Hexachlorobenzene 0.086 (0.1)

The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

VOA Narration

CHEM03 10/12/23-2: CP22080

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 30% (20%), Chloroethane 22% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: Acrolein 0.048 (0.05), Tetrachloroethene 0.197 (0.2)

The following Initial Calibration compounds did not meet minimum response factors: Acrolein 0.048 (0.05)

The following Continuing Calibration compounds did not meet recommended response factors: Acrolein 0.045 (0.05)

The following Continuing Calibration compounds did not meet minimum response factors: Acrolein 0.048 (0.05)

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM18 10/12/23-1: CP22077, CP22078, CP22079, CP22081

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 23% (20%), Acetone 21% (20%), trans-1,4-dichloro-2-butene 33% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: Bromoform 0.097 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM18 10/13/23-1: CP22082

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 23% (20%), Acetone 21% (20%), trans-1,4-dichloro-2-butene 33% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: Bromoform 0.097 (0.1)

The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Dichlorodifluoromethane 32%H (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.



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NY Temperature Narration

October 30, 2023

SDG I.D.: GCP22077

The samples in this delivery group were received at 1.8°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

[illegible]



Friday, October 13, 2023

Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Project ID: 28 PUTNAM AVENUE
SDG ID: GCP23148
Sample ID#s: CP23148 - CP23151

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
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Sample Id Cross Reference

October 13, 2023

SDG I.D.: GCP23148

Project ID: 28 PUTNAM AVENUE

Client Id	Lab Id	Matrix
SV 3	CP23148	AIR
SV 1	CP23149	AIR
SV 2	CP23150	AIR
SV 4	CP23151	AIR



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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Analysis Report

October 13, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Sample Information

Matrix: AIR
Location Code: BRUSSEE
Rush Request: Standard
P.O.#:
Canister Id: 19887

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

10/10/23
10/11/23

Time

9:44
16:09

Laboratory Data

SDG ID: GCP23148
Phoenix ID: CP23148

Project ID: 28 PUTNAM AVENUE
Client ID: SV 3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.729	ND	5.00	10/12/23	KCA	5
1,1,1-Trichloroethane	ND	0.917	ND	5.00	10/12/23	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	10/12/23	KCA	5
1,1,2-Trichloroethane	ND	0.917	ND	5.00	10/12/23	KCA	5
1,1-Dichloroethane	ND	1.24	ND	5.02	10/12/23	KCA	5
1,1-Dichloroethene	ND	0.252	ND	1.00	10/12/23	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	10/12/23	KCA	5
1,2,4-Trimethylbenzene	3.43	1.02	16.9	5.01	10/12/23	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	10/12/23	KCA	5
1,2-Dichlorobenzene	ND	0.832	ND	5.00	10/12/23	KCA	5
1,2-Dichloroethane	ND	1.24	ND	5.02	10/12/23	KCA	5
1,2-dichloropropane	ND	1.08	ND	4.99	10/12/23	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	10/12/23	KCA	5
1,3,5-Trimethylbenzene	1.10	1.02	5.40	5.01	10/12/23	KCA	5
1,3-Butadiene	ND	2.26	ND	5.00	10/12/23	KCA	5
1,3-Dichlorobenzene	ND	0.832	ND	5.00	10/12/23	KCA	5
1,4-Dichlorobenzene	ND	0.832	ND	5.00	10/12/23	KCA	5
1,4-Dioxane	ND	1.39	ND	5.01	10/12/23	KCA	5
2-Hexanone(MBK)	ND	1.22	ND	4.99	10/12/23	KCA	5
4-Ethyltoluene	3.35	1.02	16.5	5.01	10/12/23	KCA	5
4-Isopropyltoluene	ND	0.911	ND	5.00	10/12/23	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	10/12/23	KCA	5
Acetone	24.4	2.11	57.9	5.01	10/12/23	KCA	5
Acrylonitrile	ND	2.31	ND	5.01	10/12/23	KCA	5
Benzene	ND	1.57	ND	5.01	10/12/23	KCA	5
Benzyl chloride	ND	0.966	ND	5.00	10/12/23	KCA	5

