

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau B

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June 12, 2026

Principal Rosa Amato
512 Carroll Street
Brooklyn, NY 11215
RAmato3@schools.nyc.gov

Father Orlando Ruiz
522 Carroll Street
Brooklyn, NY 11215
Oruiz25@gmail.com

Re: Gowanus Canal Areawide Soil Vapor Intrusion (SVI) Mitigation

Gowanus Canal Off-site
Brooklyn, New York
Site No: 224133A

Dear Principal Amato and Father Ruiz:

As requested, the New York State Department of Environmental Conservation (NYSDEC) has compiled a summary of events and actions completed and in progress at the PS 372 school Main building (512 Carroll Street) and the Annex building (219 1st Street), Brooklyn, New York (Tax Parcel ID 3-455-1) as part of ongoing Gowanus Canal Area-Wide Soil Vapor Intrusion investigation and mitigation efforts. The events and actions completed and in progress are as follows:

2024

March: Soil vapor intrusion sampling was conducted at 512 Carroll Street (Main building) and 219 1st Street (Annex building) as part of a greater effort to determine if subsurface contaminants have impacted the indoor air quality of structures through the process of soil vapor intrusion in the vicinity of the Gowanus Canal. Initial sampling included the collection of indoor air, sub-slab soil vapor, outdoor air, and sump water within the Main building and Annex building on March 9 and 10, 2024 (See Tables 1 through 3). During the sampling process, a building inspection and chemical inventory were also completed to identify potential pathways for soil vapor intrusion to occur, and to determine if any stored or used chemicals may interfere with the indoor air results. Based on a comprehensive evaluation of the data, the New York State Department of Health (NYSDOH) determined No Further Action was recommended at the Main building and that the Annex building should be resampled to more fully understand the concentrations detected in the cellar of the Annex building. Resampling of the Annex building was completed on March 30, 2024 (See Table 4). The resampling results at the

Annex building confirmed the mitigation recommendation for potential soil vapor intrusion as determined by NYSDOH, in conjunction with NYSDEC, based on elevated concentrations of petroleum-related volatile organic compounds in the indoor air and sub-slab soil vapor samples collected from the cellar level (lowest level) of the Annex building. Following the mitigation recommendation, the design of a mitigation system was initiated.

August: Pilot testing to evaluate whether a sub-slab depressurization system was a potentially viable engineering control for the Annex building, and to collect data necessary to develop a full-scale design, was conducted from August 21-26, 2024. Based on the results of the pilot testing, it was determined that a sub-slab depressurization system, installed below and within the cellar of the Annex building, would be an effective measure to mitigate the potential for soil vapor intrusion to occur. As part of the sub-slab depressurization system design, preferential pathways which were able to be identified in the slab were to be sealed.

2025

March: From February 15 to March 8, 2025, a sub-slab depressurization system was installed in the cellar, the lowest level of the Annex building. The objective of a sub-slab depressurization system is to establish a negative pressure field (vacuum) beneath the slab of a building to prevent contaminants in soil vapor from intruding into a building. The sub-slab depressurization system at the Annex building is comprised of four sub-slab suction points located throughout the cellar of the building, which connect to two exterior fans mounted in a weatherproof, steel enclosure. The sub-slab depressurization system was started up on March 8, 2025. In conjunction with the installation of the sub-slab depressurization system, vacuum monitoring locations were installed in several locations throughout the cellar slab. Following startup of the sub-slab depressurization system, sub-slab vacuum readings were collected from beneath the slab to ensure that the entire cellar slab was depressurized and thereby sub-slab soil vapors are collected before potentially entering the building. All areas of the cellar slab had adequate vacuum except in the west-central portion of the slab, possibly due to a deep, exterior window well on the west side of the Annex building. Air samples from the exhaust of the system (effluent) were collected on March 30, 2025 (See Table 5). Results from that sampling showed that contaminants of concern were being captured and discharged to the exterior at concentrations meeting regulatory requirements. Samples of indoor air throughout the Annex building's cellar and outdoor air were also collected on March 31, 2025 (See Table 6). These results showed an overall decrease of volatile organic compound concentrations in indoor air, but still at concentrations above background, warranting further control.

June: Following initial startup and monitoring of the sub-slab depressurization system, the system was modified by adding an additional suction point to improve sub-slab vacuum in the western portion of the Annex building and by sealing additional identified potential soil vapor intrusion pathways, including cracks and floor seams located in the boiler and pump rooms using water- and vapor-proof sealant. Air samples from the exhaust of the modified system (effluent) were collected on June 30, 2025 (See Table

7). Results from that sampling showed that contaminants of concern continued to be captured from beneath the cellar slab, indicating that the sub-slab depressurization system was working as designed. Samples of indoor air throughout the Annex building's cellar and outdoor air were also collected on July 1, 2025 (See Table 8). These results showed that volatile organic compound concentrations within indoor air remained similar to pre-mitigation results. While there were no exceedances of NYSDOH Air Guideline Values in the pre- or post-mitigation indoor air samples, the post-mitigation data suggested that indoor and/or outdoor sources of contamination could be interfering with the indoor air samples.

Additional sub-slab vacuum measurements taken after modification of the sub-slab depressurization system indicated that the system was functioning as designed. However, the fluctuations in volatile organic compound concentrations in the indoor air may be indicative of other variables (i.e., groundwater level fluctuations, potential outdoor sources, potential indoor sources, weather, the season in which sampling occurred) rather than inadequate sub-slab depressurization system performance.

August: In response to the remaining volatile organic compound concentrations in cellar indoor air following the installation, startup, and modification of the sub-slab depressurization system, additional sampling was conducted. Indoor and outdoor air and sump water samples were collected on August 21 and August 22, 2025 to assess potential additional sources of indoor air contamination (See Table 9 and Table 10). In conjunction with the typical indoor air sampling in the cellar, separate air samples were collected from the Annex building's first and second floors, and the heating, ventilation, and cooling (HVAC) system intakes and exhaust while the HVAC system was on and off (See Table 11). Indoor air sampling results from the cellar continued to show trends similar to those observed in the July 2025 results from the first- and second-floor indoor air samples indicated that concentrations were lower than those measured in the cellar indoor air samples.

Ambient outdoor air samples collected in August 2025 showed increases in several analyte concentrations compared to March 2025. Nonetheless, outdoor air sample concentrations remained lower than those measured indoors within the cellar, and the outdoor air sample situated specifically to monitor the HVAC air intake contained no significant detections. These results suggested that outdoor air was not a significant source of volatile organic compounds in indoor air in the Annex building. The indoor air samples collected at an HVAC air diffuser showed that concentrations of most detected analytes were higher when the HVAC system was off. This suggests that the HVAC system, when operating, may be diluting or redistributing contaminants, or creating a slightly positive pressure in the cellar space, thereby reducing indoor air concentrations. Conversely, when the system is off, the lack of circulation appears to allow volatile organic compounds to accumulate.

The water sample collected from the utility pit indicated that this water is unlikely to be contributing to volatile organic compound concentrations in indoor air and is likely from an unknown above ground source.

While the sub-slab depressurization system continued to operate as designed to prevent soil vapor intrusion from occurring through the slab, additional investigation was recommended based on the August 2025 findings.

November: Further investigation into the source of volatile organic compounds in indoor air continued with soil vapor sampling and a helium gas tracer study. The purpose of the soil vapor sampling and helium gas tracer study was to investigate the possibility of a secondary source that may be contributing to lateral soil vapor intrusion through the exterior cellar walls or other building penetrations. Soil vapor samples were collected on November 16, 2025, from five locations beneath the concrete of the window well (areaway) on the exterior of the west side of the Annex building (See Table 12). Additionally, subsurface soil vapor samples were collected on November 30, 2025, from seven soil vapor probes installed around the western, northern, and eastern exterior perimeter of the Annex building (See Table 13). Soil vapor samples were previously collected along the south side of the Annex building on October 2, 2025, by another entity investigating a Brownfield Cleanup Program site to the south of the Annex building. Outdoor air samples were also collected during the November 2025 sampling events. NYSDEC, in consultation with NYSDOH, reviewed the soil vapor sample results and determined that although some petroleum-related volatile organic compounds were present, the detected concentrations were within the range of what may typically be found in the subsurface of urban areas and were not an appreciable potential source of indoor air contamination.

The helium gas tracer study was conducted on November 15 and 16, 2025. The study involved releasing helium (an inert, easily detectable gas) at select locations beneath the Annex building slab and in exterior soil vapor probes at high volumes and then monitoring for its presence in the cellar indoor air to identify possible unknown soil vapor intrusion pathways. Results of the helium gas tracer study indicated that the sub-slab depressurization system was continuing to actively extract soil vapor from beneath the cellar slab and no additional active soil vapor intrusion pathways were identified in the areas that could be tested.

Based on the review of this information and all of the analytical results obtained to date, no secondary source of soil vapor intrusion was identified, but also that the sub-slab depressurization system was operating as designed.

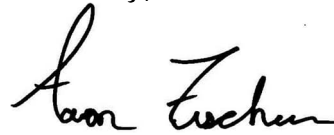
2026

NYSDEC, in conjunction with NYSDOH, are currently developing a plan for additional mitigation measures that may be applied to further reduce concentrations of volatile organic compounds in indoor air from unknown secondary sources. Measures under consideration include increasing the air exchange rate and providing a slightly positive pressure within the cellar space of the Annex building via modifications to the existing HVAC system, or through the installation and operation of Heat Recovery Ventilator (HRV) systems. Additional investigation to evaluate the efficacy of modifications to the existing HVAC system are being planned concurrently with designing HRVs such that

construction of either option can be implemented when the Annex building is vacant in summer 2026.

If you would like to discuss your results in more detail or have questions regarding work performed, please contact NYSDEC's project manager, Aaron Fischer by phone at 518-598-7799 or email at Aaron.Fischer@dec.ny.gov. Please direct any health-related inquiries to NYSDOH's project manager, Daniel Tucholski at 518-402-7860 or email at Daniel.Tucholski@health.ny.gov.

Sincerely,

A handwritten signature in black ink that reads "Aaron Fischer". The signature is fluid and cursive.

Aaron Fischer
Project Manager

A handwritten signature in blue ink that reads "Daniel P. Tucholski". The signature is stylized and cursive.

