DAILY FIELD REPORT 006

Prepared By: LANGAN

WEATHER	Snow		Rain		Overcast		Partly Cloudy	x	Sunny	x
TEMP.	< 32		32-50		50-70		70-85	x	>85	x

BCP Project No:	C224304	**Date:**	July 12, 2021
Project Name:	45 Commercial Street	**Time:**	6:45 am to 3:15 pm

Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan)

Construction Manager: Monadnock Construction Inc. (MC)
Foundation Contractor: StructureTech New York, Inc. (STNY)
Soil Broker: Clean Earth LLC (CE)

Langan Field Personnel:
Jacob Menken
Jeremy Moon

Work Activities Performed:

- STNY used a pile driver or drill rig to install the following:
  - Structural pile 27, to elevation[1] (el.) -55 (about 67 feet below grade surface [bgs]) within waste characterization grid COMP H .
  - Structural pile 49, to el. -55 (about 67 feet bgs) within waste characterization grid COMP H.
  - Structural pile 51, to el. -53 (about 65 feet bgs) within waste characterization grid COMP A.
  - Structural pile 216, to el. -39.5 (about 53 feet bgs) within waste characterization grid COMP B.
  - Structural pile 239, to el. -40.2 (about 52 feet bgs) within waste characterization grid COMP F.
  - Reaction pile immediately south of structural pile 255, to el. -45 (about 57 feet bgs) within waste characterization grid COMP D.
- STNY excavated the following areas of the site to facilitate the installation of structural piles. Excavated material consisted of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination, and was temporarily stockpiled adjacent to each excavation. The excavations were backfilled with the same soil that was previously excavated from each location.
  - Two 6-foot-wide by 6-foot-long areas to a maximum depth of 4 feet bgs within waste characterization grid COMP H 0-5.
  - One 6-foot-wide by 6-foot-long area to a maximum depth of 4 feet bgs within waste characterization grid COMP A 0-5.

Material Tracking:

- No material was imported to the site.
- No material was exported from the site.

Samples Collected:

- No samples were collected.

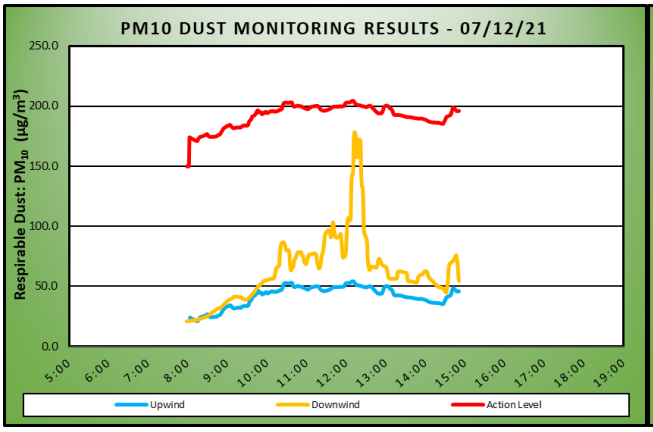
[1] Elevations are based on the North American Vertical Datum of 1988 (NAVD88), which is approximately 1.1 feet above mean sea level datum at Sandy Hook, New Jersey as defined by the United States Geologic Survey (USGS NGVD 1929).

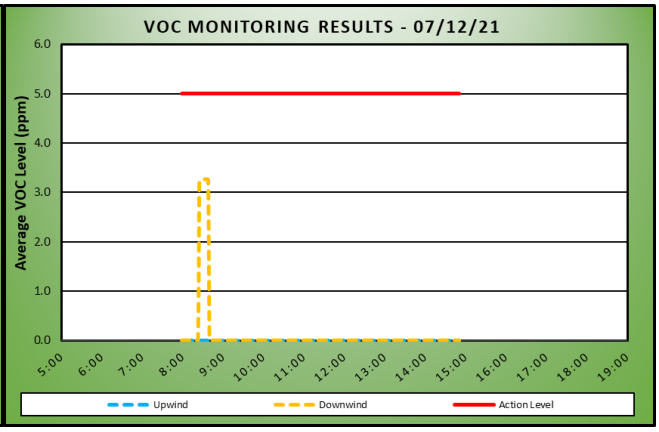
Air Monitoring:

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	24.0		Daily Background	0.0	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	41.5	62.4	Daily Time Weighted Average	0.0	0.1
Maximum 15-min Average	54.2	178.1	Maximum 15-min Average	0.0	3.3
Minimum 1-min Instant Reading	18.5	19.3	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	78.5	481.3	Maximum 1-min Instant Reading	0.0	31.5

µg/m³-micrograms per cubic meter. ppm= parts per million.

No particulate or organic vapor exceedances at the downwind Community Air Monitoring Program (CAMP) station were encountered. The daily CAMP monitoring results are also presented in the following charts:





Planned Activities:

- STNY will continue installing structural and reaction piles.

File Name: 2021-07-12 Daily Field Report_006

SITE PLAN

LEGEND

- **Site Boundary**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Asphalt and Concrete)**
- **Approximate Location of Excavation**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Completed Pile**

File Name: 2021-07-12 Daily Field Report_006

Photo Log

Photo 1: View of STNY advancing index pile 27 within waste characterization grid COMP H (facing west).	
Photo 2: View of the STNY backfilling index pile 49 excavation within waste characterization grid COMP H (facing northeast).	

Photo 3: View of STNY advancing a reaction pile immediately south of index pile 255, within waste characterization grid COMP D (facing northwest).	
Photo 4: View of the STNY excavating within waste characterization grid COMP A to install structural pile 51 (facing northwest).	

DAILY FIELD REPORT 007

Prepared By: LANGAN

WEATHER	Snow		Rain	x	Overcast	x	Partly Cloudy		Sunny	
TEMP.	< 32		32-50		50-70		70-85	x	>85	

BCP Project No:	C224304	**Date:**	July 13, 2021
Project Name:	45 Commercial Street	**Time:**	6:45 am to 5:15 pm

Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan)

Construction Manager: Monadnock Construction Inc. (MC)
Foundation Contractor: StructureTech New York, Inc. (STNY)
Soil Broker: Clean Earth LLC (CE)

Langan Field Personnel:
Tyler Goodnough
Ali Binder

Work Activities Performed:

- STNY used a pile driver or drill rig to install the following:
  - Reaction pile immediately north of structural pile #76, to elevation[1] (el.) -58 (about 60 feet below grade surface [bgs]) within waste characterization grid COMP G (0-5).
  - Reaction pile immediately south of structural pile #76, to el. –38 (about 40 feet bgs) within waste characterization grid COMP G (0-5).
- STNY excavated an about 32-foot-long by 7-foot-wide trench within waste characterization COMP G (0-5) to a maximum depth of about 2 feet bgs to direct water used to advance reaction piles. The water was then pumped into a container and reused by the drill rig. Excavated material consisted of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination, and was stockpiled adjacent to the excavation on top of intact asphalt surface cover.
- STNY relocated the soil stockpile[2] located within waste characterization grid COMP C to waste characterization COMP J North.
- STNY removed an about 20-foot-long by 10-foot-wide area of asphalt surface cover within waste characterization grids COMP D and COMP J North in preparation to install structural pile #255. The asphalt added into an existing construction and demolition (C&D) debris stockpile located within waste characterization grid COMP J North.

Material Tracking:

- No material was imported to the site.
- No soil/fill was exported from the site.

Samples Collected:

- No samples were collected.