Client ID: SV 3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.747	ND	5.00	10/12/23	KCA	5	
Bromoform	ND	0.484	ND	5.00	10/12/23	KCA	5	
Bromomethane	ND	1.29	ND	5.01	10/12/23	KCA	5	
Carbon Disulfide	2.27	1.61	7.06	5.01	10/12/23	KCA	5	
Carbon Tetrachloride	ND	0.159	ND	1.00	10/12/23	KCA	5	
Chlorobenzene	ND	1.09	ND	5.01	10/12/23	KCA	5	
Chloroethane	ND	1.90	ND	5.01	10/12/23	KCA	5	
Chloroform	ND	1.02	ND	4.98	10/12/23	KCA	5	
Chloromethane	ND	2.42	ND	4.99	10/12/23	KCA	5	
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	10/12/23	KCA	5	
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	10/12/23	KCA	5	
Cyclohexane	ND	1.45	ND	4.99	10/12/23	KCA	5	
Dibromochloromethane	ND	0.587	ND	5.00	10/12/23	KCA	5	
Dichlorodifluoromethane	ND	1.01	ND	4.99	10/12/23	KCA	5	
Ethanol	8.71	2.66	16.4	5.01	10/12/23	KCA	5	1
Ethyl acetate	ND	1.39	ND	5.01	10/12/23	KCA	5	1
Ethylbenzene	2.08	1.15	9.03	4.99	10/12/23	KCA	5	
Heptane	ND	1.22	ND	5.00	10/12/23	KCA	5	
Hexachlorobutadiene	ND	0.469	ND	5.00	10/12/23	KCA	5	
Hexane	ND	1.42	ND	5.00	10/12/23	KCA	5	
Isopropylalcohol	ND	2.04	ND	5.01	10/12/23	KCA	5	
Isopropylbenzene	ND	1.02	ND	5.01	10/12/23	KCA	5	
m,p-Xylene	8.63	1.15	37.5	4.99	10/12/23	KCA	5	
Methyl Ethyl Ketone	2.52	1.70	7.43	5.01	10/12/23	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	10/12/23	KCA	5	
Methylene Chloride	ND	4.32	ND	15.0	10/12/23	KCA	5	
n-Butylbenzene	ND	0.911	ND	5.00	10/12/23	KCA	5	1
o-Xylene	3.83	1.15	16.6	4.99	10/12/23	KCA	5	
Propylene	3.60	2.91	6.19	5.01	10/12/23	KCA	5	1
sec-Butylbenzene	ND	0.911	ND	5.00	10/12/23	KCA	5	1
Styrene	ND	1.17	ND	4.98	10/12/23	KCA	5	
Tetrachloroethene	21.0	0.184	142	1.25	10/12/23	KCA	5	
Tetrahydrofuran	ND	1.70	ND	5.01	10/12/23	KCA	5	1
Toluene	6.21	1.33	23.4	5.01	10/12/23	KCA	5	
Trans-1,2-Dichloroethene	ND	1.26	ND	4.99	10/12/23	KCA	5	
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	10/12/23	KCA	5	
Trichloroethene	ND	0.185	ND	0.99	10/12/23	KCA	5	
Trichlorofluoromethane	ND	0.891	ND	5.00	10/12/23	KCA	5	
Trichlorotrifluoroethane	ND	0.653	ND	5.00	10/12/23	KCA	5	
Vinyl Chloride	ND	0.390	ND	1.00	10/12/23	KCA	5	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene (5x)	103	%	103	%	10/12/23	KCA	5	
% IS-1,4-Difluorobenzene (5x)	87	%	87	%	10/12/23	KCA	5	
% IS-Bromochloromethane (5x)	93	%	93	%	10/12/23	KCA	5	
% IS-Chlorobenzene-d5 (5x)	88	%	88	%	10/12/23	KCA	5	

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

October 13, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 13, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Sample Information

Matrix: AIR
Location Code: BRUSSEE
Rush Request: Standard
P.O.#:
Canister Id: 4624

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

10/10/23 10:01
10/11/23 16:09

Time

Project ID: 28 PUTNAM AVENUE
Client ID: SV 1

Laboratory Data

SDG ID: GCP23148
Phoenix ID: CP23149

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.729	ND	5.00	10/12/23	KCA	5
1,1,1-Trichloroethane	ND	0.917	ND	5.00	10/12/23	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	10/12/23	KCA	5
1,1,2-Trichloroethane	ND	0.917	ND	5.00	10/12/23	KCA	5
1,1-Dichloroethane	ND	1.24	ND	5.02	10/12/23	KCA	5
1,1-Dichloroethene	ND	0.252	ND	1.00	10/12/23	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	10/12/23	KCA	5
1,2,4-Trimethylbenzene	3.44	1.02	16.9	5.01	10/12/23	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	10/12/23	KCA	5
1,2-Dichlorobenzene	ND	0.832	ND	5.00	10/12/23	KCA	5
1,2-Dichloroethane	ND	1.24	ND	5.02	10/12/23	KCA	5
1,2-dichloropropane	ND	1.08	ND	4.99	10/12/23	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	10/12/23	KCA	5
1,3,5-Trimethylbenzene	1.06	1.02	5.21	5.01	10/12/23	KCA	5
1,3-Butadiene	ND	2.26	ND	5.00	10/12/23	KCA	5
1,3-Dichlorobenzene	ND	0.832	ND	5.00	10/12/23	KCA	5
1,4-Dichlorobenzene	ND	0.832	ND	5.00	10/12/23	KCA	5
1,4-Dioxane	ND	1.39	ND	5.01	10/12/23	KCA	5
2-Hexanone(MBK)	ND	1.22	ND	4.99	10/12/23	KCA	5
4-Ethyltoluene	3.21	1.02	15.8	5.01	10/12/23	KCA	5
4-Isopropyltoluene	ND	0.911	ND	5.00	10/12/23	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	10/12/23	KCA	5
Acetone	10.5	2.11	24.9	5.01	10/12/23	KCA	5
Acrylonitrile	ND	2.31	ND	5.01	10/12/23	KCA	5
Benzene	ND	1.57	ND	5.01	10/12/23	KCA	5
Benzyl chloride	ND	0.966	ND	5.00	10/12/23	KCA	5

