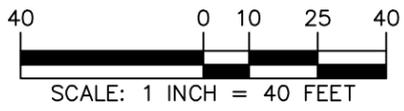


**LEGEND:**

-  APPROXIMATE SITE BOUNDARY
-  APPROXIMATE SUB-CELLAR BOUNDARY
-  PETROLEUM-IMPACTED AREA
-  TZ01  
IN-SITU SAMPLES COLLECTED WITHIN THE PETROLEUM-IMPACTED AREA BETWEEN 7.5 AND 9 FEET BELOW CELLAR GRADE. IN-SITU SAMPLES WERE ALSO COLLECTED BETWEEN 5 AND 6 FEET IN TZ02 AND TZ03. PETROLEUM-RELATED VOCs WERE NOT DETECTED IN SAMPLES ABOVE THE NYCRR PART 375 UU SCOs.
-  TZ08  
IN-SITU SAMPLE COLLECTED WITHIN THE PETROLEUM-IMPACTED AREA BETWEEN 8 AND 9 FEET BELOW CELLAR GRADE WHERE ONE PETROLEUM-RELATED VOC (TOTAL XYLENES) WAS DETECTED ABOVE THE NYCRR PART 375 UU SCOs.
-  5-6  
DEPTH INTERVAL (IN FEET) WHERE NUISANCE CONDITIONS (STAINING, ODORS, AND/OR ELEVATED PID READINGS) WERE OBSERVED.

**NOTES:**

1. BASEMAP: BOUNDARY & TOPOGRAPHIC SURVEY, PREPARED BY CONTROL POINT ASSOCIATES INC., DATED OCTOBER 14, 2005.
2. CELLAR GRADE IS BETWEEN APPROXIMATELY 7 AND 12 FEET BELOW SIDE WALK GRADE AND THE SUB-CELLAR IS APPROXIMATELY 20 FEET BELOW SIDE WALK GRADE.
3. AN ADDITIONAL SAMPLE WAS COLLECTED FROM TZ04 BETWEEN 5 AND 6 FEET BELOW CELLAR GRADE. PETROLEUM-RELATED VOCs WERE NOT DETECTED IN SAMPLES ABOVE THE UU SCOs.
4. NYCRR = NEW YORK CODES, RULES, AND REGULATIONS
5. PID = PHOTOIONIZATION DETECTOR
6. UU SCO = UNRESTRICTED USE SOIL CLEANUP OBJECTIVE
7. VOC = VOLATILE ORGANIC COMPOUND



<p><b>LANGAN</b> Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	<p>Project <b>4650 BROADWAY</b> BLOCK No. 2175, LOT No. 1 NEW YORK NEW YORK</p>	<p>Figure Title <b>SUPPLEMENTAL SOIL INVESTIGATION MAP</b></p>	<p>Project No. 170505501</p>	<p>Figure No. <b>1</b></p>
	<p>Date 04/16/2021</p>	<p>Drawn By LE</p>	<p>Checked By BG</p>	