Daniel P. Tucholski
Public Health Specialist II
Bureau of Environmental
Exposure Investigation

Enclosures

1. Summary Tables

cc: Lisa Gorton, DEC
Heidi Dudek, DEC
Scott Deyette, DEC
Scarlett McLaughlin, DOH
Wendy Kuehner, DOH
Christine Vooris, DOH

Table 1. Summary of NYSDOH Decision Matrix Recommendations
Gowanus Canal, Brooklyn, New York

Analyte	Property Address:		512 Carroll Street (Main Building)						NYSDOH Decision Matrix ⁽¹⁾	NYSDOH Decision Matrix Recommended Action ⁽¹⁾
	Location ID:		GC112-SV01	GC112-BA01	GC112-SV02	GC112-BA02	GC112-BA06	GC112-OA01		
	Sample Type:		Normal	Normal	Normal	Normal	Normal	Normal		
	Sample Matrix:		Sub-slab Vapor	Basement Air	Sub-slab Vapor	Basement Air	Basement Air	Outdoor Air		
	Date:		3/9/2024	3/9/2024	3/9/2024	3/9/2024	3/9/2024	3/9/2024		
	Air Guideline Value ⁽¹⁾									
VOCs by Method TO15 (µg/m3)										
1,1,1-Trichloroethane (TCA)	--		0.82 U	0.20 U	0.82 U	0.20 U	0.20 U	0.20 U	B	No Further Action
1,1-Dichloroethene	--		0.95 U	0.23 U	0.95 U	0.23 U	0.23 U	0.23 U	A	No Further Action
1,2,4-Trimethylbenzene	--		1.7 U	0.59 J	99.3	0.49 J	1.8	0.43 U	D	No Further Action
1,3,5-Trimethylbenzene (Mesitylene)	--		1.6 U	0.39 U	59.0	0.39 U	0.54 J	0.39 U	D	No Further Action
Benzene	--		0.31 U	0.83	6.7	0.51 J	1.3	0.51 J	D	No Further Action
Carbon Tetrachloride	--		1.0 U	0.25 U	1.0 U	0.25 U	0.25 U	0.25 U	A	No Further Action
Cis-1,2-Dichloroethene	--		0.48 U	0.12 U	0.48 U	0.12 U	0.12 U	0.12 U	A	No Further Action
Cyclohexane	--		0.62 U	0.15 U	0.62 U	0.15 U	0.15 U	0.15 U	D	No Further Action
Ethylbenzene	--		1.0 U	0.26 U	25	0.26 U	1.2	0.26 U	D	No Further Action
M,P-Xylene (Sum Of Isomers)	--		2.4 U	1.3	88.2	0.78 J	3.3	0.61 U	E	No Further Action
Methylene Chloride	60		9.0	1.6	11	0.90	5.6	0.83	B	No Further Action
Naphthalene	--		2.7 U	0.68 U	148	0.68 U	0.68 U	0.68 U	D	No Further Action
N-Heptane	--		0.74 U	1.3	0.74 U	1.8	0.86	0.18 U	E	No Further Action
N-Hexane	--		0.74 U	0.85	0.74 U	0.49 J	1.5	0.56 J	E	No Further Action
O-Xylene (1,2-Dimethylbenzene)	--		1.3 U	0.33 U	40	0.33 U	1.8	0.33 U	D	No Further Action
Tetrachloroethene (PCE)	30		5.3	7.5	6.8	0.095 U	0.095 U	0.095 U	B	No Further Action
Toluene	--		33	2.1	33	0.98	2.1	0.60 J	F	No Further Action
Trichloroethene (TCE)	2		1.2	0.10 U	0.75 J	0.10 U	0.10 U	0.10 U	A	No Further Action
Vinyl Chloride	--		0.72 U	0.18 U	0.72 U	0.18 U	0.18 U	0.18 U	C	No Further Action

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Other

µg/m3 = Micrograms per cubic meter

-- = No available value

Notes:

(1) New York State Department of Health, 2006 (with updates), Guidance for Evaluating Soil Vapor Intrusion in New York State
https://health.ny.gov/environmental/indoor/vapor_intrusion/update.htm

100
0.45 J

Ambient air values highlighted in blue exceed NYSDOH Air Guideline Values.

Bold numbers indicate that the chemical was detected.

**Table 2. Summary of NYSDOH Decision Matrix Analytes
Gowanus Canal, Brooklyn, NY**

Property Address:		219 First Street (Annex Building)									
Location ID:		GC112-SV03	GC112-BA03	GC112-BA03	GC112-SV04	GC112-BA04	GC112-SV05	GC112-BA05	GC112-OA01		
Sample Type:		Normal	Normal	Duplicate	Normal	Normal	Normal	Normal	Normal		
Sample Matrix:		Sub-slab Vapor	Basement Air	Basement Air	Sub-slab Vapor	Basement Air	Sub-slab Vapor	Basement Air	Outdoor Air		
Date:		3/9/2024	3/9/2024	3/9/2024	3/9/2024	3/9/2024	3/9/2024	3/9/2024	3/9/2024		
Analyte	Air Guideline Value ⁽¹⁾									NYSDOH Decision Matrix ⁽¹⁾	NYSDOH Decision Matrix Recommended Action ⁽¹⁾
VOCs by Method TO15 (µg/m3)											
1,1,1-Trichloroethane (TCA)	--	3.1 U	0.20 U	0.20 U	13 U	0.20 U	0.82 U	0.20 U	0.20 U	B	No Further Action
1,1-Dichloroethene	--	3.6 U	0.23 U	0.23 U	15 U	0.23 U	0.95 U	0.23 U	0.23 U	A	Monitor
1,2,4-Trimethylbenzene	--	440	3.3	3.0	1060	1.4	18	1.6	0.43 U	D	Mitigate
1,3,5-Trimethylbenzene (Mesitylene)	--	158	1.1	0.88 J	371	0.39 U	8.4	0.48 J	0.39 U	D	No Further Action
Benzene	--	4.8 J	0.61 J	0.64	4.8 U	0.61 J	0.31 U	0.64	0.51 J	D	No Further Action
Carbon Tetrachloride	--	3.8 U	0.25 U	0.25 U	16 U	0.25 U	1.0 U	0.25 U	0.25 U	A	Monitor
Cis-1,2-Dichloroethylene	--	1.8 U	0.12 U	0.12 U	7.5 U	0.12 U	0.48 U	0.12 U	0.12 U	A	No Further Action
Cyclohexane	--	2.3 U	0.15 U	0.15 U	9.6 U	0.15 U	0.62 U	0.15 U	0.15 U	D	No Further Action
Ethylbenzene	--	275	10	8.7	3190	5.2	27	6.1	0.26 U	D	Mitigate
M,P-Xylene (Sum Of Isomers)	--	764	30	26	10000	19	88.6	19	0.61 U	E	Mitigate
Methylene Chloride	60	12	0.76	0.80	12 U	0.73	8.0	1.1	0.83	B	No Further Action
Naphthalene	--	56.1	0.68 U	0.68 U	41 U	0.68 U	2.7 U	0.68 U	0.68 U	D	No Further Action
N-Heptane	--	2.8 U	2.0	2.4	11 U	1.8	8.6	1.1	0.18 U	E	No Further Action
N-Hexane	--	2.8 U	0.78	0.74	11 U	0.63 J	9.9	1.4	0.56 J	E	No Further Action
O-Xylene (1,2-Dimethylbenzene)	--	314	6.9	6.5	2210	4.8	26	4.8	0.33 U	D	Mitigate
Tetrachloroethylene (PCE)	30	26	0.095 U	0.095 U	63	0.095 U	5.1	0.095 U	0.095 U	B	No Further Action
Toluene	--	129	2.5	2.3	648	1.7	9.4	1.8	0.60 J	F	No Further Action
Trichloroethylene (TCE)	2	1.6 U	0.10 U	0.10 U	57.5	0.10 U	3.2	0.10 U	0.10 U	A	No Further Action
Vinyl Chloride	--	2.6 U	0.18 U	0.18 U	11 U	0.18 U	0.72 U	0.18 U	0.18 U	C	Monitor

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Other

µg/m3 = Micrograms per cubic meter

-- = No available value

Notes:

(1) New York State Department of Health, 2006 (with updates), Guidance for Evaluating Soil Vapor Intrusion in New York State
(https://health.ny.gov/environmental/indoor/vapor_intrusion/update.htm)

100	Ambient air values highlighted in blue exceed NYSDOH Air Guideline Values.
0.45 J	Bold numbers indicate that the chemical was detected.

Table 3. Analytical Results for Water Samples
Gowanus Canal, Brooklyn, New York

Analyte	Address:	512 Carroll Street (Main Building)			219 1st Street (Annex Building)
	Location ID:	GC112-WG01	GC112-WG02	GC112-WG03	GC112-WG04
	Sample Type:	Normal	Normal	Normal	Normal
	Sample Location Description:	Boiler Room Trench Drain	Sump Outside of Oil Tank Room	Storage Room	Boiler Room Sump
	Date:	3/9/2024	3/9/2024	3/9/2024	3/10/2024
Volatile Organics by Method SW8260C (ug/L)					
1,1,1-Trichloroethane (TCA)		< 0.54 U	< 0.54 U	< 11 U	< 0.54 U
1,1,2,2-Tetrachloroethane		< 0.65 U	< 0.65 U	< 13 U	< 0.65 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		< 0.58 U	< 0.58 U	< 12 U	< 0.58 U
1,1,2-Trichloroethane		< 0.53 U	< 0.53 U	< 11 U	< 0.53 U
1,1-Dichloroethane		< 0.57 U	< 0.57 U	< 11 U	< 0.57 U
1,1-Dichloroethene		< 0.59 U	< 0.59 U	< 12 U	< 0.59 U
1,2,3-Trichlorobenzene		< 0.50 U	< 0.50 U	< 10 U	< 0.50 U
1,2,4-Trichlorobenzene		< 0.50 U	< 0.50 U	< 10 U	< 0.50 U
1,2-Dibromo-3-Chloropropane		< 0.53 U	< 0.53 U	< 11 U	< 0.53 U
1,2-Dibromoethane (Ethylene Dibromide)		< 0.48 U	< 0.48 U	< 9.5 U	< 0.48 U
1,2-Dichlorobenzene		< 0.53 U	< 0.53 U	< 11 U	< 0.53 U
1,2-Dichloroethane		< 0.60 U	< 0.60 U	< 12 U	< 0.60 U
1,2-Dichloropropane		< 0.51 U	< 0.51 U	< 10 U	< 0.51 U
1,3-Dichlorobenzene		< 0.54 U	< 0.54 U	< 11 U	< 0.54 U
1,4-Dichlorobenzene		< 0.51 U	0.55 J	< 10 U	< 0.51 U
2-Hexanone		< 4.8 U	< 4.8 U	< 96 U	< 4.8 U
Acetone		< 3.1 UJ	4.5 J	67.2 J	< 3.1 UJ
Benzene		< 0.43 U	< 0.43 U	< 8.5 U	< 0.43 U
Bromochloromethane		< 0.48 U	< 0.48 U	< 9.6 U	< 0.48 U
Bromodichloromethane		< 0.45 U	< 0.45 U	< 9.0 U	< 0.45 U
Bromoform		< 0.63 U	< 0.63 U	< 13 U	< 0.63 U
Bromomethane		< 1.6 U	< 1.6 U	< 33 U	< 1.6 U
Carbon Disulfide		< 1.8 U	< 1.8 U	< 36 U	< 1.8 U
Carbon Tetrachloride		< 0.55 U	< 0.55 U	< 11 U	< 0.55 U
Chlorobenzene		< 0.56 U	< 0.56 U	< 11 U	< 0.56 U
Chloroethane		< 0.73 U	< 0.73 U	< 15 U	< 0.73 U
Chloroform		< 0.50 U	0.82 J	< 10 U	< 0.50 U

Key at end of table.

