DAILY FIELD REPORT 092

Prepared By: LANGAN

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

BCP Project No:	C224304	**Date:**	November 15, 2021
Project Name:	45 Commercial Street	**Time:**	6:30 am to 3:45 am

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, Inc. (CE)

Langan Field Personnel:
Yaskira Mota

Work Activities Performed:

- STNY excavated the following areas of the site. Excavated material consisted of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination.
    - An about 8-foot-long by 5-foot-wide area from about 2 feet below grade surface (bgs) (from original site grade) to about 5 feet bgs in waste characterization grid COMP H (0-5) for plumbing utility piping installation. Excavated material was added to an existing soil stockpile[1] in waste characterization grid COMP H.
    - An about 11-foot-long by 9-foot-wide area from about 4 feet bgs to about 6 foot bgs (from original site grade) on the boundary of waste characterization grids COMP H, COMP G, and COMP J South for pile cap formwork installation. Excavated material was stockpiled in waste characterization grid COMP J South.
- STNY regraded/flattened an about 30-foot-long by 15-foot-wide area to prepare the surface for sub-membrane depressurization (SMD) system installation in waste characterization grid COMP H. Excess material consisted of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination and was added to an existing soil stockpile[2] in waste characterization grid COMP H.
- STNY loaded trucks with a soil stockpile[3] in waste characterization grid COMP H for off-site disposal to the Clean Earth of Bethlehem (CEPA) facility located in Bethlehem, Pennsylvania.
- STNY backfilled an about 10-foot-long by 3-foot-wide area in waste characterization grid COMP G from about 5 feet bgs (from original site grade) to about 1 foot bgs with New York State Department of Environmental Conservation (NYSDEC)-approved 0.75-inch virgin stone from Tilcon - Mt. Hope Quarry to fill in a previous excavation.
- STNY installed SMD system components in accordance with the design documents.
    - Non-woven, geotextile fabric (Mirafi 140N) was placed over an about 30-foot-long by 20-foot-wide area and an about 10-foot-long by 5-foot-wide area in waste characterization grid COMP H, to isolate the SMD system from subgrade fines.
    - A minimum 8-inch-thick layer of 0.75-inch virgin stone was placed in the above-referenced areas above the geotextile fabric for the gas permeable aggregate layer
    - About 20 feet of 4-inch diameter perforated polyvinyl chloride (PVC) piping, wrapped with a polyester filter sleeve, was placed in waste characterization grid COMP H within the gas permeable aggregate layer for the SMD system.

[1] COMP H (0-5) and COMP G (0-5)
[2] COMP H (0-5) and COMP G (0-5)
[3] COMP H (0-5) and COMP G (0-5)

- STNY installed vapor barrier membrane (Stego® Wrap 20 Mil) in an about 30-foot-long by 20-foot-wide area in waste characterization grid COMP H, above the gas permeable aggregate layer. Vapor barrier seams were set with at least 6-inches of overlap and sealed with Stego® Tape. Vapor barrier installation documentation is to verify general conformance with specifications and contract documents. Any rips, tears, or holes observed during the installation were sealed with Stego® Tape.

Material Tracking:

- The following soil/fill was exported from the site:
    - Two loads of non-native soil was transported to the CEPA facility located in Bethlehem, Pennsylvania.
- The following materials were imported to the site:
    - Four loads of 0.75-inch virgin stone from Tilcon – Mt. Hope Quarry located in Wharton Borough, New Jersey.