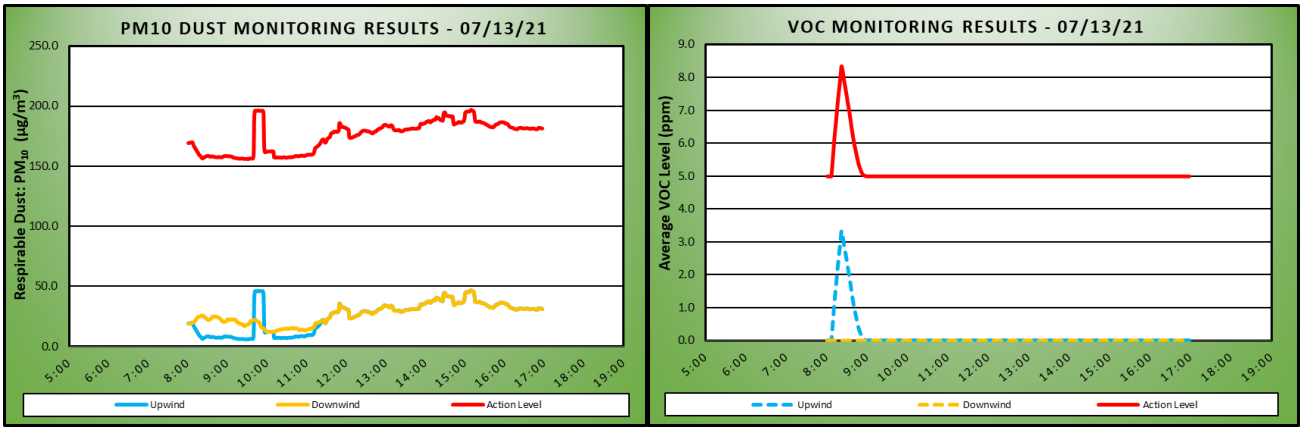
[1] Elevations are based on the North American Vertical Datum of 1988 (NAVD88), which is approximately 1.1 feet above mean sea level datum at Sandy Hook, New Jersey as defined by the United States Geologic Survey (USGS NGVD 1929).
[2] The stockpile consisted of non-native soil excavated from waste characterization grids COMP C (0-5) and COMP J (0-5) North.

Air Monitoring:

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	19.0		Daily Background	0.0	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	24.8	27.3	Daily Time Weighted Average	0.1	0.0
Maximum 15-min Average	46.6	46.6	Maximum 15-min Average	3.3	0.0
Minimum 1-min Instant Reading	3.3	8.5	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	486.0	117.8	Maximum 1-min Instant Reading	4.1	0.0

µg/m³-micrograms per cubic meter. ppm= parts per million.

No particulate or organic vapor exceedances at the downwind Community Air Monitoring Program (CAMP) station were encountered. The daily CAMP monitoring results are also presented in the following charts:



Planned Activities:

- STNY will continue advancing reaction piles.
- STNY will remove portions of fencing along the western site boundary to prepare for installation of support of excavation (SOE) elements.

File Name: 2021-07-13 Daily Field Report_007

SITE PLAN

LEGEND

- **Site Boundary**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Asphalt and Concrete)**
- **Approximate Location of Excavation**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Completed Pile**

File Name: 2021-07-13 Daily Field Report_007

Photo Log

Photo 1: View of STNY advancing a reaction pile north of structural pile 76 within waste characterization grid COMP G (facing northwest).	
Photo 2: View of STNY advancing a reaction pile south of structural pile 76 within waste characterization grid COMP G (facing northwest).	

File Name: 2021-07-13 Daily Field Report_007

Photo 3: View of asphalt surface cover removal within waste characterization grids COMP D and COMP J North (facing northeast).	
Photo 4: View of the soil stockpile located within COMP J North (facing west).	