Table 3. Analytical Results for Water Samples
Gowanus Canal, Brooklyn, New York

Analyte	Address:	512 Carroll Street (Main Building)			219 1st Street (Annex Building)
	Location ID:	GC112-WG01	GC112-WG02	GC112-WG03	GC112-WG04
	Sample Type:	Normal	Normal	Normal	Normal
	Sample Location Description:	Boiler Room Trench Drain	Sump Outside of Oil Tank Room	Storage Room	Boiler Room Sump
	Date:	3/9/2024	3/9/2024	3/9/2024	3/10/2024
Chloromethane (Methyl Chloride)		< 0.76 U	< 0.76 U	< 15 U	< 0.76 U
Cis-1,2-Dichloroethene		< 0.51 U	< 0.51 U	< 10 U	< 0.51 U
Cis-1,3-Dichloropropene		< 0.47 U	< 0.47 U	< 9.4 U	< 0.47 U
Cyclohexane		< 0.78 U	< 0.78 U	< 16 U	< 0.78 U
Dibromochloromethane		< 0.56 U	< 0.56 U	< 11 U	< 0.56 U
Dichlorodifluoromethane		< 0.56 U	< 0.56 U	< 11 U	< 0.56 U
Ethylbenzene		< 0.60 U	< 0.60 U	20.6	< 0.60 U
Isopropylbenzene (Cumene)		1.7	< 0.65 U	< 13 U	< 0.65 U
M,P-Xylene (Sum Of Isomers)		< 0.78 U	< 0.78 U	39.8	< 0.78 U
Methyl Acetate		< 0.80 U	< 0.80 U	< 16 U	< 0.80 U
Methyl Ethyl Ketone (2-Butanone)		< 2.7 U	13.2	< 55 U	< 2.7 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		< 4.9 U	< 4.9 U	< 97 U	< 4.9 U
Methylcyclohexane		< 0.60 U	< 0.60 U	< 12 U	< 0.60 U
Methylene Chloride		< 1.0 U	< 1.0 U	< 20 U	< 1.0 U
O-Xylene (1,2-Dimethylbenzene)		< 0.59 U	< 0.59 U	19.4 J	< 0.59 U
Styrene		< 0.49 U	< 0.49 U	< 9.7 U	< 0.49 U
Tert-Butyl Methyl Ether		< 0.51 U	< 0.51 U	< 10 U	< 0.51 U
Tetrachloroethene (PCE)		< 0.56 U	< 0.56 U	< 11 U	< 0.56 U
Toluene		< 0.49 U	< 0.49 U	18.6 J	< 0.49 U
Trans-1,2-Dichloroethene		< 0.54 U	< 0.54 U	< 11 U	< 0.54 U
Trans-1,3-Dichloropropene		< 0.43 U	< 0.43 U	< 8.6 U	< 0.43 U
Trichloroethene (TCE)		< 0.53 U	< 0.53 U	< 11 U	< 0.53 U
Trichlorofluoromethane		< 0.40 U	< 0.40 U	< 8.0 U	< 0.40 U
Vinyl Chloride		< 0.52 U	< 0.52 U	< 10 U	< 0.52 U
Xylenes		< 0.59 U	< 0.59 U	59.2	< 0.59 U

Key at end of table.

Table 3. Analytical Results for Water Samples
Gowanus Canal, Brooklyn, New York

Analyte	Address:	512 Carroll Street (Main Building)			219 1st Street (Annex Building)
	Location ID:	GC112-WG01	GC112-WG02	GC112-WG03	GC112-WG04
	Sample Type:	Normal	Normal	Normal	Normal
	Sample Location Description:	Boiler Room Trench Drain	Sump Outside of Oil Tank Room	Storage Room	Boiler Room Sump
	Date:	3/9/2024	3/9/2024	3/9/2024	3/10/2024
Semivolatile Organics by Method SW8270D (ug/L)					
1,2,4,5-Tetrachlorobenzene		< 0.74 U	< 1.2 U	< 0.74 U	< 0.74 U
1,4-Dioxane (P-Dioxane)		< 1.3 U	< 2.2 U	< 1.3 U	< 1.3 U
2,3,4,6-Tetrachlorophenol		< 2.9 U	< 4.9 UJ	< 2.9 U	< 2.9 U
2,4,5-Trichlorophenol		< 2.7 U	< 4.4 U	< 2.7 U	< 2.7 U
2,4,6-Trichlorophenol		< 1.8 U	< 3.1 U	< 1.8 U	< 1.8 U
2,4-Dichlorophenol		< 2.5 U	< 4.2 U	< 2.5 U	< 2.5 U
2,4-Dimethylphenol		< 4.9 U	< 8.1 U	24.6	< 4.9 U
2,4-Dinitrophenol		< 3.1 UJ	< 5.2 UJ	< 3.1 UJ	< 3.1 UJ
2,4-Dinitrotoluene		< 1.1 UJ	< 1.8 UJ	< 1.1 UJ	< 1.1 UJ
2,6-Dinitrotoluene		< 0.95 UJ	< 1.6 UJ	< 0.95 UJ	< 0.95 UJ
2-Chloronaphthalene		< 0.47 U	< 0.79 U	< 0.47 U	< 0.47 U
2-Chlorophenol		< 1.6 U	< 2.7 U	< 1.6 U	< 1.6 U
2-Methylnaphthalene		< 0.42 U	< 0.70 U	53.6	< 0.42 U
2-Methylphenol (O-Cresol)		< 1.8 U	< 3.0 U	21.7	< 1.8 U
2-Nitroaniline		< 0.55 U	< 0.92 UJ	< 0.55 U	< 0.55 U
2-Nitrophenol		< 1.9 UJ	< 3.2 UJ	< 1.9 UJ	< 1.9 UJ
3,3'-Dichlorobenzidine		< 1.0 U	< 1.7 U	< 1.0 U	< 1.0 U
3-Nitroaniline		< 0.77 U	< 1.3 U	< 0.77 U	< 0.77 U
4,6-Dinitro-2-Methylphenol		< 2.6 U	< 4.3 UJ	< 2.6 U	< 2.6 U
4-Bromophenyl Phenyl Ether		< 0.81 U	< 1.3 U	< 0.81 U	< 0.81 U
4-Chloro-3-Methylphenol		< 1.8 U	< 3.0 UJ	< 1.8 U	< 1.8 U
4-Chloroaniline		< 0.68 U	< 1.1 U	< 0.68 U	< 0.68 U
4-Chlorophenyl Phenyl Ether		< 0.73 U	< 1.2 U	< 0.73 U	< 0.73 U
4-Methylphenol (P-Cresol)		< 1.8 U	< 2.9 U	67.2	< 1.8 U
4-Nitroaniline		< 0.88 U	< 1.5 U	< 0.88 U	< 0.88 U
4-Nitrophenol		< 2.3 U	< 3.8 UJ	< 2.3 U	< 2.3 U
Acenaphthene		6.1	< 0.64 U	30.1	1.4 J
Acenaphthylene		< 0.27 U	< 0.45 U	1.9 J	< 0.27 U

Key at end of table.

Table 3. Analytical Results for Water Samples
Gowanus Canal, Brooklyn, New York

Analyte	Address:	512 Carroll Street (Main Building)			219 1st Street (Annex Building)
	Location ID:	GC112-WG01	GC112-WG02	GC112-WG03	GC112-WG04
	Sample Type:	Normal	Normal	Normal	Normal
	Sample Location Description:	Boiler Room Trench Drain	Sump Outside of Oil Tank Room	Storage Room	Boiler Room Sump
	Date:	3/9/2024	3/9/2024	3/9/2024	3/10/2024
Acetophenone		< 0.42 U	< 0.69 U	< 0.42 U	< 0.42 U
Anthracene		< 0.42 U	< 0.70 U	10.5	< 0.42 U
Atrazine		< 0.89 U	< 1.5 U	< 0.89 U	< 0.89 U
Benzaldehyde		< 0.58 U	< 0.96 U	< 0.58 U	< 0.58 U
Benzo(A)Anthracene		< 0.41 U	< 0.68 U	0.94 J	< 0.41 U
Benzo(A)Pyrene		< 0.43 U	< 0.71 U	< 0.43 U	< 0.43 U
Benzo(B)Fluoranthene		< 0.41 U	< 0.68 U	< 0.41 U	< 0.41 U
Benzo(G,H,I)Perylene		< 0.68 U	< 1.1 U	< 0.68 U	< 0.68 U
Benzo(K)Fluoranthene		< 0.41 U	< 0.68 U	< 0.41 U	< 0.41 U
Benzyl Butyl Phthalate		< 0.91 U	< 1.5 U	< 0.91 U	< 0.91 U
Biphenyl (Diphenyl or 1,1'-Biphenyl)		< 0.42 U	< 0.71 U	8.0	< 0.42 U
Bis(2-Chloroethoxy) Methane		< 0.56 U	< 0.93 U	< 0.56 U	< 0.56 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)		< 0.50 U	< 0.83 U	< 0.50 U	< 0.50 U
Bis(2-Chloroisopropyl) Ether		< 0.81 U	< 1.3 U	< 0.81 U	< 0.81 U
Bis(2-Ethylhexyl) Phthalate		< 3.3 U	< 5.5 U	< 3.3 U	< 3.3 U
Caprolactam		< 1.3 U	< 2.2 U	< 1.3 U	< 1.3 U
Carbazole		< 0.46 U	< 0.76 U	70.9	< 0.46 U
Chrysene		< 0.35 U	< 0.59 U	0.47 J	< 0.35 U
Dibenz(A,H)Anthracene		< 0.66 U	< 1.1 U	< 0.66 U	< 0.66 U
Dibenzofuran		< 0.44 U	< 0.73 U	25.5	< 0.44 U
Diethyl Phthalate		< 0.52 U	< 0.87 U	< 0.52 U	< 0.52 U
Dimethyl Phthalate		< 0.44 U	< 0.73 U	< 0.44 U	< 0.44 U
Di-N-Butyl Phthalate		< 0.99 U	< 1.7 U	< 0.99 U	< 0.99 U
Di-N-Octylphthalate		< 0.47 U	< 0.78 U	< 0.47 U	< 0.47 U
Fluoranthene		< 0.34 U	< 0.57 U	7.30	< 0.34 U
Fluorene		0.61 J	< 0.57 U	27.5	< 0.34 U
Hexachlorobenzene		< 0.65 U	< 1.1 U	< 0.65 U	< 0.65 U
Hexachlorobutadiene		< 0.98 U	< 1.6 UJ	< 0.98 U	< 0.98 U