Client ID: SV 1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.747	ND	5.00	10/12/23	KCA	5
Bromoform	ND	0.484	ND	5.00	10/12/23	KCA	5
Bromomethane	ND	1.29	ND	5.01	10/12/23	KCA	5
Carbon Disulfide	ND	1.61	ND	5.01	10/12/23	KCA	5
Carbon Tetrachloride	ND	0.159	ND	1.00	10/12/23	KCA	5
Chlorobenzene	ND	1.09	ND	5.01	10/12/23	KCA	5
Chloroethane	ND	1.90	ND	5.01	10/12/23	KCA	5
Chloroform	ND	1.02	ND	4.98	10/12/23	KCA	5
Chloromethane	ND	2.42	ND	4.99	10/12/23	KCA	5
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	10/12/23	KCA	5
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	10/12/23	KCA	5
Cyclohexane	ND	1.45	ND	4.99	10/12/23	KCA	5
Dibromochloromethane	ND	0.587	ND	5.00	10/12/23	KCA	5
Dichlorodifluoromethane	ND	1.01	ND	4.99	10/12/23	KCA	5
Ethanol	4.36	2.66	8.21	5.01	10/12/23	KCA	5 1
Ethyl acetate	ND	1.39	ND	5.01	10/12/23	KCA	5 1
Ethylbenzene	1.71	1.15	7.42	4.99	10/12/23	KCA	5
Heptane	ND	1.22	ND	5.00	10/12/23	KCA	5
Hexachlorobutadiene	ND	0.469	ND	5.00	10/12/23	KCA	5
Hexane	ND	1.42	ND	5.00	10/12/23	KCA	5
Isopropylalcohol	ND	2.04	ND	5.01	10/12/23	KCA	5
Isopropylbenzene	ND	1.02	ND	5.01	10/12/23	KCA	5
m,p-Xylene	7.29	1.15	31.6	4.99	10/12/23	KCA	5
Methyl Ethyl Ketone	ND	1.70	ND	5.01	10/12/23	KCA	5
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	10/12/23	KCA	5
Methylene Chloride	ND	4.32	ND	15.0	10/12/23	KCA	5
n-Butylbenzene	ND	0.911	ND	5.00	10/12/23	KCA	5 1
o-Xylene	3.21	1.15	13.9	4.99	10/12/23	KCA	5
Propylene	ND	2.91	ND	5.01	10/12/23	KCA	5 1
sec-Butylbenzene	ND	0.911	ND	5.00	10/12/23	KCA	5 1
Styrene	ND	1.17	ND	4.98	10/12/23	KCA	5
Tetrachloroethene	16.1	0.184	109	1.25	10/12/23	KCA	5
Tetrahydrofuran	ND	1.70	ND	5.01	10/12/23	KCA	5 1
Toluene	5.35	1.33	20.1	5.01	10/12/23	KCA	5
Trans-1,2-Dichloroethene	ND	1.26	ND	4.99	10/12/23	KCA	5
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	10/12/23	KCA	5
Trichloroethene	ND	0.185	ND	0.99	10/12/23	KCA	5
Trichlorofluoromethane	ND	0.891	ND	5.00	10/12/23	KCA	5
Trichlorotrifluoroethane	ND	0.653	ND	5.00	10/12/23	KCA	5
Vinyl Chloride	ND	0.390	ND	1.00	10/12/23	KCA	5
<u>QA/QC Surrogates/Internals</u>							
% Bromofluorobenzene (5x)	101	%	101	%	10/12/23	KCA	5
% IS-1,4-Difluorobenzene (5x)	87	%	87	%	10/12/23	KCA	5
% IS-Bromochloromethane (5x)	99	%	99	%	10/12/23	KCA	5
% IS-Chlorobenzene-d5 (5x)	88	%	88	%	10/12/23	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

October 13, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 13, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Sample Information

Matrix: AIR
Location Code: BRUSSEE
Rush Request: Standard
P.O.#:
Canister Id: 23318

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

10/10/23 9:56
10/11/23 16:09

Time

Project ID: 28 PUTNAM AVENUE
Client ID: SV 2

Laboratory Data

SDG ID: GCP23148
Phoenix ID: CP23150

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.729	ND	5.00	10/12/23	KCA	5
1,1,1-Trichloroethane	ND	0.917	ND	5.00	10/12/23	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	10/12/23	KCA	5
1,1,2-Trichloroethane	ND	0.917	ND	5.00	10/12/23	KCA	5
1,1-Dichloroethane	ND	1.24	ND	5.02	10/12/23	KCA	5
1,1-Dichloroethene	ND	0.252	ND	1.00	10/12/23	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	10/12/23	KCA	5
1,2,4-Trimethylbenzene	2.34	1.02	11.5	5.01	10/12/23	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	10/12/23	KCA	5
1,2-Dichlorobenzene	ND	0.832	ND	5.00	10/12/23	KCA	5
1,2-Dichloroethane	ND	1.24	ND	5.02	10/12/23	KCA	5
1,2-dichloropropane	ND	1.08	ND	4.99	10/12/23	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	10/12/23	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	ND	5.01	10/12/23	KCA	5
1,3-Butadiene	ND	2.26	ND	5.00	10/12/23	KCA	5
1,3-Dichlorobenzene	ND	0.832	ND	5.00	10/12/23	KCA	5
1,4-Dichlorobenzene	ND	0.832	ND	5.00	10/12/23	KCA	5
1,4-Dioxane	ND	1.39	ND	5.01	10/12/23	KCA	5
2-Hexanone(MBK)	ND	1.22	ND	4.99	10/12/23	KCA	5
4-Ethyltoluene	2.08	1.02	10.2	5.01	10/12/23	KCA	5
4-Isopropyltoluene	ND	0.911	ND	5.00	10/12/23	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	10/12/23	KCA	5
Acetone	7.99	2.11	19.0	5.01	10/12/23	KCA	5
Acrylonitrile	ND	2.31	ND	5.01	10/12/23	KCA	5
Benzene	ND	1.57	ND	5.01	10/12/23	KCA	5
Benzyl chloride	ND	0.966	ND	5.00	10/12/23	KCA	5