**Table 1  
Supplemental Soil Investigation  
Soil Sample Analytical Results Summary**

**4650 Broadway  
New York, New York  
NYSDEC BCP Site No.: C231123  
Langan Project No.: 170505501**

Location	NYSDEC Part 375 Unrestricted Use	TZ01	TZ02	TZ02	TZ03	TZ03	TZ04	TZ05	TZ06	TZ07	TZ08	TZ09	TZ10	TZ11	TZ12	TZ13	TZ14	
Sample ID	Sample Date	TZ01_8-9	TZ02_5-6	TZ02_8-9	TZ03_5-6	TZ03_8-9	TZ04_8-9	TZ05_7.5-8	TZ06_8-9	TZ07_8-9	TZ08_8-9	TZ09_8-9	TZ10_8-9	TZ11_8-9	TZ12_8-9	TZ13_8-9	TZ14_8-9	
Laboratory ID	Sample Date	L2114864-04	L2114864-02	L2114864-03	L2114515-02	L2114515-01	L2114202-02	L2114202-03	L2115126-01	L2115126-02	L2115126-03	L2115126-04	L2114202-01	L2115126-05	L2115126-06	L2115126-07	L2115126-08	
Sample Depth (feet bgs)	Sample Date	3/24/2021	3/24/2021	3/24/2021	3/23/2021	3/23/2021	3/22/2021	3/22/2021	3/25/2021	3/25/2021	3/25/2021	3/25/2021	3/22/2021	3/25/2021	3/25/2021	3/25/2021	3/25/2021	
Sample Depth (feet bgs)	Sample Date	8-9	5-6	8-9	5-6	8-9	8-9	7.5-8	8-9	8-9	8-9	8-9	8-9	8-9	8-9	8-9	8-9	
<b>Volatile Organic Compounds (mg/kg)</b>																		
1,2,4,5-Tetramethylbenzene	~	0.12 U	0.28 U	0.0017 J	0.0028 U	0.0017 U	0.0021 U	0.0022 U	0.0021 U	0.0023 U	0.02 J	0.0019 U	0.0021 U	0.0024 U	0.0012 J	0.15 U	0.0023 U	
1,2,4-Trimethylbenzene	3.6	0.12 U	0.28 U	0.0023 U	0.0028 U	0.0017 U	0.0021 U	0.0022 U	0.0021 U	0.0023 U	0.48 U	0.0019 U	0.0021 U	0.0081 U	0.0018 J	1.7 U	0.0023 U	
1,3,5-Trimethylbenzene (Mesitylene)	8.4	0.12 U	0.28 U	0.0023 U	0.0028 U	0.0017 U	0.0021 U	0.0022 U	0.0021 U	0.0023 U	0.12 J	0.0019 U	0.0021 U	0.0026 U	0.00071 J	0.53 U	0.0023 U	
1,4-Diethyl Benzene	~	0.12 U	0.28 U	0.00058 J	0.0028 U	0.0017 U	0.0021 U	0.0022 U	0.0021 U	0.0023 U	0.042 J	0.0019 U	0.0021 U	0.0007 J	0.003 U	0.58 U	0.0023 U	
4-Ethyltoluene	~	0.12 U	0.28 U	0.0023 U	0.0028 U	0.0017 U	0.0021 U	0.0022 U	0.0021 U	0.0023 U	0.23 U	0.0019 U	0.0021 U	0.005 U	0.0011 J	0.94 U	0.0023 U	
Acetone	0.05	0.59 U	<b>0.76</b> J	0.011 U	<b>0.066</b> U	0.0083 U	0.01 U	0.011 U	0.011 U	0.007 J	0.65 U	0.011 U	0.0091 J	0.011 U	0.0095 U	0.59 U	0.012 U	
Benzene	0.06	0.03 U	0.071 U	0.00057 U	0.00071 U	0.00042 U	0.00052 U	0.00056 U	0.00053 U	0.00056 U	0.0002 J	0.00048 U	0.00053 U	0.00054 U	0.00047 U	0.029 U	0.00058 U	
Bromomethane	~	0.12 U	0.28 U	0.0023 U	0.0028 U	0.0017 U	0.0021 U	0.0022 U	0.0021 U	0.0023 U	0.08 J	0.0019 U	0.0021 U	0.0022 U	0.0019 U	0.086 J	0.0023 U	
Chloroethane	~	0.12 U	0.28 U	0.0023 U	0.0028 U	0.0017 U	0.0021 U	0.0022 U	0.0021 U	0.0023 U	0.13 U	0.0019 U	0.0012 J	0.0022 U	0.0019 U	0.12 U	0.0023 U	
Cymene	~	0.059 U	0.14 U	0.0011 U	0.0014 U	0.00083 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.00083 J	0.00096 U	0.0011 U	0.0011 U	0.00095 U	0.033 J	0.0012 U	
Ethylbenzene	1	0.059 U	0.14 U	0.0011 U	0.0014 U	0.00083 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.15 U	0.001 U	0.00073 J	0.001 J	0.00034 J	0.048 J	0.0012 U	
Isopropylbenzene (Cumene)	~	0.059 U	0.14 U	0.0011 U	0.0014 U	0.00083 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.016 J	0.00014 J	0.00082 J	0.00075 J	0.00013 J	0.084 U	0.0012 U	
M,P-Xylene	~	0.12 U	0.28 U	0.0023 U	0.0028 U	0.0017 U	0.0021 U	0.0022 U	0.0021 U	0.0023 U	1.8 U	0.0019 U	0.0021 U	0.0027 U	0.0019 U	0.23 U	0.0023 U	
Methyl Ethyl Ketone (2-Butanone)	0.12	0.59 U	1.4 U	0.011 U	0.013 J	0.0083 U	0.01 U	0.011 U	0.011 U	0.011 U	0.65 U	0.0096 U	0.011 U	0.011 U	0.0095 U	0.59 U	0.012 U	
Naphthalene	12	0.24 U	0.57 U	0.0046 U	0.0057 U	0.0033 U	0.0042 U	0.0045 U	0.0043 U	0.0045 U	0.16 J	0.0038 U	0.0042 U	0.0043 U	0.0038 U	0.12 J	0.0046 U	
n-Butylbenzene	12	0.059 U	0.14 U	0.0011 U	0.0014 U	0.00083 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.012 J	0.00096 U	0.0011 U	0.0002 J	0.00039 J	0.059 U	0.0012 U	
n-Propylbenzene	3.9	0.059 U	0.14 U	0.0011 U	0.0014 U	0.00083 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.049 J	0.00016 J	0.00059 J	0.0012 U	0.0004 J	0.27 U	0.0012 U	
o-Xylene (1,2-Dimethylbenzene)	~	0.059 U	0.14 U	0.0011 U	0.0014 U	0.00083 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.021 J	0.00096 U	0.0011 U	0.0011 U	0.00095 U	0.0016 U	0.0012 U	
Sec-Butylbenzene	11	0.059 U	0.14 U	0.0011 U	0.0014 U	0.00083 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.00096 U	0.0011 U	0.00068 J	0.00034 J	0.038 J	0.0012 U	
Total Xylenes	0.26	0.059 U	0.14 U	0.0011 U	0.0014 U	0.00083 U	0.001 U	0.0011 U	0.0011 U	0.0011 U	<b>1.8</b> J	0.00096 U	0.0011 U	0.0027 U	0.00095 U	0.23 U	0.0012 U	
Total VOCs	~	ND	0.76 U	0.00228 U	0.079 U	0.0083 U	ND	ND	ND	0.007 U	3.18 U	0.0123 U	0.0124 U	0.0253 U	0.00941 U	4.87 U	ND	