DAILY FIELD REPORT 008

Prepared By: LANGAN

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Sunny	x
TEMP.	< 32		32-50		50-70		70-85	x	>85	

BCP Project No:	C224304	**Date:**	July 14, 2021
Project Name:	45 Commercial Street	**Time:**	6:45 am to 5:00 pm

Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan)

Construction Manager: Monadnock Construction Inc. (MC)
Foundation Contractor: StructureTech New York, Inc. (STNY)
Soil Broker: Clean Earth LLC (CE)

Langan Field Personnel:
Ali Binder

Work Activities Performed:

- STNY used a drill rig to install a reaction pile immediately south of structural pile #76, to elevation (el.) –38 (about 50 feet below grade surface [bgs]) within waste characterization grid COMP G.
- STNY removed two about 8-foot-long by 8-foot-wide areas of asphalt surface cover in waste characterization grid COMP E in preparation for a load test. The asphalt was combined and stockpiled in waste characterization grid COMP E immediately south of the removal areas.
- STNY excavated an about 10-foot-long by 5-foot-wide area within waste characterization grid COMP D (0-5) to a maximum depth of about 1 foot bgs in preparation for a load test. Excavated material consisted of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination, and was stockpiled in waste characterization grid COMP D immediately west of the excavated area on top of intact asphalt surface cover.
- STNY excavated an about 5-foot-long by 5-foot-wide area within waste characterization grid COMP J North (0-5) to a maximum depth of about 3 inches bgs in preparation for a load test. Excavated material consisted of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination, and was stockpiled in waste characterization grid COMP J North immediately west of the excavated area on top of intact asphalt surface cover.

Material Tracking:

- No material was imported to the site.
- No soil/fill was exported from the site.

Samples Collected:

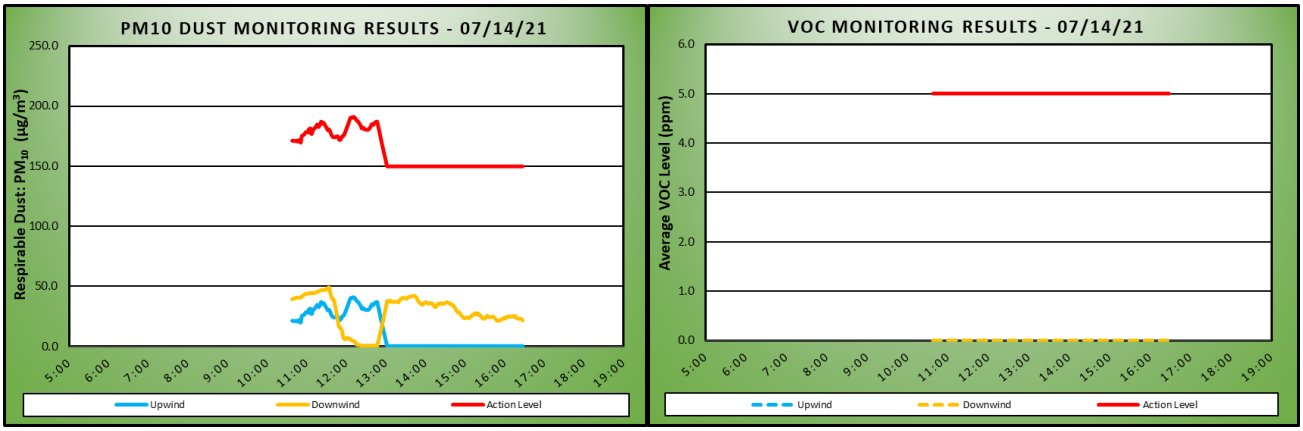
- No samples were collected.

Air Monitoring:

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	21.2		Daily Background	0.0	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	11.9	28.0	Daily Time Weighted Average	0.0	0.0
Maximum 15-min Average	41.0	48.8	Maximum 15-min Average	0.0	0.0
Minimum 1-min Instant Reading	0.0	0.0	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	84.3	55.0	Maximum 1-min Instant Reading	0.0	0.0

µg/m³-micrograms per cubic meter. ppm= parts per million.

Particulate and organic vapor data was not collected from 7:00 am until 10:23 am because of power issues at the site. Power was restored and data was collected for the remainder of the day. No particulate or organic vapor exceedances at the downwind station were encountered. The daily CAMP monitoring results are also presented in the following charts:



Planned Activities:

- STNY will continue advancing reaction piles.
- STNY will remove portions of fencing along the western site boundary to prepare for installation of support of excavation (SOE) elements.