Client ID: SV 2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.747	ND	5.00	10/12/23	KCA	5	
Bromoform	ND	0.484	ND	5.00	10/12/23	KCA	5	
Bromomethane	ND	1.29	ND	5.01	10/12/23	KCA	5	
Carbon Disulfide	ND	1.61	ND	5.01	10/12/23	KCA	5	
Carbon Tetrachloride	ND	0.159	ND	1.00	10/12/23	KCA	5	
Chlorobenzene	ND	1.09	ND	5.01	10/12/23	KCA	5	
Chloroethane	ND	1.90	ND	5.01	10/12/23	KCA	5	
Chloroform	ND	1.02	ND	4.98	10/12/23	KCA	5	
Chloromethane	ND	2.42	ND	4.99	10/12/23	KCA	5	
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	10/12/23	KCA	5	
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	10/12/23	KCA	5	
Cyclohexane	ND	1.45	ND	4.99	10/12/23	KCA	5	
Dibromochloromethane	ND	0.587	ND	5.00	10/12/23	KCA	5	
Dichlorodifluoromethane	ND	1.01	ND	4.99	10/12/23	KCA	5	
Ethanol	3.85	2.66	7.25	5.01	10/12/23	KCA	5	1
Ethyl acetate	ND	1.39	ND	5.01	10/12/23	KCA	5	1
Ethylbenzene	1.20	1.15	5.21	4.99	10/12/23	KCA	5	
Heptane	ND	1.22	ND	5.00	10/12/23	KCA	5	
Hexachlorobutadiene	ND	0.469	ND	5.00	10/12/23	KCA	5	
Hexane	ND	1.42	ND	5.00	10/12/23	KCA	5	
Isopropylalcohol	ND	2.04	ND	5.01	10/12/23	KCA	5	
Isopropylbenzene	ND	1.02	ND	5.01	10/12/23	KCA	5	
m,p-Xylene	4.89	1.15	21.2	4.99	10/12/23	KCA	5	
Methyl Ethyl Ketone	ND	1.70	ND	5.01	10/12/23	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	10/12/23	KCA	5	
Methylene Chloride	ND	4.32	ND	15.0	10/12/23	KCA	5	
n-Butylbenzene	ND	0.911	ND	5.00	10/12/23	KCA	5	1
o-Xylene	2.20	1.15	9.5	4.99	10/12/23	KCA	5	
Propylene	ND	2.91	ND	5.01	10/12/23	KCA	5	1
sec-Butylbenzene	ND	0.911	ND	5.00	10/12/23	KCA	5	1
Styrene	ND	1.17	ND	4.98	10/12/23	KCA	5	
Tetrachloroethene	12.8	0.184	86.8	1.25	10/12/23	KCA	5	
Tetrahydrofuran	ND	1.70	ND	5.01	10/12/23	KCA	5	1
Toluene	3.77	1.33	14.2	5.01	10/12/23	KCA	5	
Trans-1,2-Dichloroethene	ND	1.26	ND	4.99	10/12/23	KCA	5	
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	10/12/23	KCA	5	
Trichloroethene	ND	0.185	ND	0.99	10/12/23	KCA	5	
Trichlorofluoromethane	ND	0.891	ND	5.00	10/12/23	KCA	5	
Trichlorotrifluoroethane	ND	0.653	ND	5.00	10/12/23	KCA	5	
Vinyl Chloride	ND	0.390	ND	1.00	10/12/23	KCA	5	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene (5x)	101	%	101	%	10/12/23	KCA	5	
% IS-1,4-Difluorobenzene (5x)	87	%	87	%	10/12/23	KCA	5	
% IS-Bromochloromethane (5x)	93	%	93	%	10/12/23	KCA	5	
% IS-Chlorobenzene-d5 (5x)	89	%	89	%	10/12/23	KCA	5	

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

October 13, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 13, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Sample Information

Matrix: AIR
Location Code: BRUSSEE
Rush Request: Standard
P.O.#:
Canister Id: 19816

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

10/10/23 9:50
10/11/23 16:09

Time

Project ID: 28 PUTNAM AVENUE
Client ID: SV 4

Laboratory Data

SDG ID: GCP23148
Phoenix ID: CP23151

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.729	ND	5.00	10/12/23	KCA	5
1,1,1-Trichloroethane	ND	0.917	ND	5.00	10/12/23	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	10/12/23	KCA	5
1,1,2-Trichloroethane	ND	0.917	ND	5.00	10/12/23	KCA	5
1,1-Dichloroethane	ND	1.24	ND	5.02	10/12/23	KCA	5
1,1-Dichloroethene	ND	0.252	ND	1.00	10/12/23	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	10/12/23	KCA	5
1,2,4-Trimethylbenzene	2.67	1.02	13.1	5.01	10/12/23	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	10/12/23	KCA	5
1,2-Dichlorobenzene	ND	0.832	ND	5.00	10/12/23	KCA	5
1,2-Dichloroethane	ND	1.24	ND	5.02	10/12/23	KCA	5
1,2-dichloropropane	ND	1.08	ND	4.99	10/12/23	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	10/12/23	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	ND	5.01	10/12/23	KCA	5
1,3-Butadiene	ND	2.26	ND	5.00	10/12/23	KCA	5
1,3-Dichlorobenzene	ND	0.832	ND	5.00	10/12/23	KCA	5
1,4-Dichlorobenzene	ND	0.832	ND	5.00	10/12/23	KCA	5
1,4-Dioxane	ND	1.39	ND	5.01	10/12/23	KCA	5
2-Hexanone(MBK)	ND	1.22	ND	4.99	10/12/23	KCA	5
4-Ethyltoluene	3.30	1.02	16.2	5.01	10/12/23	KCA	5
4-Isopropyltoluene	ND	0.911	ND	5.00	10/12/23	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	10/12/23	KCA	5
Acetone	16.3	2.11	38.7	5.01	10/12/23	KCA	5
Acrylonitrile	ND	2.31	ND	5.01	10/12/23	KCA	5
Benzene	ND	1.57	ND	5.01	10/12/23	KCA	5
Benzyl chloride	ND	0.966	ND	5.00	10/12/23	KCA	5