Key at end of table.

**Table 3. Analytical Results for Water Samples
Gowanus Canal, Brooklyn, New York**

Analyte	Address:	512 Carroll Street (Main Building)			219 1st Street (Annex Building)
	Location ID:	GC112-WG01	GC112-WG02	GC112-WG03	GC112-WG04
	Sample Type:	Normal	Normal	Normal	Normal
	Sample Location Description:	Boiler Room Trench Drain	Sump Outside of Oil Tank Room	Storage Room	Boiler Room Sump
	Date:	3/9/2024	3/9/2024	3/9/2024	3/10/2024
Hexachlorocyclopentadiene		< 5.6 U	< 9.3 UJ	< 5.6 U	< 5.6 U
Hexachloroethane		< 0.78 U	< 1.3 U	< 0.78 U	< 0.78 U
Indeno(1,2,3-C,D)Pyrene		< 0.66 U	< 1.1 U	< 0.66 U	< 0.66 U
Isophorone		< 0.55 U	< 0.92 U	< 0.55 U	< 0.55 U
Naphthalene		< 0.46 U	< 0.77 U	530	< 0.46 U
Nitrobenzene		< 1.3 U	< 2.1 UJ	< 1.3 U	< 1.3 U
N-Nitrosodi-N-Propylamine		< 0.96 U	< 1.6 U	< 0.96 U	< 0.96 U
N-Nitrosodiphenylamine		< 0.44 U	< 0.74 U	< 0.44 U	< 0.44 U
Pentachlorophenol		< 2.8 U	< 4.6 U	< 2.8 U	< 2.8 U
Phenanthrene		0.50 J	< 0.58 U	45.0	< 0.35 U
Phenol		< 0.78 U	< 1.3 U	46.2	< 0.78 U
Pyrene		< 0.44 U	< 0.73 U	5.0	< 0.44 U

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Other

µg/L = Micrograms per liter

Key at end of table.

Table 4. Summary of NYSDOH Recommendations
Gowanus Canal, Brooklyn, New York

Property Address:		219 1st Street - Annex Building											
Location ID:	GC112-BA07	GC112-BA08	GC112-BA09	GC112-BA10	GC112-BA11	GC112-BA12	GC112-BA13	GC112-BA14	GC112-BA15	GC112-BA16	GC112-BA17	NYSDOH Recommended Action ⁽¹⁾	
Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal		
Sample Matrix:	Basement Air	Basement Air	Basement Air	Basement Air	Basement Air	Basement Air	Basement Air	Basement Air	Basement Air	Basement Air	Basement Air		
Date:	3/30/2024	3/30/2024	3/30/2024	3/30/2024	3/30/2024	3/30/2024	3/30/2024	3/30/2024	3/30/2024	3/30/2024	3/30/2024		
Analyte	Air Guideline Value ⁽¹⁾												
VOCs by Method TO15 (µg/m3)													
1,1,1-Trichloroethane (TCA)	--	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	0.58 U	No Further Action	
1,1-Dichloroethene	--	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	No Further Action	
1,2,4-Trimethylbenzene	--	3.3	2.7	1.5	1.9	2.1	1.9	2.8	0.84	3.2	2.4	2.9	No Further Action
1,3,5-Trimethylbenzene (Mesitylene)	--	1.5	1.2	0.98	1.4	0.84	0.35 U	1.9	0.35 U	1.6	0.35 U	1.9	No Further Action
Benzene	--	0.45 J	0.42 J	0.42 J	0.48	0.48	0.54	0.51	0.67	0.54	0.58	0.54	No Further Action
Carbon Tetrachloride	--	0.50 J	0.50 J	0.50 J	0.44 J	0.50 J	0.50 J	0.50 J	0.44 J	0.50 J	0.50 J	0.50 J	No Further Action
Cis-1,2-Dichloroethene	--	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	No Further Action
Cyclohexane	--	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	No Further Action
Ethylbenzene	--	10	6.4	9.1	11	5.6	5.6	8.3	0.52 J	9.1	10	8.7	Mitigate
m,p-Xylene	--	31	20	29	34	19 J	18 J	24	1.6	28	33	24	Mitigate
Methylene Chloride	60	2.5 J	2.2 J	3.1 J	2.3 J	1.7 J	1.9 J	1.7 J	1.7 J	1.4 J	3.5 J	1.9 J	No Further Action
Naphthalene	--	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	No Further Action
N-Heptane	--	1.7	0.33 U	0.33 U	0.33 U	1.1	1.4	2.0	0.33 U	0.74	0.94	1.8	No Further Action
N-Hexane	--	0.42 J	0.20 U	0.35 J	0.53	2.3	3.1	0.70	0.20 U	0.53	0.49 J	0.60	No Further Action
O-Xylene (1,2-Dimethylbenzene)	--	7.0	4.6	7.3	7.4	4.4	4.1	6.5	0.52 J	6.9	8.6	6.4	No Further Action
Tetrachloroethene (PCE)	30	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	No Further Action
Toluene	--	1.5	1.3	1.1	1.6	1.4	1.2	1.9	0.83	1.5	1.9	1.5	No Further Action
Trichloroethene (TCE)	2	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	No Further Action
Vinyl Chloride	--	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	No Further Action

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Other

µg/m3 = Micrograms per cubic meter

-- = No available value

Notes:

(1) New York State Department of Health, 2006 (with updates), Guidance for Evaluating Soil Vapor Intrusion in New York State
https://health.ny.gov/environmental/indoor/vapor_intrusion/update.htm

100	Ambient air values highlighted in blue exceed NYSDOH Air Guideline Values.
0.45 J	Bold numbers indicate that the chemical was detected.

Table 5. Summary of Results
Gowanus Canal, Brooklyn, New York

Property Address:	512 Carroll Street
Building Use:	Commercial/Mixed
Location ID:	GC112-AE01
Sample Type:	Normal
Sample Matrix:	Effluent
Date:	3/30/2025
Chemical Analyte	
VOCs by Method TO15 ($\mu\text{g}/\text{m}^3$)	
1,1,1-Trichloroethane (TCA)	0.70 U
1,1-Dichloroethene	0.151 U
1,2,4-Trimethylbenzene	0.826
1,3,5-Trimethylbenzene (Mesitylene)	0.405 U
Isooctane (2,2,4-Trimethylpentane)	0.178 U
Benzene	2.29
Carbon tetrachloride	0.288
cis-1,2-Dichloroethene	0.151 U
Cyclohexane	0.452 U
Ethylbenzene	0.862
Methylene chloride	0.690 J
Naphthalene	0.776 U
n-Heptane	0.269 U
n-Hexane	0.538
m,p-Xylene	4.8
o-Xylene	1.06
Tetrachloroethene (PCE)	0.829 J
Toluene	4.49
Trichloroethene (TCE)	0.246
Vinyl chloride	0.172 U

Key:

Qualifiers

J = Estimated value

U = Not Detected (method detection limit shown)

Other

$\mu\text{g}/\text{m}^3$ = Micrograms per cubic meter

**Table 6. Summary of NYSDOH Decision Matrix Analytes
Gowanus Canal, Brooklyn, NY**

Property Address: Building Use: Location ID: Sample Type: Sample Matrix: Date:		219 1st Street - Annex Building Commercial/mixed				
		GC112-BA07	GC112-BA07	GC112-BA08	GC112-BA09	GC112-BA10
		Normal	Duplicate	Normal	Normal	Normal
		Basement Air	Basement Air	Basement Air	Basement Air	Basement Air
		3/31/2025	3/31/2025	3/31/2025	3/31/2025	3/31/2025
NYSDOH Air Guideline Value ⁽¹⁾						
Chemical Analyte						
VOCs by Method TO15 (µg/m³)						
1,1,1-Trichloroethane (TCA)	--	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
1,1-Dichloroethene	--	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2,4-Trimethylbenzene	--	1.6	1.8	1.4	1.3	0.79 J
1,3,5-Trimethylbenzene (Mesitylene)	--	0.54 J	0.47 J	0.47 J	0.39 U	0.39 U
Isooctane (2,2,4-Trimethylpentane)	--	0.19 U	0.47 J	0.19 U	0.19 U	0.19 U
Benzene	--	0.70	0.70	0.73	0.73	0.67
Carbon tetrachloride	--	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
cis-1,2-Dichloroethene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Cyclohexane	--	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Ethylbenzene	--	5.2	4.8	4.8	8.3	4.8
m,p-Xylene	--	19	16	16	28	17
Methylene chloride	60	1.1	1.7	1.1	0.97	9.7
Naphthalene	--	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U
n-Heptane	--	0.53 J	0.66 J	0.40 J	0.37 U	0.45 J
n-Hexane	--	0.99	1.9	0.63 J	0.95	3.9
o-Xylene	--	3.9	3.3	3.5	5.6	3.4
Tetrachloroethene (PCE)	30	2.6	1.9	12	2.8	1.6
Toluene	--	1.5	1.6	2.0	1.3	1.2
Trichloroethene (TCE)	2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Vinyl chloride	--	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U

Key:

Qualifiers

J = Estimated value

U = Not Detected (method detection limit shown)

Other:

µg/m³ = Micrograms per cubic meter

-- = No air guideline value

N/A = Analyte not reported

Notes:

(1) New York State
Department of Health,
2006 (with 2024 updates),
Guidance for Evaluating
Soil Vapor Intrusion in New
York State
(https://health.ny.gov/environmental/indoor/vapor_intrusion/update.htm)

100

Ambient air values highlighted in blue
exceed NYSDOH Air Guideline Values.