File Name: 2021-07-14 Daily Field Report_008

SITE PLAN

LEGEND

- **Site Boundary**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Asphalt and Concrete)**
- **Approximate Location of Excavation**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Completed Pile**

File Name: 2021-07-14 Daily Field Report_008

Photo Log

Photo 1: View of STNY advancing a reaction pile south of pile #76 in waste characterization grid COMP G (facing southwest).	
Photo 2: View of STNY excavating soil within waste characterization grid COMP D (0-5) in preparation for a load test (facing northwest).	

Photo 3: View of removed asphalt surface cover in waste characterization grid COMP E (facing northwest).	
Photo 4: View of segregated soil and asphalt stockpiles covered with polyethylene sheeting located in COMP J North (facing north).	

DAILY FIELD REPORT 009

Prepared By: LANGAN

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Sunny	x
TEMP.	< 32		32-50		50-70		70-85	x	>85	

BCP Project No:	C224304	**Date:**	July 15, 2021
Project Name:	45 Commercial Street	**Time:**	7:00 am to 4:45 pm

Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan)

Construction Manager: Monadnock Construction Inc. (MC)
Foundation Contractor: StructureTech New York, Inc. (STNY)
Soil Broker: Clean Earth LLC (CE)

Langan Field Personnel:
Ali Binder

Work Activities Performed:

- STNY used a drill rig to install a reaction pile immediately south of structural pile #21, to elevation (el.) –60 (about 73 feet below grade surface [bgs]) within waste characterization grid COMP A.
- STNY excavated an about 46-foot-long by 9-foot-wide trench within waste characterization grids COMP A (0-5) and COMP K (0-5) to a maximum depth of about 2 feet bgs to direct water used to advance reaction piles. The water was then pumped into a container and reused by the drill rig. The asphalt and concrete surface cover, removed as part of the excavation, was stockpiled adjacent to the excavation within waste characterization grid COMP A. Excavated material consisted of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination, and was stockpiled adjacent to the excavation, within waste characterization grid COMP A.
- STNY excavated an about 20-foot-long by 15-foot-wide area within waste characterization grids COMP B (0-5) and COMP D (0-5) to a maximum depth of about 5 feet bgs in preparation for a load test. The asphalt surface cover, removed as part of the excavation, was added into an existing construction and debris (C&D) stockpile located within waste characterization grid COMP B. Excavated soil consisted of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination, and was stockpiled within waste characterization grid COMP B.
- STNY backfilled the about 32-foot-long by 7-foot-wide trench within waste characterization grid COMP G (0-5) from about 2 feet bgs to grade with stockpiled soil that was previously excavated from that location.

Material Tracking:

- No material was imported to the site.
- No soil/fill was exported from the site.

Samples Collected:

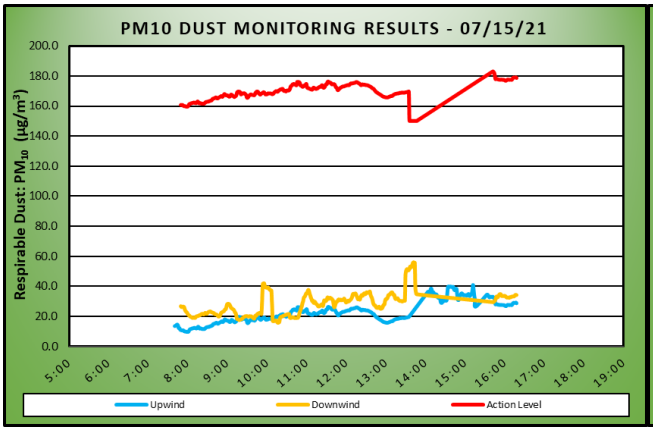
- No samples were collected.