Client ID: SV 4

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.747	ND	5.00	10/12/23	KCA	5	
Bromoform	ND	0.484	ND	5.00	10/12/23	KCA	5	
Bromomethane	ND	1.29	ND	5.01	10/12/23	KCA	5	
Carbon Disulfide	ND	1.61	ND	5.01	10/12/23	KCA	5	
Carbon Tetrachloride	ND	0.159	ND	1.00	10/12/23	KCA	5	
Chlorobenzene	ND	1.09	ND	5.01	10/12/23	KCA	5	
Chloroethane	ND	1.90	ND	5.01	10/12/23	KCA	5	
Chloroform	5.29	1.02	25.8	4.98	10/12/23	KCA	5	
Chloromethane	ND	2.42	ND	4.99	10/12/23	KCA	5	
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	10/12/23	KCA	5	
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	10/12/23	KCA	5	
Cyclohexane	ND	1.45	ND	4.99	10/12/23	KCA	5	
Dibromochloromethane	ND	0.587	ND	5.00	10/12/23	KCA	5	
Dichlorodifluoromethane	ND	1.01	ND	4.99	10/12/23	KCA	5	
Ethanol	6.30	2.66	11.9	5.01	10/12/23	KCA	5	1
Ethyl acetate	ND	1.39	ND	5.01	10/12/23	KCA	5	1
Ethylbenzene	3.32	1.15	14.4	4.99	10/12/23	KCA	5	
Heptane	ND	1.22	ND	5.00	10/12/23	KCA	5	
Hexachlorobutadiene	ND	0.469	ND	5.00	10/12/23	KCA	5	
Hexane	ND	1.42	ND	5.00	10/12/23	KCA	5	
Isopropylalcohol	ND	2.04	ND	5.01	10/12/23	KCA	5	
Isopropylbenzene	ND	1.02	ND	5.01	10/12/23	KCA	5	
m,p-Xylene	13.9	1.15	60.3	4.99	10/12/23	KCA	5	
Methyl Ethyl Ketone	1.98	1.70	5.84	5.01	10/12/23	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	10/12/23	KCA	5	
Methylene Chloride	ND	4.32	ND	15.0	10/12/23	KCA	5	
n-Butylbenzene	ND	0.911	ND	5.00	10/12/23	KCA	5	1
o-Xylene	5.06	1.15	22.0	4.99	10/12/23	KCA	5	
Propylene	6.81	2.91	11.7	5.01	10/12/23	KCA	5	1
sec-Butylbenzene	ND	0.911	ND	5.00	10/12/23	KCA	5	1
Styrene	ND	1.17	ND	4.98	10/12/23	KCA	5	
Tetrachloroethene	22.2	0.184	150	1.25	10/12/23	KCA	5	
Tetrahydrofuran	ND	1.70	ND	5.01	10/12/23	KCA	5	1
Toluene	10.9	1.33	41.1	5.01	10/12/23	KCA	5	
Trans-1,2-Dichloroethene	ND	1.26	ND	4.99	10/12/23	KCA	5	
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	10/12/23	KCA	5	
Trichloroethene	ND	0.185	ND	0.99	10/12/23	KCA	5	
Trichlorofluoromethane	ND	0.891	ND	5.00	10/12/23	KCA	5	
Trichlorotrifluoroethane	ND	0.653	ND	5.00	10/12/23	KCA	5	
Vinyl Chloride	ND	0.390	ND	1.00	10/12/23	KCA	5	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene (5x)	103	%	103	%	10/12/23	KCA	5	
% IS-1,4-Difluorobenzene (5x)	86	%	86	%	10/12/23	KCA	5	
% IS-Bromochloromethane (5x)	91	%	91	%	10/12/23	KCA	5	
% IS-Chlorobenzene-d5 (5x)	88	%	88	%	10/12/23	KCA	5	

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

October 13, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Canister Sampling Information

October 13, 2023

FOR: Attn: Mr Kevin Brussee
Brussee Environmental Corp
1150 Lincoln Avenue – Suite 4
Holbrook, NY 11741

Location Code: BRUSSEE

SDG I.D.: GCP23148

Project ID: 28 PUTNAM AVENUE

Client Id	Lab Id	Canister		Reg. Id	Chk Out Date	Laboratory					Field			
		Id	Type			Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
SV 3	CP23148	19887	6.0L	7025	10/06/23	-30	-5	44	44	0.0	-28	-4	10/10/23 09:44	10/10/23 00:00
SV 1	CP23149	4624	6.0L	10588	10/06/23	-30	-2	45	46	2.2	-30	-5	10/10/23 10:01	10/10/23 00:00
SV 2	CP23150	23318	6.0L	6998	10/06/23	-30	-1	43	44	2.3	-30	-5	10/10/23 09:56	10/10/23 00:00
SV 4	CP23151	19816	6.0L	7029	10/06/23	-30	-2	43	43	0.0	-30	-6	10/10/23 09:50	10/10/23 00:00



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



QA/QC Report

October 13, 2023

QA/QC Data

SDG I.D.: GCP23148

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 701423 (ppbv), QC Sample No: CP22668 (CP23148 (5X) , CP23149 (5X) , CP23150 (5X) , CP23151 (5X))												
<u>Volatiles</u>												
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	113	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.250	ND	1.36	115	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	106	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.010	ND	0.05	102	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.075	ND	0.30	109	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.100	ND	0.40	111	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	141	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	108	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	102	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.050	ND	0.30	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.010	ND	0.04	110	0.18	0.20	0.044	0.050	NC	70 - 130	25
1,2-dichloropropane	ND	0.010	ND	0.05	100	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	116	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	107	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.250	ND	0.55	109	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.050	ND	0.30	105	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.040	ND	0.24	107	0.27	0.26	0.045	0.043	NC	70 - 130	25
1,4-Dioxane	ND	0.065	ND	0.23	97	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.250	ND	1.02	105	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.250	ND	1.23	109	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.250	ND	1.37	105	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	103	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.375	ND	0.89	109	40.4	42.3	17.0	17.8	4.6	70 - 130	25
Acrylonitrile	ND	0.250	ND	0.54	106	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.100	ND	0.32	110	1.12	1.12	0.350	0.352	NC	70 - 130	25
Benzyl chloride	ND	0.250	ND	1.29	118	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.010	ND	0.07	103	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.075	ND	0.77	116	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.070	ND	0.27	109	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.250	ND	0.78	108	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.043	ND	0.27	117	0.49	0.52	0.078	0.082	NC	70 - 130	25
Chlorobenzene	ND	0.100	ND	0.46	105	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.250	ND	0.66	103	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.100	ND	0.49	103	1.49	1.64	0.306	0.337	NC	70 - 130	25
Chloromethane	ND	0.250	ND	0.52	116	1.11	1.18	0.540	0.570	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	108	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	105	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.250	ND	0.86	108	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.010	ND	0.09	111	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.250	ND	1.24	117	2.59	2.61	0.525	0.529	NC	70 - 130	25
Ethanol	ND	0.375	ND	0.71	160	43.3 E	45.4	23.0 E	24.1	4.7	70 - 130	25