0.45 J

Bold numbers indicate that the
chemical was detected.

**Table 6. Summary of NYSDOH Decision Matrix Analytes
Gowanus Canal, Brooklyn, NY**

Chemical Analyte	Property Address:		219 1st Street- Annex Building			
	Building Use:		Commercial/mixed			
	Location ID:	GC112-BA11	GC112-BA12	GC112-BA13	GC112-BA13	GC112-BA14
	Sample Type:	Normal	Normal	Normal	Duplicate	Normal
	Sample Matrix:	Basement Air	Basement Air	Basement Air	Basement Air	Basement Air
	Date:	3/31/2025	3/31/2025	3/31/2025	3/31/2025	3/31/2025
NYSDOH Air						
Guideline Value ⁽¹⁾						
VOCs by Method TO15 (µg/m ³)						
1,1,1-Trichloroethane (TCA)	--	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
1,1-Dichloroethene	--	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2,4-Trimethylbenzene	--	0.98	0.93 J	1.0	1.0	0.43 U
1,3,5-Trimethylbenzene (Mesitylene)	--	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Isooctane (2,2,4-Trimethylpentane)	--	0.19 U	0.19 U	0.19 U	0.56 J	0.44 J
Benzene	--	0.77	0.70	0.70	0.83	1.1
Carbon tetrachloride	--	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
cis-1,2-Dichloroethene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Cyclohexane	--	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Ethylbenzene	--	2.7	2.7	4.2	4.8	0.52 J
m,p-Xylene	--	9.1	9.1	14	16	1.7
Methylene chloride	60	1.1	1.4	4.9 J	1.2 J	1.1
Naphthalene	--	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U
n-Heptane	--	0.86	0.74 J	0.57 J	0.86	0.37 U
n-Hexane	--	3.0	2.5	2.5	1.4	1.6
o-Xylene	--	2.3	2.3	3.0	3.4	0.48 J
Tetrachloroethene (PCE)	30	0.47	0.50	1.8	1.6	0.31
Toluene	--	1.8	2.0	1.4	1.7	8.7
Trichloroethene (TCE)	2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Vinyl chloride	--	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U

Key:

Qualifiers

J = Estimated value

U = Not Detected (method detection limit shown)

Other

µg/m³ = Micrograms per cubic meter

-- = No air guideline value

N/A = Analyte not reported

100	Ambient air values highlighted in blue exceed NYSDOH Air Guideline Values.
0.45 J	Bold numbers indicate that the chemical was detected.

**Table 6. Summary of NYSDOH Decision Matrix Analytes
Gowanus Canal, Brooklyn, NY**

Chemical Analyte	Property Address:		219 1st Street - Annex Building		
	Building Use:		Commercial/mixed		
	Location ID:	GC112-BA15	GC112-BA16	GC112-BA17	GC112-OA01
	Sample Type:	Normal	Normal	Normal	Normal
	Sample Matrix:	Basement Air	Basement Air	Basement Air	Outdoor Air
	Date:	3/31/2025	3/31/2025	3/31/2025	3/31/2025
NYSDOH Air					
Guideline Value ⁽¹⁾					
VOCs by Method TO15 (µg/m ³)					
1,1,1-Trichloroethane (TCA)	--	0.43 U	0.43 U	0.43 U	0.43 U
1,1-Dichloroethene	--	0.23 U	0.23 U	0.23 U	0.23 U
1,2,4-Trimethylbenzene	--	1.2	1.1	1.1	0.43 U
1,3,5-Trimethylbenzene (Mesitylene)	--	0.39 U	0.39 U	0.39 U	0.39 U
Isooctane (2,2,4-Trimethylpentane)	--	0.19 U	0.45 J	0.47 J	0.19 U
Benzene	--	0.83	0.86	0.77	0.80
Carbon tetrachloride	--	0.25 U	0.25 U	0.25 U	0.25 U
cis-1,2-Dichloroethene	--	0.12 U	0.12 U	0.12 U	0.12 U
Cyclohexane	--	0.15 U	0.15 U	0.15 U	0.15 U
Ethylbenzene	--	3.8	5.6	4.0	0.26 U
m,p-Xylene	--	13	18	14	0.61 U
Methylene chloride	60	1.2	1.4	1.3	1.1
Naphthalene	--	0.68 U	0.68 U	0.68 U	0.68 U
n-Heptane	--	0.49 J	0.53 J	0.53 J	0.37 U
n-Hexane	--	0.99	1.2	0.92	0.85
o-Xylene	--	2.8	4.1	3.2	0.33 U
Tetrachloroethene (PCE)	30	1.4	6.7	0.95	0.20 U
Toluene	--	1.4	1.6	1.1	0.90
Trichloroethene (TCE)	2	0.10 U	0.10 U	0.10 U	0.10 U
Vinyl chloride	--	0.18 U	0.18 U	0.18 U	0.18 U

Key:

Qualifiers

J = Estimated value

U = Not Detected (method detection limit shown)

Other

µg/m³ = Micrograms per cubic meter

-- = No air guideline value

N/A = Analyte not reported

100	Ambient air values highlighted in blue exceed NYSDOH Air Guideline Values.
0.45 J	Bold numbers indicate that the chemical was detected.

Table 7. Summary of Results
Gowanus Canal, Brooklyn, New York

Property Address:	512 Carroll Street
Building Use:	Commercial/Mixed
Location ID:	GC112-AE
Sample Type:	Normal
Sample Matrix:	Effluent
Date:	6/30/2025
Chemical Analyte	
VOCs by Method TO15 ($\mu\text{g}/\text{m}^3$)	
1,1,1-Trichloroethane (TCA)	1.7 U
1,1-Dichloroethene	0.95 U
1,2,4-Trimethylbenzene	1.7 U
1,3,5-Trimethylbenzene (Mesitylene)	1.6 U
Isooctane (2,2,4-Trimethylpentane)	0.75 U
Benzene	2.4 J
Carbon tetrachloride	1.0 U
cis-1,2-Dichloroethene	0.48 U
Cyclohexane	0.62 U
Ethylbenzene	1.9 J
Methylene chloride	5.6
Naphthalene	5.8 J
n-Heptane	1.5 U
n-Hexane	3.5
m,p-Xylene	3.05
o-Xylene	3.0 J
Tetrachloroethene (PCE)	1.0 J
Toluene	6.0
Trichloroethene (TCE)	1.3
Vinyl chloride	0.72 U

Key:

Qualifiers

J = Estimated value

U = Not Detected (method detection limit shown)

Other

$\mu\text{g}/\text{m}^3$ = Micrograms per cubic meter

Table 8. Summary of NYSDOH Decision Matrix Analytes
Gowanus Canal, Brooklyn, NY

		Property Address:		219 1st Street - Annex Building				
		Building Use:		Commercial/mixed				
		Location ID:	GC112-BA07	GC112-BA08	GC112-BA09	GC112-BA10	GC112-BA11	GC112-BA12
		Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal
		Sample Matrix:	Basement Air	Basement Air	Basement Air	Basement Air	Basement Air	Basement Air
		Date:	7/1/2025	7/1/2025	7/1/2025	7/1/2025	7/1/2025	7/1/2025
		NYSDOH Air						
Chemical Analyte	Guideline Value ⁽¹⁾							
VOCs by Method TO15 (µg/m³)								
1,1,1-Trichloroethane (TCA)	--	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	
1,1-Dichloroethene	--	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	
1,2,4-Trimethylbenzene	--	2.8	3.5	2.3	2.2	2.3	2.1	
1,3,5-Trimethylbenzene (Mesitylene)	--	0.64 J	0.79 J	0.39 U	0.39 U	0.39 U	0.74 J	
Isooctane (2,2,4-Trimethylpentane)	--	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.65 J	
Benzene	--	0.48 J	0.45 J	0.45 J	0.45 J	0.61 J	0.51 J	
Carbon tetrachloride	--	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
cis-1,2-Dichloroethene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	
Cyclohexane	--	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	
Ethylbenzene	--	6.5	6.1	6.1	6.5	4.8	5.6	
m,p-Xylene	--	24	23	22	24	18	17	
Methylene chloride	60	1.4	1.4	1.9	1.7	1.8	1.6	
Naphthalene	--	0.68 UJ	0.68 UJ	0.68 UJ	0.68 UJ	0.68 UJ	0.68 U	
n-Heptane	--	0.66 J	0.66 J	0.53 J	0.61 J	0.74 J	1.8	
n-Hexane	--	0.95	0.85	0.95	1.0	1.9	2.9	
o-Xylene	--	5.2	4.8	4.8	4.8	4.0	4.8	
Tetrachloroethene (PCE)	30	1.5	2.8	1.4	1.4	1.1	1.2	
Toluene	--	1.7	1.6	1.7	1.6	1.7	1.8	
Trichloroethene (TCE)	2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
Vinyl chloride	--	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	

Key:

Qualifiers

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Other:

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100

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exceed NYSDOH Air Guideline Values.

0.45 J

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chemical was detected.