Samples Collected:

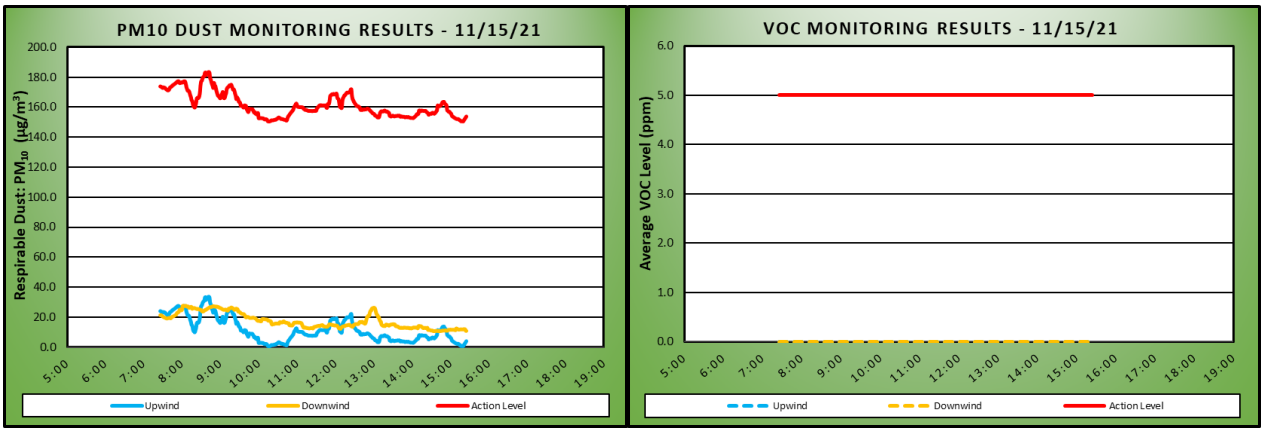
- No samples were collected.

Air Monitoring

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	23.9		Daily background	0.0	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	11.6	17.4	Daily Time Weighted Average	0.0	0.0
Maximum 15-min Average	33.4	27.6	Maximum 15-min Average	0.0	0.0
Minimum 1-min Instant Reading	0.0	8.5	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	85.8	53.3	Maximum 1-min Instant Reading	0.0	0.0