QA/QC Data

SDG I.D.: GCP23148

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	0.250	ND	0.90	72	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.250	ND	1.08	102	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.250	ND	1.02	99	1.09	1.28	0.266	0.312	NC	70 - 130	25
Hexachlorobutadiene	ND	0.005	ND	0.05	136	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.225	ND	0.79	101	1.14	1.12	0.324	0.317	NC	70 - 130	25
Isopropylalcohol	ND	0.375	ND	0.92	117	34.4	36.6	14.0	14.9	6.2	70 - 130	25
Isopropylbenzene	ND	0.250	ND	1.23	109	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.500	ND	2.17	106	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.225	ND	0.66	110	2.05	2.19	0.696	0.742	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	107	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	1.50	ND	5.21	111	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.250	ND	1.37	106	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.250	ND	1.08	103	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.250	ND	0.43	116	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.250	ND	1.37	107	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.100	ND	0.43	105	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.050	ND	0.34	100	1.66	1.67	0.245	0.247	NC	70 - 130	25
Tetrahydrofuran	ND	0.250	ND	0.74	121	ND	0.98	ND	0.333	NC	70 - 130	25
Toluene	ND	0.250	ND	0.94	101	3.92	4.22	1.04	1.12	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	109	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	109	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.025	ND	0.13	101	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.250	ND	1.40	116	1.66	1.74	0.296	0.310	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.250	ND	1.91	113	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.050	ND	0.13	114	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	103	%	103	%	96	102	106	102	106	NC	70 - 130	25
% IS-1,4-Difluorobenzene	100	%	100	%	98	92	85	92	85	NC	60 - 140	25
% IS-Bromochloromethane	120	%	120	%	100	97	92	97	92	NC	60 - 140	25
% IS-Chlorobenzene-d5	98	%	98	%	105	93	83	93	83	NC	60 - 140	25

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

October 13, 2023

Friday, October 13, 2023

Criteria: None
State: NY

Sample Criteria Exceedances Report
GCP23148 - BRUSSEE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

October 13, 2023

SDG I.D.: GCP23148

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

AIRSIM

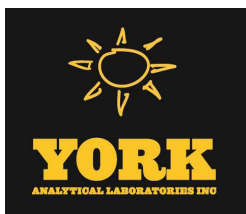
CHEM20 10/11/23-1: CP23148, CP23149, CP23150, CP23151

The following Initial Calibration compounds did not meet RSD% criteria: Ethanol 52% (30%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: Ethanol 52% (30%)

APPENDIX G

Laboratory Reports - York



Technical Report for Emerging Contaminants

prepared for:

Brussee Environmental Corp.
14 Evans Lane
Miller Place NY, 11764
Attention: Pat Recio

Report Date: 10/17/2023
Client Project ID: WMK2301 28 Putnam Ave
York Project (SDG) No.: 23J0629

CT Cert. Nos. PH-0723, PH-0800, PH-0721
New Jersey Cert. Nos. CT005 and NY037



New York Cert. Nos. 10854 and 12058
Pennsylvania Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371



132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 10/17/2023
Client Project ID: WMK2301 28 Putnam Ave
York Project (SDG) No.: 23J0629

Brussee Environmental Corp.
14 Evans Lane
Miller Place NY, 11764
Attention: Pat Recio

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 10, 2023 and listed below. The project was identified as your project: **WMK2301 28 Putnam Ave.**

The analyses were conducted utilizing appropriate EPA methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

Please contact Client Services at 203.325.1371 with any questions regarding this report or e-mail clientservices@yorklab.com.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
23J0629-01	SB3 (4-6)	Soil	10/09/2023	10/10/2023

General Notes for York Project (SDG) No.: 23J0629

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Cassie L. Mosher
Laboratory Manager

Date: 10/17/2023





Sample Information

Client Sample ID: SB3 (4-6)

York Sample ID: 23J0629-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23J0629

WMK2301 28 Putnam Ave

Soil

October 9, 2023 11:30 am

10/10/2023

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL	Units				
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
2355-31-9	* N-MeFOSAA	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
2991-50-6	* N-EtFOSAA	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		0	ug/kg dry	1.23	EPA 537m	10/15/2023 12:00	KT
					Certifications:			10/17/2023 01:27	



Sample Information

Client Sample ID: SB3 (4-6)

York Sample ID: 23J0629-01

York Project (SDG) No.
23J0629

Client Project ID
WMK2301 28 Putnam Ave

Matrix
Soil

Collection Date/Time
October 9, 2023 11:30 am

Date Received
10/10/2023

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: M3PFBS	81.6 %		25-150						
	Surrogate: M5PFHxA	89.6 %		25-150						
	Surrogate: M4PFHpA	81.4 %		25-150						
	Surrogate: M3PFHxS	68.1 %		25-150						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	84.3 %		25-150						
	Surrogate: M6PFDA	90.3 %		25-150						
	Surrogate: M7PFUdA	69.3 %		25-150						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	62.6 %		25-150						
	Surrogate: M2PFTeDA	58.8 %		10-150						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	32.3 %		25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	90.9 %		25-150						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	97.0 %		25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	80.0 %		10-150						
	Surrogate: d3-N-MeFOSAA	68.5 %		25-150						
	Surrogate: d5-N-EtFOSAA	60.3 %		25-150						
	Surrogate: M2-6:2 FTS	102 %		25-200						
	Surrogate: M2-8:2 FTS	73.4 %		25-200						
	Surrogate: M9PFNA	77.4 %		25-150						

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
solids	* % Solids	96.5		100		%	0.100	SM 2540G	10/11/2023 12:27	AC
						Certifications:	CTDOH-PH-0723		10/11/2023 15:46	



Analytical Batch Summary

Batch ID: BJ30092 **Preparation Method:** % Solids Prep **Prepared By:** AC

YORK Sample ID	Client Sample ID	Preparation Date
23J0629-01	SB3 (4-6)	10/11/23
BJ30092-DUP1	Duplicate	10/11/23