- Notes:**
- Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use Soil Cleanup Objectives (SCO).
  - Criterion comparisons for total chromium are provided for reference. Promulgated SCOs shown are for trivalent chromium.
  - Only detected analytes are shown in the table.
  - Detected analytical results above Unrestricted Use SCOs are bolded and shaded.
  - Analytical results with reporting limits (RL) above the lowest applicable criteria are italicized.
  - ~ = Regulatory limit for this analyte does not exist
  - bgs = below grade surface
  - mg/kg = milligrams per kilogram
  - ND = Not detected

- Qualifiers:**
- J = The analyte was detected above the Method Detection Limit (MDL), but below the RL; therefore, the result is an estimated concentration.
  - U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

**Table 2  
Supplemental Soil Investigation  
Nuisance Conditions Summary Table**

4650 Broadway  
New York, New York  
NYSDEC BCP Site No.: C231123  
Langan Project No. 170505501

Sample ID	Depth Interval With Observed Nuisance Conditions (feet below cellar grade)	Petroleum-Like Odors Observed	Petroleum-Like Staining Observed	Max. PID Reading	Depth Interval of Collected Samples (feet below cellar grade)	Exceedances of the Part 375 UU SCOs
TZ02	5-6	Y	Y	0	5-6 and 8-9	Yes - Only Acetone
TZ03	5-6	Y	Y	0.8	5-6 and 8-9	Yes - Only Acetone
TZ08	7-9	Y	N	57.9	8-9	Yes - Total Xylenes
TZ11	5.5-12	Y	Y	4,143	8-9	No
TZ12	3-9	Y	Y	4,908	8-9	No
TZ13	4.5-10	Y	Y	3,370	8-9	No
TZ14	5-7.5	Y	Y	173	8-9	No

PID = Photoionization Detector

UU SCOs = Unrestricted Use Soil Cleanup Objectives