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

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:

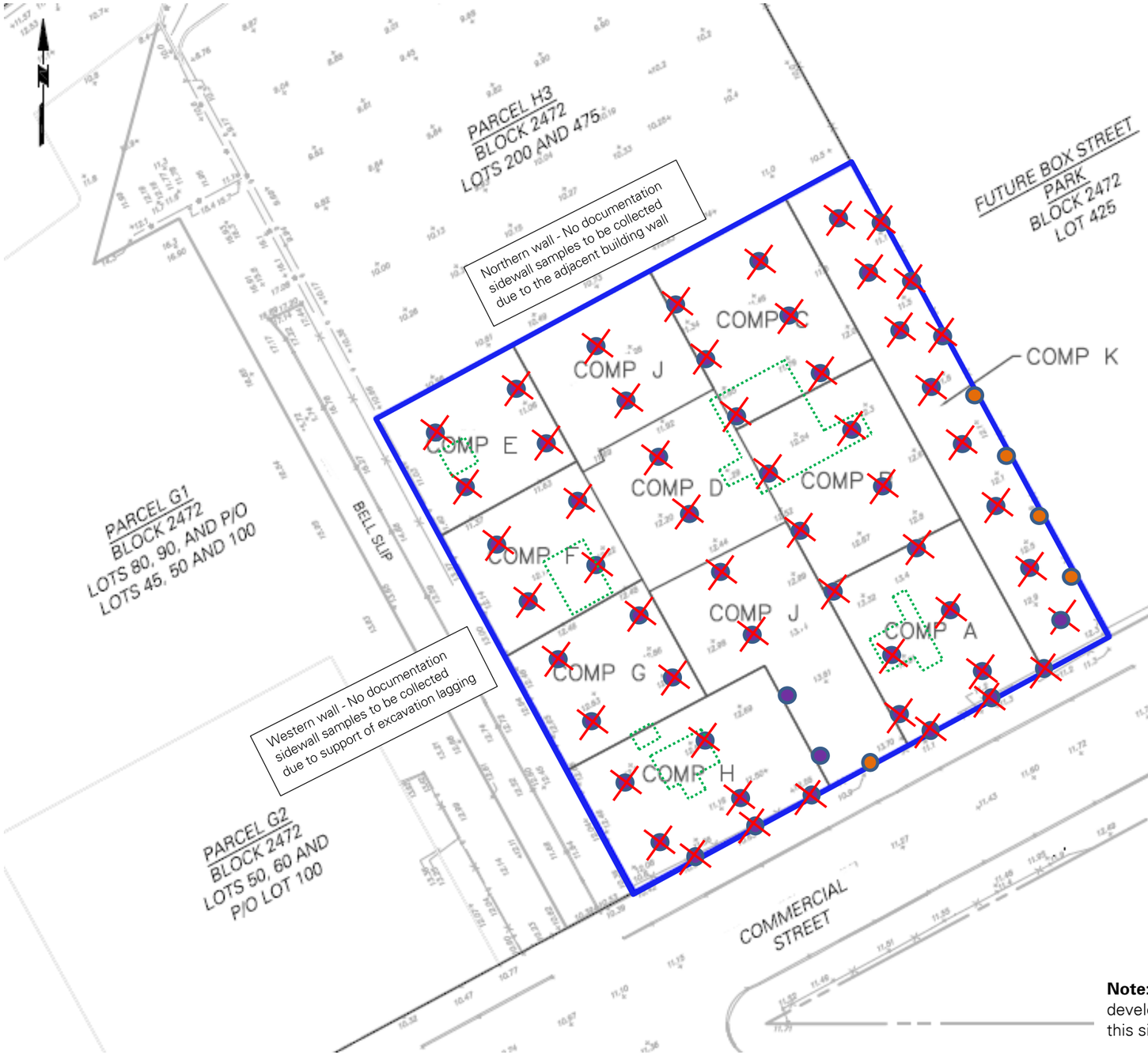
- STNY will continue mass excavating for the remedy and utilities and will continue exporting soil for off-site disposal.
- STNY will continue installing SMD system components and the vapor barrier.
- STNY will continue pouring concrete for the foundation slab.