Table 8. Summary of NYSDOH Decision Matrix Analytes
Gowanus Canal, Brooklyn, NY

Property Address: Building Use: Location ID: Sample Type: Sample Matrix: Date:		219 1st Street - Annex Building Commercial/mixed					
		GC112-BA13	GC112-BA14	GC112-BA15	GC112-BA16	GC112-BA17	GC112-OA02
		Normal	Normal	Normal	Normal	Normal	Normal
		Basement Air	Basement Air	Basement Air	Basement Air	Basement Air	Outdoor Air
		7/1/2025	7/1/2025	7/1/2025	7/1/2025	7/1/2025	7/1/2025
NYSDOH Air Guideline Value ⁽¹⁾							
Chemical Analyte							
VOCs by Method TO15 (µg/m ³)							
1,1,1-Trichloroethane (TCA)	--	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
1,1-Dichloroethene	--	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2,4-Trimethylbenzene	--	0.43 U	7.9	1.8	0.43 U	2.6	0.43 U
1,3,5-Trimethylbenzene (Mesitylene)	--	0.54 J	2.1	0.48 J	0.54 J	0.69 J	0.39 U
Isooctane (2,2,4-Trimethylpentane)	--	0.61 J	0.61 J	0.61 J	0.61 J	0.70 J	0.70 J
Benzene	--	0.48 J	0.70	0.51 J	0.54 J	0.48 J	0.96
Carbon tetrachloride	--	0.25 U	0.63	0.25 U	0.25 U	0.63	0.25 U
cis-1,2-Dichloroethene	--	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Cyclohexane	--	0.33 J	0.93	0.34 J	0.15 U	0.38 J	0.15 U
Ethylbenzene	--	6.1	2.7	5.2	5.6	7.4	0.41 J
m,p-Xylene	--	18	8.3	13	17	20	0.96
Methylene chloride	60	1.6	2.3	1.6	1.9	1.5	2.1
Naphthalene	--	0.68 U	0.73 J	0.68 U	0.68 U	0.68 U	0.68 U
n-Heptane	--	0.37 U	1.9	1.5	1.2	1.1	0.78 J
n-Hexane	--	1.3	1.9	1.2	1.2	1.3	1.1
o-Xylene	--	4.3	0.33 U	3.5	4.0	5.2	0.33 U
Tetrachloroethene (PCE)	30	1.8	0.54	1.1	1.5	2.7	0.2 U
Toluene	--	1.7	2.3	1.7	1.7	1.8	1.7
Trichloroethene (TCE)	2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Vinyl chloride	--	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U

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0.45 J

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Table 9. Summary of NYSDOH Decision Matrix Analytes
Gowanus Canal Brooklyn, NY

Chemical Analyte	Property Address:		219 1st Street - Annex Building			
	Building Use:		Commercial/mixed			
	Location ID:	GC112-BA07	GC112-BA08	GC112-BA09	GC112-BA10	GC112-BA11
	Sample Type:	Normal	Normal	Normal	Normal	Normal
	Sample Matrix:	Basement Air	Basement Air	Basement Air	Basement Air	Basement Air
	Date:	8/22/2025	8/22/2025	8/22/2025	8/22/2025	8/22/2025
	NYSDOH Air					
	Guideline Value ⁽¹⁾					
VOCs by Method TO15 (µg/m ³)						
1,1,1-Trichloroethane (TCA)	--	0.593 U	0.421 U	0.603 U	0.426 U	0.434 U
1,1-Dichloroethene	--	0.128 U	0.091 U	0.13 U	0.0922 U	0.0939 U
1,2,4-Trimethylbenzene	--	3.5	3.38	1.94	1.65	84
1,3,5-Trimethylbenzene (Mesitylene)	--	1.27	1.26	0.582 J	0.549	18.4
Isooctane (2,2,4-Trimethylpentane)	--	0.605	0.515	1.35	0.521	0.619
Benzene	--	0.62	0.528	1.18	0.535	0.726
Carbon tetrachloride	--	0.204 U	0.462	1.16	0.146 U	0.149 U
cis-1,2-Dichloroethene	--	0.128 U	0.091 U	0.13 U	0.0922 U	0.0939 U
Cyclohexane	--	0.383 U	0.272 U	0.389 U	0.275 U	0.28 U
Ethylbenzene	--	9.83	7.89	12.8	8.8	5.39
m,p-Xylene	--	30.8	24.4	55	29.7	20
Methylene chloride	60	0.315 U	0.223 U	1.87 J	0.226 U	0.23 U
Naphthalene	--	1.63 J	1.06 J	6.00 J	0.473 U	0.482 U
n-Heptane	--	2.65	1.2	1.78	1.83	1.51
n-Hexane	--	0.365 U	0.809	22.4	0.754	3.67
o-Xylene	--	7.08	6.22	12.7	6.58	9.21
Tetrachloroethene (PCE)	30	1.4	9.53	3.3	0.694	0.315 U
Toluene	--	3.66	3.04	22.2	2.84	2.96
Trichloroethene (TCE)	2	0.174 U	0.123 U	0.177 U	0.125 U	0.127 U
Vinyl chloride	--	0.146 U	0.103 U	0.148 U	0.105 U	0.107 U

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100

Ambient air values highlighted in blue
 exceed NYSDOH Air Guideline Values.

0.45 J

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 chemical was detected.

Table 9. Summary of NYSDOH Decision Matrix Analytes
Gowanus Canal Brooklyn, NY

Chemical Analyte	Property Address: Building Use: Location ID: Sample Type: Sample Matrix: Date:	219 1st Street - Annex Building Commercial/mixed				
	NYSDOH Air Guideline Value ⁽¹⁾	GC112-BA12 Normal Basement Air 8/22/2025	GC112-BA13 Normal Basement Air 8/22/2025	GC112-BA14 Normal Basement Air 8/22/2025	GC112-BA15 Normal Basement Air 8/22/2025	GC112-BA15 Duplicate Basement Air 8/22/2025
	VOCs by Method TO15 (µg/m ³)					
1,1,1-Trichloroethane (TCA)	--	0.405 U	0.602 U	0.506 U	0.449 U	0.444 U
1,1-Dichloroethene	--	0.0875 U	0.13 U	0.109 U	0.0971 U	0.0959 U
1,2,4-Trimethylbenzene	--	1.78	1.87	1.3	2.75	2.95
1,3,5-Trimethylbenzene (Mesitylene)	--	0.608	0.645	0.293 U	0.867	0.904
Isooctane (2,2,4-Trimethylpentane)	--	0.619	0.245 J	0.722	0.595	0.543
Benzene	--	0.705	0.713	0.882	0.595	0.618
Carbon tetrachloride	--	0.139 U	0.207 U	0.174 U	0.154 U	0.152 U
cis-1,2-Dichloroethene	--	0.0875 U	0.13 U	0.109 U	0.0971 U	0.0959 U
Cyclohexane	--	0.261 U	0.389 U	0.327 U	0.29 U	0.287 U
Ethylbenzene	--	3.76	5.13	1.01	6.43	7.06
m,p-Xylene	--	12.3	16	3.07	20	21.9
Methylene chloride	60	0.215 U	0.319 U	0.268 U	0.238 U	0.235 U
Naphthalene	--	1.25 J	1.79 J	1.45 J	1.23 J	1.01 J
n-Heptane	--	1.41	3.18	0.195 U	1.08	1.15
n-Hexane	--	4.2	0.37 U	1.67	0.898	0.887
o-Xylene	--	3.45	4.1	1.15	4.81	5.25
Tetrachloroethene (PCE)	30	0.293 U	0.436 U	0.367 U	0.326 U	1.05
Toluene	--	2.99	3.02	2.95	6.65	6.6
Trichloroethene (TCE)	2	0.119 U	0.176 U	0.148 U	0.132 U	0.13 U
Vinyl chloride	--	0.0993 U	0.148 U	0.124 U	0.11 U	0.109 U

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100

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exceed NYSDOH Air Guideline Values.

0.45 J

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Table 9. Summary of NYSDOH Decision Matrix Analytes
Gowanus Canal Brooklyn, NY

Chemical Analyte	Property Address: Building Use: Location ID: Sample Type: Sample Matrix: Date:	219 1st Street - Annex Building Commercial/mixed				
		GC112-BA16 Normal Basement Air 8/22/2025	GC112-BA17 Normal Basement Air 8/22/2025	GC112-BA18 Normal Basement Air 8/22/2025	GC112-BA19 Normal Basement Air 8/22/2025	GC112-FA01 Normal First-floor Air 8/22/2025
	NYSDOH Air Guideline Value ⁽¹⁾					
VOCs by Method TO15 (µg/m ³)						
1,1,1-Trichloroethane (TCA)	--	0.459 U	0.473 U	0.463 U	0.496 U	0.54 U
1,1-Dichloroethene	--	0.0993 U	0.102 U	0.10 U	0.107 U	0.117 U
1,2,4-Trimethylbenzene	--	1.72	1.73	1.74	2.82	2.14
1,3,5-Trimethylbenzene (Mesitylene)	--	0.493	0.559	0.268 U	1.06	0.579
Isooctane (2,2,4-Trimethylpentane)	--	1.22	0.676	0.118 U	0.657	0.55
Benzene	--	1.06	0.957	0.549	0.795	0.565
Carbon tetrachloride	--	0.158 U	0.162 U	0.159 U	0.17 U	0.185 U
cis-1,2-Dichloroethene	--	0.0993 U	0.102 U	0.10 U	0.107 U	0.117 U
Cyclohexane	--	0.297 U	0.306 U	0.299 U	0.32 U	0.349 U
Ethylbenzene	--	6.83	4.58	4.12	8.41	1.38
m,p-Xylene	--	28.3	14.9	13.5	27.1	4.81
Methylene chloride	60	1.04 J	0.251 U	0.246 U	0.263 U	0.286 U
Naphthalene	--	4.46 J	1.95 J	1.75 J	1.30 J	2.53 J
n-Heptane	--	1.77	1.14	0.787	1.33	0.821
n-Hexane	--	17.9	1.6	0.819	0.305 U	0.332 U
o-Xylene	--	7.05	3.63	3.2	6.72	2.05
Tetrachloroethene (PCE)	30	5.3	1.26	1.3	1.61	0.391 U
Toluene	--	15	5.72	3.27	3.43	2.31
Trichloroethene (TCE)	2	0.377	0.139 U	0.136 U	0.145 U	0.158 U
Vinyl chloride	--	0.113 U	0.116 U	0.114 U	0.122 U	0.132 U

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100

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0.45 J

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Table 9. Summary of NYSDOH Decision Matrix Analytes
Gowanus Canal Brooklyn, NY