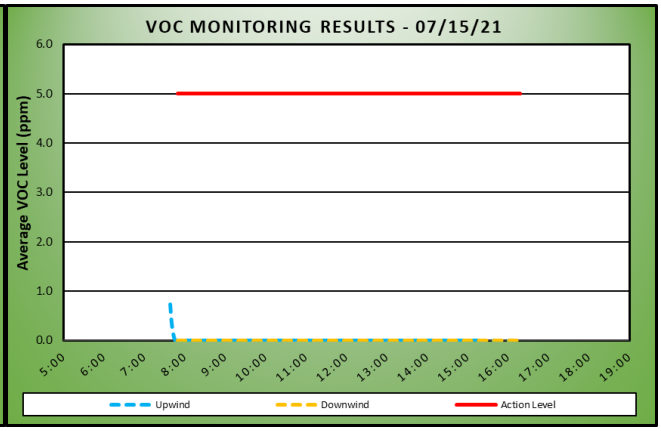
Air Monitoring:

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	13.4		Daily Background	0.7	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	22.6	28.3	Daily Time Weighted Average	0.0	0.0
Maximum 15-min Average	40.9	56.1	Maximum 15-min Average	0.7	0.0
Minimum 1-min Instant Reading	0.0	0.0	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	91.5	293.0	Maximum 1-min Instant Reading	3.2	0.0

µg/m³-micrograms per cubic meter. ppm= parts per million.

Particulate and organic vapor data was not collected from 13:36 to 13:47 at the upwind station and from 13:48 to 15:11 and 15:18 to 15:26 at the downwind station due to system connectivity issues. The issue was resolved and data was collected for the remainder of the day. No particulate or organic vapor exceedances at the downwind station were encountered. The daily Community Air Monitoring Program (CAMP) monitoring results are also presented in the following charts:



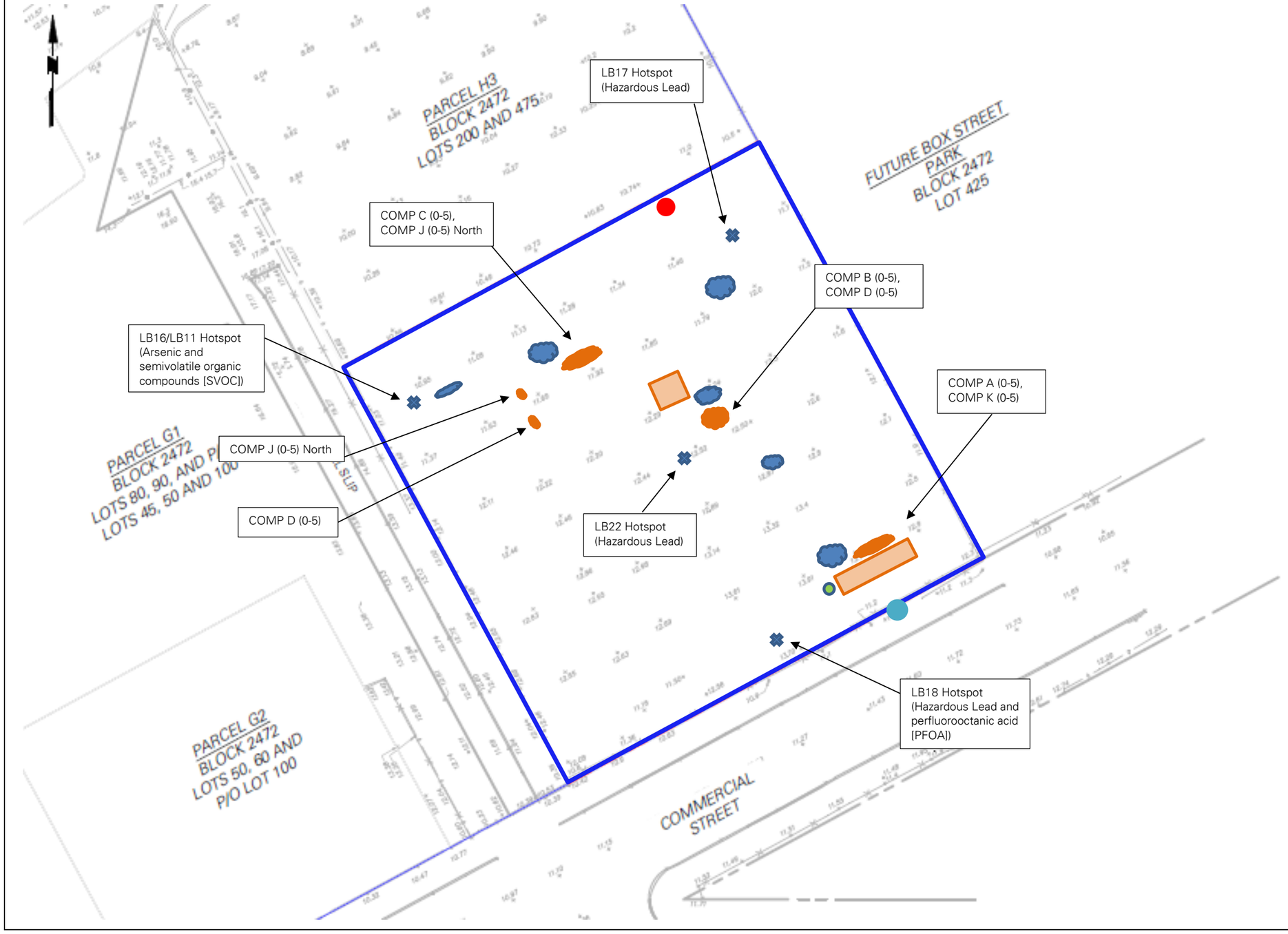


Planned Activities:

- STNY will continue advancing reaction piles.
- STNY will continue limited excavation work around completed reaction piles in preparation for load testing.

File Name: 2021-07-15 Daily Field Report_009

SITE PLAN



LEGEND

- **Site Boundary**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Asphalt and Concrete)**
- **Approximate Location of Excavation**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Completed Pile**

File Name: 2021-07-15 Daily Field Report_009

Photo Log

Photo 1: View of STNY excavating a trench within waste characterization grids COMP A (0-5) and COMP K (0-5) (facing northwest).	
Photo 2: View of STNY advancing a reaction pile south of pile #21 within waste characterization grid COMP A (facing west).	

File Name: 2021-07-15 Daily Field Report_009

Photo 3: View of the backfilled trench within waste characterization grid COMP G (facing south).	
Photo 4: View of excavated area around pile #215 and #216. C&D and soil stockpiles (covered with polyethylene sheeting) can be observed in the background (facing east)	

File Name: 2021-07-15 Daily Field Report_009

DAILY FIELD REPORT 010

Prepared By: LANGAN

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Sunny	x
TEMP.	< 32		32-50		50-70		70-85	x	>85	x

BCP Project No:	C224304	**Date:**	July 16, 2021
Project Name:	45 Commercial Street	**Time:**	6:30 am to 5:00 pm

Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan)

Construction Manager: Monadnock Construction Inc. (MC)
Foundation Contractor: StructureTech New York, Inc. (STNY)
Soil Broker: Clean Earth LLC (CE)

Langan Field Personnel:
Ali Binder
Yaskira Mota Diaz

Work Activities Performed:

- STNY used a drill rig to install a reaction pile immediately north of structural pile #21, to elevation (el.) –60 (about 73 feet below grade surface [bgs]) within waste characterization grid COMP A.
- STNY continued excavation of an about 27-foot-long by 22-foot-wide area within waste chatacterization grids COMP B (0-5), COMP C (0-5), and COMP D (0-5) to a maximum depth of about 5 feet below grade surface (bgs) in preparation for a load test. Excavated material was composed of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination, and added to an exisiting soil stockpile within waste characterization grid COMP B.
- STNY excavated an L-shaped area, consisting of an about 20-foot-long by 3-foot-wide area and an about 12-foot-long by 3-foot-wide area, within waste characterization grid COMP D (0-5), to a maximum depth of about 2 feet bgs in preparation for a load test. Excavated material was composed of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination, and was stockpiled within waste characterization grid COMP D.