Batch ID: BJ30986 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** J D

YORK Sample ID	Client Sample ID	Preparation Date
23J0629-01	SB3 (4-6)	10/15/23
BJ30986-BS1	LCS	10/15/23
BJ30986-MS1	Matrix Spike	10/15/23
BJ30986-MS2	Matrix Spike	10/15/23
BJ30986-MSD1	Matrix Spike Dup	10/15/23



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ30986 - SPE PFAS Extraction-Soil-EPA 537m

LCS (BJ30986-BS1)

Prepared: 10/15/2023 Analyzed: 10/17/2023

Perfluorobutanesulfonic acid (PFBS)	4.26	0.227	ug/kg wet	4.02		106	50-130				
Perfluorohexanoic acid (PFHxA)	4.52	0.227	"	4.55		99.4	50-130				
Perfluoroheptanoic acid (PFHpA)	5.09	0.227	"	4.55		112	50-130				
Perfluorohexanesulfonic acid (PFHxS)	3.69	0.227	"	4.14		89.2	50-130				
Perfluorooctanoic acid (PFOA)	4.31	0.227	"	4.55		94.9	50-130				
Perfluorooctanesulfonic acid (PFOS)	5.24	0.227	"	4.20		125	50-130				
Perfluorononanoic acid (PFNA)	5.13	0.227	"	4.55		113	50-130				
Perfluorodecanoic acid (PFDA)	5.29	0.227	"	4.55		116	50-130				
Perfluoroundecanoic acid (PFUnA)	5.58	0.227	"	4.55		123	50-130				
Perfluorododecanoic acid (PFDoA)	4.99	0.227	"	4.55		110	50-130				
Perfluorotridecanoic acid (PFTrDA)	5.51	0.227	"	4.55		121	50-130				
Perfluorotetradecanoic acid (PFTA)	4.05	0.227	"	4.55		89.0	50-130				
N-MeFOSAA	5.53	0.227	"	4.55		122	50-130				
N-EtFOSAA	5.09	0.227	"	4.55		112	50-130				
Perfluoropentanoic acid (PFPeA)	4.80	0.227	"	4.55		106	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	4.24	0.227	"	4.55		93.2	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.42	0.227	"	4.34		125	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	4.50	0.227	"	4.39		103	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	2.98	0.227	"	4.32		68.9	50-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	4.04	0.227	"	4.36		92.5	50-200				
Perfluoro-n-butanoic acid (PFBA)	4.75	0.227	"	4.55		105	50-130				
Surrogate: M3PFBS	3.50		"	4.55		77.1	25-150				
Surrogate: M5PFHxA	4.46		"	4.55		98.2	25-150				
Surrogate: M4PFHpA	3.83		"	4.55		84.3	25-150				
Surrogate: M3PFHxS	4.26		"	4.55		93.8	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.43		"	4.55		97.4	25-150				
Surrogate: M6PFDA	3.84		"	4.55		84.4	25-150				
Surrogate: M7PFUdA	3.59		"	4.55		79.1	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	4.19		"	4.55		92.3	25-150				
Surrogate: M2PFTeDA	4.40		"	4.55		96.7	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	1.94		"	4.55		42.8	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.68		"	4.55		81.0	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.65		"	4.55		102	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.84		"	4.55		84.5	10-150				
Surrogate: d3-N-MeFOSAA	2.89		"	4.55		63.6	25-150				
Surrogate: d5-N-EtFOSAA	3.65		"	4.55		80.3	25-150				
Surrogate: M2-6:2 FTS	3.76		"	4.55		82.7	25-200				
Surrogate: M2-8:2 FTS	2.91		"	4.55		64.1	25-200				
Surrogate: M9PFNA	3.91		"	4.55		86.1	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ30986 - SPE PFAS Extraction-Soil-EPA 537m