		Property Address:		219 1st Street - Annex Building				
		Building Use:		Commercial/mixed				
		Location ID:		GC112-FA02	GC112-FA03	GC112-FA04	GC112-SA01	GC112-SA02
		Sample Type:		Normal	Normal	Normal	Normal	Normal
		Sample Matrix:		First-floor Air	First-floor Air	First-floor Air	Second-floor Air	Second-floor Air
Date:		8/22/2025	8/22/2025	8/22/2025	8/22/2025	8/22/2025		
		NYSDOH Air						
Chemical Analyte	Guideline Value ⁽¹⁾							
VOCs by Method TO15 (µg/m ³)								
1,1,1-Trichloroethane (TCA)	--	0.534 U	0.451 U	0.509 U	0.475 U	0.439 U		
1,1-Dichloroethene	--	0.115 U	0.0975 U	0.11 U	0.103 U	0.095 U		
1,2,4-Trimethylbenzene	--	0.802	0.29 U	0.928	0.306 U	0.612		
1,3,5-Trimethylbenzene (Mesitylene)	--	0.309 U	0.261 U	0.295 U	0.275 U	0.254 U		
Isooctane (2,2,4-Trimethylpentane)	--	0.653	0.506	0.622	0.532	0.112 U		
Benzene	--	1.71	0.534	0.78	0.563	0.826		
Carbon tetrachloride	--	0.183 U	0.155 U	0.175 U	0.163 U	0.151 U		
cis-1,2-Dichloroethene	--	0.115 U	0.0975 U	0.11 U	0.103 U	0.095 U		
Cyclohexane	--	0.345 U	0.291 U	0.329 U	0.307 U	0.284 U		
Ethylbenzene	--	1.16	1.11	1.35	1.03	1.33		
m,p-Xylene	--	4.05	3.97	4.43	3.37	4.24		
Methylene chloride	60	0.283 U	0.239 U	0.27 U	0.252 U	0.233 U		
Naphthalene	--	0.592 U	2.11 J	1.69 J	1.85 J	1.81 J		
n-Heptane	--	2.1	0.173 U	0.196 U	1.19	0.903		
n-Hexane	--	2.46	1.25	1.41	0.292 U	0.27 U		
o-Xylene	--	1.11	1.32	1.2	0.99	1.12		
Tetrachloroethene (PCE)	30	0.711 J	0.327 U	0.369 U	0.344 U	0.318 U		
Toluene	--	3.86	2.15	4.1	2.19	2.2		
Trichloroethene (TCE)	2	0.157 U	0.132 U	0.149 U	0.139 U	0.129 U		
Vinyl chloride	--	0.131 U	0.111 U	0.125 U	0.117 U	0.108 U		

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0.45 J

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**Table 9. Summary of NYSDOH Decision Matrix Analytes
Gowanus Canal Brooklyn, NY**

		Property Address:		219 1st Street - Annex Building		
		Building Use:		Commercial/mixed		
		Location ID:		GC112-OA01	GC112-OA02	GC112-OA03
		Sample Type:		Normal	Normal	Normal
		Sample Matrix:		Outdoor Air	Outdoor Air	Outdoor Air
		Date:	8/22/2025	8/22/2025	8/22/2025	
NYSDOH Air						
Chemical Analyte	Guideline Value ⁽¹⁾					
VOCs by Method TO15 (µg/m ³)						
1,1,1-Trichloroethane (TCA)	--		0.43 U	0.565 U	0.631 U	
1,1-Dichloroethene	--		0.093 U	0.122 U	0.136 U	
1,2,4-Trimethylbenzene	--		0.277 U	0.363 U	0.406 U	
1,3,5-Trimethylbenzene (Mesitylene)	--		0.249 U	0.327 U	0.365 U	
Isooctane (2,2,4-Trimethylpentane)	--		0.701	0.46	0.514	
Benzene	--		0.659	0.512	0.528	
Carbon tetrachloride	--		0.148 U	0.194 U	0.216 U	
cis-1,2-Dichloroethene	--		0.093 U	0.122 U	0.136 U	
Cyclohexane	--		0.278 U	0.365 U	0.407 U	
Ethylbenzene	--		0.407	0.369 U	0.478 J	
m,p-Xylene	--		1.22	1.07	1.79	
Methylene chloride	60		0.228 U	0.30 U	0.335 U	
Naphthalene	--		0.477 U	1.36 J	1.51 J	
n-Heptane	--		0.538	0.454 J	0.62	
n-Hexane	--		1.06	0.347 U	0.388 U	
o-Xylene	--		0.448	0.374 J	0.597	
Tetrachloroethene (PCE)	30		0.312 U	0.409 U	0.457 U	
Toluene	--		2.09	1.53	0.985	
Trichloroethene (TCE)	2		0.126 U	0.166 U	0.185 U	
Vinyl chloride	--		0.106 U	0.139 U	0.155 U	

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**Table 10. Summary of Analytical Results for Water Sample
Gowanus Canal, Brooklyn, New York**

Analyte	Location ID:	GC112-WG01
	Address:	219 1st Street
	Description:	Utility Pit
	Date:	8/21/2025
Volatile Organic Compounds by Method 8260D (µg/L)		
1,1,1-Trichloroethane	1.2 UJ	
1,1,2,2-Tetrachloroethane	0.43 UJ	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.6 UJ	
1,1,2-Trichloroethane	0.95 UJ	
1,1-Dichloroethane	1.3 UJ	
1,1-Dichloroethene	1.3 UJ	
1,2,3-Trichlorobenzene	1.8 UJ	
1,2,3-Trichloropropane	3.3 UJ	
1,2,4-Trichlorobenzene	1.8 UJ	
1,2,4-Trimethylbenzene	1.9 UJ	
1,2-Dibromo-3-chloropropane	1.9 UJ	
1,2-Dibromoethane (Ethylene dibromide)	2.5 UJ	
1,2-Dichlorobenzene	1.1 UJ	
1,2-Dichloroethane	0.44 UJ	
1,2-Dichloropropane	0.37 UJ	
1,3,5-Trimethylbenzene (Mesitylene)	1.6 UJ	
1,3-Dichlorobenzene	1.7 UJ	
1,4-Dichlorobenzene	1.7 UJ	
2-Hexanone	5.7 UJ	
Acetone	34 J	
Benzene	0.35 UJ	
Bromochloromethane	2.1 UJ	
Bromodichloromethane	0.76 UJ	
Bromoform	2.7 UJ	
Bromomethane	2.8 UJ	
Carbon disulfide	4.1 UJ	
Carbon tetrachloride	1 UJ	
Chlorobenzene	1.9 UJ	
Chloroethane	1.6 UJ	
Chloroform	1.6 UJ	
Chloromethane	2 UJ	
cis-1,2-Dichloroethene	2.4 UJ	
cis-1,3-Dichloropropene	0.35 UJ	
Cyclohexane	1.6 UJ	
Dibromochloromethane	0.43 UJ	
Dichlorodifluoromethane	1.6 UJ	
Ethylbenzene	7.2 J	
Isooctane (2,2,4-Trimethylpentane)	1.4 UJ	
Isopropylbenzene (Cumene)	1.7 UJ	
m,p-Xylene	26 J	
Methyl Acetate	3.9 UJ	
Methyl ethyl ketone (2-Butanone)	19 UJ	
Methyl isobutyl ketone (4-Methyl-2-pentanone)	6.5 UJ	
Methylcyclohexane	3.5 UJ	
Methylene chloride	3.3 UJ	
o-Xylene (1,2-Dimethylbenzene)	5.7 J	
Styrene	2.1 UJ	
tert-Butyl methyl ether	1.1 UJ	
Tetrachloroethene (PCE)	1.4 UJ	
Toluene	3.1 J	
trans-1,2-Dichloroethene	1.2 UJ	
trans-1,3-Dichloropropene	0.59 UJ	
Trichloroethene (TCE)	0.37 UJ	
Trichlorofluoromethane	1.6 UJ	
Vinyl chloride	2 UJ	
Xylenes	32 J	

Key:

µg/L = Micrograms per liter

J = Estimated value

UJ = Not detected/estimated detection limit

Bold numbers indicate that the chemical was detected.

Analyte	Location ID:	GC112-WG01
	Address:	219 1st Street
	Description:	Utility Pit
	Date:	8/21/2025
Semivolatile Organic Compounds by Method 8270E (µg/L)		
1,2,4,5-Tetrachlorobenzene	1.2 UJ	
1,4-Dioxane (p-Dioxane)	1.6 UJ	
2,3,4,6-Tetrachlorophenol	0.75 UJ	
2,4,5-Trichlorophenol	0.88 UJ	
2,4,6-Trichlorophenol	0.86 UJ	
2,4-Dichlorophenol	1.1 UJ	
2,4-Dimethylphenol	0.62 UJ	
2,4-Dinitrophenol	11 UJ	
2,4-Dinitrotoluene	1 UJ	
2,6-Dinitrotoluene	0.83 UJ	
2-Chloronaphthalene	1.2 UJ	
2-Chlorophenol	0.95 UJ	
2-Methylnaphthalene	14 J	
2-Methylphenol (o-Cresol)	0.67 UJ	
2-Nitroaniline	1.2 UJ	
2-Nitrophenol	0.75 UJ	
3,3'-Dichlorobenzidine	1.4 UJ	
3-Nitroaniline	1.9 UJ	
4,6-Dinitro-2-methylphenol	8.6 UJ	
4-Bromophenyl phenyl ether	0.75 UJ	
4-Chloro-3-methylphenol	1.3 UJ	
4-Chloroaniline	1.9 UJ	
4-Chlorophenyl phenyl ether	1.3 UJ	
4-Nitroaniline	1.2 UJ	
4-Nitrophenol	4 UJ	
Acenaphthene	1.1 UJ	
Acenaphthylene	0.82 UJ	
Acetophenone	2.3 UJ	
Anthracene	1.3 UJ	
Atrazine	1.3 UJ	
Benzaldehyde	15 J	
Benzo(a)anthracene	0.59 UJ	
Benzo(a)pyrene	0.41 UJ	
Benzo(b)fluoranthene	0.68 UJ	
Benzo(g,h,i)perylene	0.7 UJ	
Benzo(k)fluoranthene	0.67 UJ	
Benzyl butyl phthalate	7.2 J	
Biphenyl (Diphenyl)	1.2 UJ	
Bis(2-chloroethoxy)methane	0.59 UJ	
Bis(2-chloroethyl) ether (2-Chloroethyl ether)	0.63 UJ	
Bis(2-chloroisopropyl)ether	0.63 UJ	
Bis(2-ethylhexyl)phthalate	20 J	
Caprolactam	2.2 UJ	
Carbazole	0.68 UJ	
Chrysene	0.91 UJ	
Cresols, m & p	26 J	
Dibenz(a,h)anthracene	0.72 UJ	
Dibenzofuran	1.1 UJ	
Diethyl phthalate	6.9 J	
Dimethyl phthalate	0.77 UJ	
Di-n-butyl phthalate	0.84 UJ	
Di-n-octylphthalate	4 UJ	
Fluoranthene	0.84 UJ	
Fluorene	0.91 UJ	
Hexachlorobenzene	0.4 UJ	
Hexachlorobutadiene	0.78 UJ	
Hexachlorocyclopentadiene	3.6 UJ	
Hexachloroethane	0.31 UJ	
Indeno(1,2,3-c,d)pyrene	0.94 UJ	
Isophorone	2.6 J	
Naphthalene	0.54 UJ	
Nitrobenzene	0.57 UJ	
n-Nitrosodi-n-propylamine	0.43 UJ	
n-Nitrosodiphenylamine	0.89 UJ	
Pentachlorophenol	6.6 UJ	
Phenanthrene	1.3 UJ	
Phenol	25 J	
Pyrene	1.6 UJ	

Key:

µg/L = Micrograms per liter

J = Estimated value

UJ = Not detected/estimated detection limit

Bold numbers indicate that the chemical was detected.