Material Tracking:

- No soil/fill was exported from the site.
- No material was imported to the site.

Samples Collected:

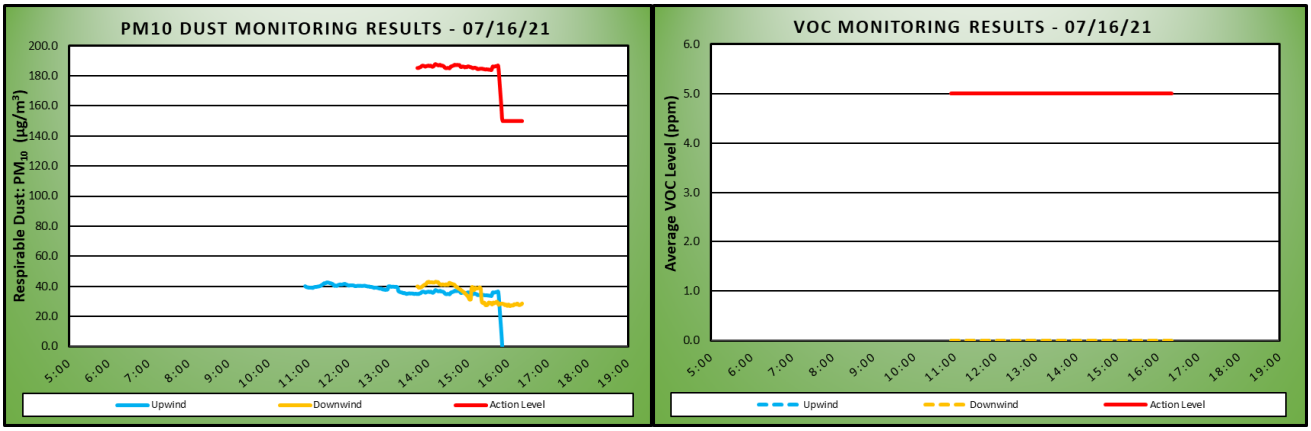
- No samples were collected.

Air Monitoring:

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	40.4		Daily Background	0.0	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	28.5	36.1	Daily Time Weighted Average	0.0	0.0
Maximum 15-min Average	42.8	42.8	Maximum 15-min Average	0.0	0.0
Minimum 1-min Instant Reading	0.0	18.3	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	66.5	147.0	Maximum 1-min Instant Reading	0.0	0.0

µg/m³-micrograms per cubic meter. ppm= parts per million.

Particulate data was not collected from 10:47 to 13:29 at the downwind station due to system connectivity issues. The issue was resolved and data was collected for the remainder of the day. No particulate or organic vapor exceedances at the downwind station were encountered. The daily Community Air Monitoring Program (CAMP) monitoring results are also presented in the following charts:



Planned Activities:

- STNY will continue advancing reaction piles.
- STNY will continue limited excavation work around completed reaction piles in preparation for load testing.

File Name: 2021-07-16 Daily Field Report_010

SITE PLAN

LEGEND

- **Site Boundary**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Asphalt and Concrete)**
- **Approximate Location of Excavation**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Completed Pile**

File Name: 2021-07-16 Daily Field Report_010

Photo Log

Photo 1: View of STNY advancing a reaction pile within waste characterization grid COMP A (facing south)	
Photo 2: View of the excavated area around pile #215 and #216 within waste characterization grids COMP B (0-5), COMP C (0-5), and COMP D (0-5) (facing northeast)	

File Name: 2021-07-16 Daily Field Report_010

Photo 3: View of excavated L-shaped area around pile #255 within waste characterization grid COMP D (0-5) (facing southeast)	
Photo 4: View of excavated area around pile #255 within waste characterization grid COMP D (0-5). Soil stockpile (covered with polyethylene sheeting) can be observed in the foreground (facing north)	

File Name: 2021-07-16 Daily Field Report_010