Matrix Spike (BJ30986-MS1)	*Source sample: 23J0629-01 (SB3 (4-6))						Prepared: 10/15/2023 Analyzed: 10/17/2023				
Perfluorobutanesulfonic acid (PFBS)	4.50	0.239	ug/kg dry	4.23	ND	106	25-150				
Perfluorohexanoic acid (PFHxA)	4.68	0.239	"	4.78	ND	97.9	25-150				
Perfluoroheptanoic acid (PFHpA)	6.78	0.239	"	4.78	ND	142	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.21	0.239	"	4.35	ND	96.8	25-150				
Perfluorooctanoic acid (PFOA)	5.44	0.239	"	4.78	ND	114	25-150				
Perfluorooctanesulfonic acid (PFOS)	4.55	0.239	"	4.42	ND	103	25-150				
Perfluorononanoic acid (PFNA)	4.95	0.239	"	4.78	ND	104	25-150				
Perfluorodecanoic acid (PFDA)	4.57	0.239	"	4.78	ND	95.7	25-150				
Perfluoroundecanoic acid (PFUnA)	4.77	0.239	"	4.78	ND	99.8	25-150				
Perfluorododecanoic acid (PFDoA)	5.19	0.239	"	4.78	ND	109	25-150				
Perfluorotridecanoic acid (PFTriDA)	5.70	0.239	"	4.78	0.414	111	25-150				
Perfluorotetradecanoic acid (PFTA)	4.21	0.239	"	4.78	ND	88.1	25-150				
N-MeFOSAA	4.64	0.239	"	4.78	ND	97.1	25-150				
N-EtFOSAA	6.27	0.239	"	4.78	ND	131	25-150				
Perfluoropentanoic acid (PFPeA)	5.10	0.239	"	4.78	ND	107	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.03	0.239	"	4.78	ND	84.5	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.18	0.239	"	4.56	ND	91.7	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.74	0.239	"	4.61	ND	81.0	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.45	0.239	"	4.54	ND	76.1	25-200				
Perfluoro-n-butanoic acid (PFBA)	4.39	0.239	"	4.78	ND	91.9	25-150				
Surrogate: M3PFBS	5.83		"	4.78		122	25-150				
Surrogate: M5PFHxA	5.17		"	4.78		108	25-150				
Surrogate: M4PFHpA	2.96		"	4.78		62.0	25-150				
Surrogate: M3PFHxS	6.01		"	4.78		126	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.22		"	4.78		88.3	25-150				
Surrogate: M6PFDA	5.04		"	4.78		105	25-150				
Surrogate: M7PFUdA	4.92		"	4.78		103	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	5.43		"	4.78		114	25-150				
Surrogate: M2PFTeDA	6.27		"	4.78		131	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	6.15		"	4.78		129	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	6.36		"	4.78		133	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	6.49		"	4.78		136	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.54		"	4.78		74.2	10-150				
Surrogate: d3-N-MeFOSAA	5.79		"	4.78		121	25-150				
Surrogate: d5-N-EtFOSAA	5.50		"	4.78		115	25-150				
Surrogate: M2-6:2 FTS	21.5		"	4.78		449	25-200				
Surrogate: M9PFNA	4.45		"	4.78		93.2	25-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	Limit	Flag
Batch BJ30986 - SPE PFAS Extraction-Soil-EPA 537m											
Matrix Spike (BJ30986-MS2)		*Source sample: 23J0629-01 (SB3 (4-6))						Prepared: 10/15/2023 Analyzed: 10/17/2023			
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	5.43	1.30	ug/kg dry	4.97	ND	109	25-200				
Surrogate: M2-8:2 FTS	9.00		"	5.18		174	25-200				
Matrix Spike Dup (BJ30986-MSD1)		*Source sample: 23J0629-01 (SB3 (4-6))						Prepared: 10/15/2023 Analyzed: 10/17/2023			
Perfluorobutanesulfonic acid (PFBS)	5.15	1.30	ug/kg dry	4.59	ND	112	25-150		13.6	35	
Perfluorohexanoic acid (PFHxA)	5.67	1.30	"	5.18	ND	109	25-150		19.2	35	
Perfluoroheptanoic acid (PFHpA)	7.36	1.30	"	5.18	ND	142	25-150		8.17	35	
Perfluorohexanesulfonic acid (PFHxS)	6.67	1.30	"	4.72	ND	142	25-150		45.3	35	Non-dir.
Perfluorooctanoic acid (PFOA)	4.67	1.30	"	5.18	ND	90.2	25-150		15.2	35	
Perfluorooctanesulfonic acid (PFOS)	7.19	1.30	"	4.79	ND	150	25-150		45.0	35	Non-dir.
Perfluorononanoic acid (PFNA)	5.09	1.30	"	5.18	ND	98.2	25-150		2.68	35	
Perfluorodecanoic acid (PFDA)	3.72	1.30	"	5.18	ND	71.9	25-150		20.4	35	
Perfluoroundecanoic acid (PFUnA)	4.83	1.30	"	5.18	ND	93.1	25-150		1.20	35	
Perfluorododecanoic acid (PFDoA)	4.69	1.30	"	5.18	ND	90.6	25-150		10.1	35	
Perfluorotridecanoic acid (PFTTrDA)	ND	1.30	"	5.18	ND		25-150	Low Bias		35	
Perfluorotetradecanoic acid (PFTA)	3.88	1.30	"	5.18	ND	74.9	25-150		8.05	35	
N-MeFOSAA	5.87	1.30	"	5.18	ND	113	25-150		23.4	35	
N-EtFOSAA	7.05	1.30	"	5.18	ND	136	25-150		11.7	35	
Perfluoropentanoic acid (PFPeA)	5.73	1.30	"	5.18	ND	111	25-150		11.8	35	
Perfluoro-1-octanesulfonamide (FOSA)	4.86	1.30	"	5.18	ND	93.8	25-150		18.6	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	6.13	1.30	"	4.95	ND	124	25-150		37.8	35	Non-dir.
Perfluoro-1-decanesulfonic acid (PFDS)	4.69	1.30	"	5.00	ND	93.8	25-150		22.7	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.45	1.30	"	4.92	ND	70.1	25-200		0.0192	35	
Perfluoro-n-butanoic acid (PFBA)	6.11	1.30	"	5.18	ND	118	25-150		32.7	35	
Surrogate: M3PFBS	6.00		"	5.18		116	25-150				
Surrogate: M5PFHxA	5.84		"	5.18		113	25-150				
Surrogate: M4PFHpA	3.09		"	5.18		59.6	25-150				
Surrogate: M3PFHxS	4.08		"	5.18		78.7	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	4.94		"	5.18		95.2	25-150				
Surrogate: M6PFDA	6.50		"	5.18		125	25-150				
Surrogate: M7PFUdA	5.57		"	5.18		107	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	5.99		"	5.18		116	25-150				
Surrogate: M2PFTeDA	6.01		"	5.18		116	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	6.26		"	5.18		121	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	5.43		"	5.18		105	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	6.53		"	5.18		126	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	4.09		"	5.18		78.9	10-150				
Surrogate: d3-N-MeFOSAA	5.79		"	5.18		112	25-150				
Surrogate: d5-N-EtFOSAA	6.96		"	5.18		134	25-150				
Surrogate: M2-6:2 FTS	24.5		"	5.18		472	25-200				
Surrogate: M9PFNA	4.40		"	5.18		84.9	25-150				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ30092 - % Solids Prep

Duplicate (BJ30092-DUP1)		*Source sample: 23J0629-01 (SB3 (4-6))						Prepared & Analyzed: 10/11/2023			
% Solids	96.1	0.100	%		96.5				0.353	20	



Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.
MCL	This is the Maximum Contaminant Level in ng/L (ppt) established by the NYSDOH for these compounds where an MCL is reported. Exceedences are flagged accordingly.



Field Chain-of-Custody Record

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below.

Your signature binds you to YORK's Standard Terms & Conditions.

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YORK Project No.
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