Table 11. Summary of NYSDOH Decision Matrix Analytes
Gowanus Canal, Brooklyn, New York

Chemical Analyte	Property Address:	219 1st Street		219 1st Street	
	Building Use:	Commercial/mixed		Commercial/mixed	
	Location ID:	GC112-AE03	GC112-AE03	GC112-AE02	GC112-AE02
	Sample Type:	Normal	Normal	Normal	Normal
	Sample Location:	Basement HVAC Supply		First Floor HVAC Intake	
	Date:	8/21/2025	8/22/2025	8/21/2025	8/22/2025
	NYSDOH Air Guideline Value ⁽¹⁾				
VOCs by Method TO15 (µg/m³)					
1,1,1-Trichloroethane (TCA)	--	0.681 U	0.699 U	0.621 U	0.626 U
1,1-Dichloroethene	--	0.147 U	0.151 U	0.134 U	0.135 U
1,2,4-Trimethylbenzene	--	2.19	1.42	0.932	1.34
1,3,5-Trimethylbenzene (Mesitylene)	--	0.394 U	0.405 U	0.359 U	0.362 U
Isooctane (2,2,4-Trimethylpentane)	--	0.624	0.499	0.158 U	0.159 U
Benzene	--	0.569	6.48	0.865	0.916
Carbon tetrachloride	--	0.234 U	0.240 U	0.213 U	0.215 U
cis-1,2-Dichloroethene	--	0.147 U	0.151 U	0.134 U	0.135 U
Cyclohexane	--	0.440 U	0.451 U	0.401 U	0.404 U
Ethylbenzene	--	2.26	3.64	1.65	2.79
m,p-Xylene	--	7.35	9.67	5.94	8.59
Methylene chloride	60	0.361 U	0.742 J	0.517 J	0.332 U
Naphthalene	--	2.49 J	26.1	0.852 J	22.8
n-Heptane	--	0.913	6	0.239 U	1.79
n-Hexane	--	0.419 U	11.3	1	0.385 U
o-Xylene	--	2.39	3.44	1.65	2.90
Tetrachloroethene (PCE)	30	1.21	2.90	1.19	2.04
Toluene	--	7.28	11	5.26	7.61
Trichloroethene (TCE)	2	0.638	0.205 U	0.182 U	0.183 U
Vinyl chloride	--	0.167 U	0.172 U	0.152 U	0.154 U

Key:

Qualifiers

J = Estimated value

U = Not Detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Other

µg/m³ = Micrograms per cubic meter

Notes:

(1) New York State Department of Health, 2006 (with 2024 updates),
Guidance for Evaluating Soil Vapor Intrusion in New York State
(https://health.ny.gov/environmental/indoor/vapor_intrusion/update.htm)

(2) Samples collected on 8/21/2025 were collected while the HVAC
system was on; samples collected on 8/22/2025 were collected while
HVAC system was off.

100	Ambient air values highlighted in blue exceed NYSDOH Air Guideline Values.
0.45 J	Bold numbers indicate that the chemical was detected.

Table 12. Summary of NYSDOH Decision Martix Analytes
Gowanus Canal, Brooklyn, New York

Chemical Analyte	Property Address:	219 1st Street - Annex Building							
	Building Use:	Commercial/mixed							
	Location ID:	GC112A-SV01	GC112A-SV02	GC112A-SV03	GC112A-SV03	GC112A-SV04	GC112A-SV05	GC112A-OA04	GC112A-OA05
	Sample Type:	Normal	Normal	Normal	Duplicate	Normal	Normal	Normal	Normal
	Sample Location:	Sub-slab Vapor	Sub-slab Vapor	Sub-slab Vapor	Sub-slab Vapor	Sub-slab Vapor	Sub-slab Vapor	Outdoor Air	Outdoor Air
	Date:	11/16/2025	11/16/2025	11/16/2025	11/16/2025	11/16/2025	11/16/2025	11/16/2025	11/16/2025
	NYSDOH Air Guideline Value ⁽¹⁾								
VOCs by Method TO15 (µg/m³)									
1,1,1-Trichloroethane (TCA)	--	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1-Dichloroethene	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,4-Trimethylbenzene	--	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1,3,5-Trimethylbenzene (Mesitylene)	--	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Isooctane (2,2,4-Trimethylpentane)	--	0.18 U	0.18 U	0.18 U	0.18 U	0.37 J	0.18 U	0.49 J	0.39 J
Benzene	--	0.26 J	0.14 U	0.14 U	0.14 U	0.22 J	0.40 J	0.58 J	0.53 J
Carbon tetrachloride	--	0.14 U	0.14 U	0.14 U	0.14 U	0.46	0.14 U	0.49	0.14 U
cis-1,2-Dichloroethene	--	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Cyclohexane	--	0.11 U	0.11 U	0.11 U	0.11 U	0.28 J	0.38 J	0.41 J	0.29 J
Ethylbenzene	--	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
m,p-Xylene	--	0.41 U	0.61 J	0.73 J	0.70 J	1.0 J	0.96 J	0.71 J	0.59 J
Methylene chloride	60	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Naphthalene	--	2.5	1.6 U	4.9	3.7	4.7	5.0	1.6 U	1.6 U
n-Heptane	--	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
n-Hexane	--	0.62 J	0.39 U	0.39 U	0.39 U	0.39 U	0.40 J	0.95 J	0.61 J
o-Xylene	--	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene (PCE)	30	0.14 U	1.5 J	0.14 U	0.14 U	1.5 J	0.14 U	0.14 U	1.1 J
Toluene	--	0.69 J	0.97	0.82	0.90	1.3	2.0	1.1	0.89
Trichloroethene (TCE)	2	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Vinyl chloride	--	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U

Notes:

(1) New York State Department of Health, 2006 (with 2024 updates), Guidance for Evaluating Soil Vapor Intrusion in New York State (https://health.ny.gov/environmental/indoors/vapor_intrusion/updates.htm)

Key:

Qualifiers

J = Estimated value

U = Not Detected (method detection limit shown)

Other

µg/m³ = Micrograms per cubic meter

100	Ambient air values highlighted in blue exceed NYSDOH Air Guideline Values.
0.45 J	Bold numbers indicate that the chemical was detected.

Table 13. Summary of NYSDOH Decision Matrix Analytes
Gowanus Canal, Brooklyn, New York

Chemical Analyte	Property Address:	219 1st Street - Annex Building						
	Building Use:	Commercial/mixed						
	Location ID:	GC112A-SG1	GC112A-SG2	GC112A-SG3	GC112A-SG4	GC112A-SG5	GC112A-SG6	GC112A-SG7
	Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal
	Sample Location:	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
	Date:	11/30/2025	11/30/2025	11/30/2025	11/30/2025	11/30/2025	11/30/2025	11/30/2025
	NYSDOH Air							
	Guideline Value ⁽¹⁾							
VOCs by Method TO15 (µg/m³)								
1,1,1-Trichloroethane (TCA)	--	0.24 U	0.24 U	0.24 U	1.8	0.24 U	0.24 U	13
1,1-Dichloroethene	--	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,4-Trimethylbenzene	--	0.39 U	1.2	0.39 U	0.39 U	0.39 U	1.1	0.39 U
1,3,5-Trimethylbenzene (Mesitylene)	--	0.23 U	1.2	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Isooctane (2,2,4-Trimethylpentane)	--	0.87 J	3.0	3.9	0.43 J	0.81 J	4.6	1.0
Benzene	--	0.20 J	1.0	0.99	0.63 J	0.67	0.89	0.52 J
Carbon tetrachloride	--	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
cis-1,2-Dichloroethene	--	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Cyclohexane	--	15	6.5	76	1.6	0.11 U	15	14
Ethylbenzene	--	0.82 J	2.3	1.1	0.23 U	0.51 J	1.2	2.5
m,p-Xylene	--	2.8	8.6	1.6 J	1.2 J	1.8 J	5.1	12
Methylene chloride	60	0.63 U	0.63 U	0.63 U	0.72 J	0.63 U	1.3 J	0.63 U
Naphthalene	--	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
n-Heptane	--	18	6.8	3.9	2.0	3.1	16	38
n-Hexane	--	1.5 J	2.0	20	1.1 J	0.81 J	1.8	1.7 J
o-Xylene	--	0.77 J	3.2	0.54 J	0.46 J	0.63 J	1.7	3.8
Tetrachloroethene (PCE)	30	4.3	8.8	18	5.5	2.7	130	23
Toluene	--	28	18	15	6.5	10	44	130
Trichloroethene (TCE)	2	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	63	0.13 U
Vinyl chloride	--	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U

Notes:

(1) New York State Department of Health, 2006 (with 2024 updates), Guidance for Evaluating Soil Vapor Intrusion in New York State
 (https://health.ny.gov/environmental/indoor/vapor_intrusion/update.htm)

Key:

Qualifiers

J = Estimated value

U = Not Detected (method detection limit shown)

Other

µg/m³ = Micrograms per cubic meter

100	Ambient air values highlighted in blue exceed NYSDOH Air Guideline Values.
0.45 J	Bold numbers indicate that the chemical was detected.