SITE PLAN

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

- **Site Boundary**
- **Waste Characterization Grid COMP I (5-10)**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Concrete)**
- **Stockpile – Imported Material**
- **Approximate Location of Excavation**
- **Approximate Area of Backfilling**
- **Approximate Area of Regrading**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Concrete Pouring**
- **Approximate Area of Installed Demarcation Layer**

DOCUMENTATION SAMPLE PLAN



Site Boundary

Waste Characterization Grid
COMP I (5-10)

Proposed Base Documentation Sample Location

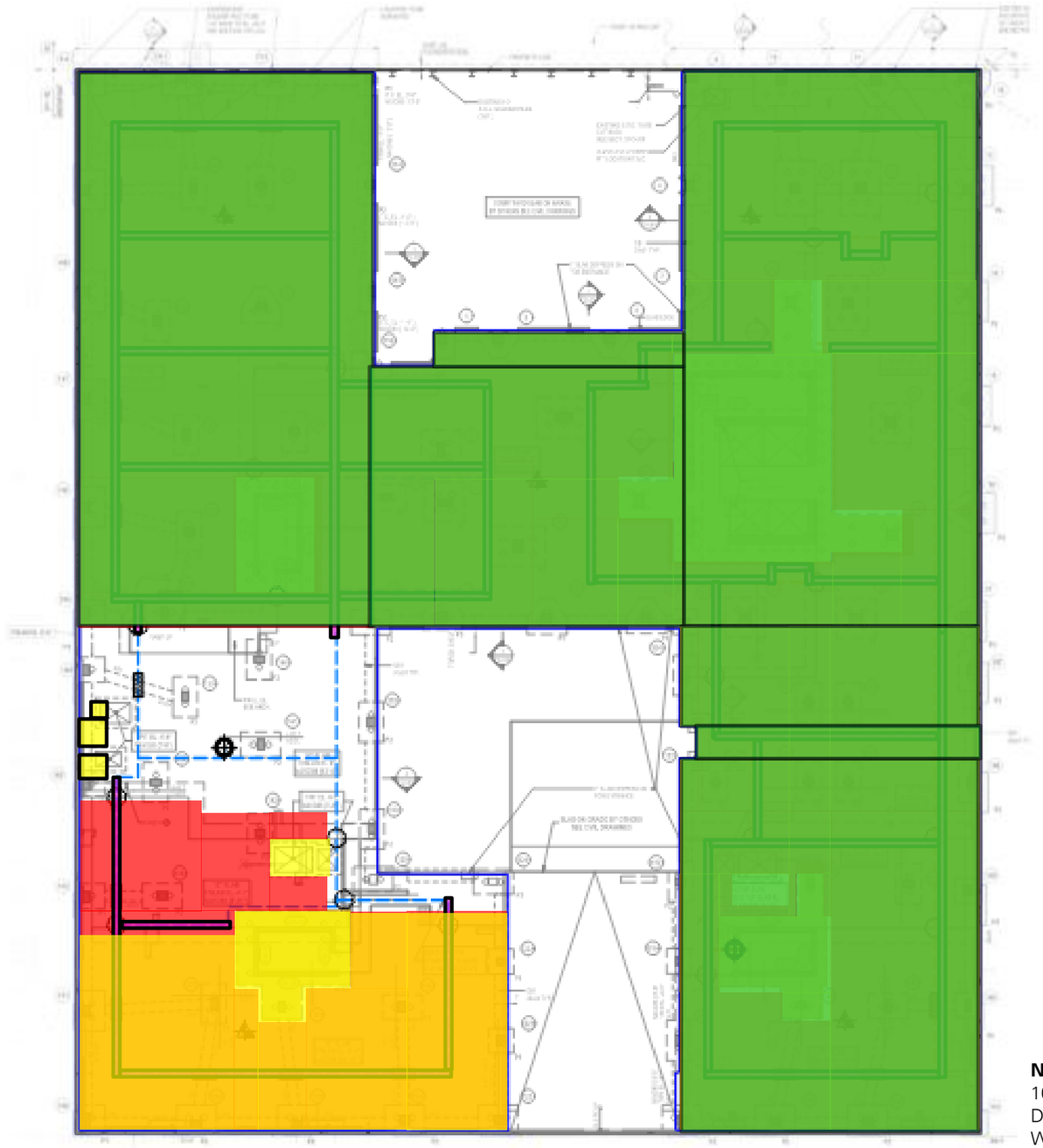
Proposed Base Documentation Sample Location

Documentation Sample Collected Today

Previously Collected Documentation Sample

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

WATERPROOFING/VAPOR BARRIER AND SMD INSTALLATION MAP



Note: Base Map Source: Drawing FO-100.00, Foundation (1st Floor) Plan, Dated December 20, 2019, Prepared by WSP USA.

- **Site Boundary**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower A**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower B**
- **SMD System Installation In Progress (Geotextile/Aggregate)**
- **SMD System Installation In Progress (SMD Piping)**
- **SMD System Installation In Progress (Waterproofing/Vapor Barrier)**
- **Concrete Foundation Slab Poured**

Photo Log

Photo 1: General view of the site (facing south).	
Photo 2: View of STNY loading a truck with soil for off-site disposal to the CEPA facility (facing north).	

Photo 3: View of STNY regrading/flattening an area in waste characterization grid COMP H in preparation for installation of SMD system components (facing northwest).	
Photo 4: View of STNY excavating in waste characterization area COMP H for pile cap formwork installation (facing northeast).	

DAILY FIELD REPORT 093

Prepared By: LANGAN

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

BCP Project No:	C224304	**Date:**	November 16, 2021
Project Name:	45 Commercial Street	**Time:**	6:45 am to 3:45 am

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, Inc. (CE)

Langan Field Personnel:
Yaskira Mota

Work Activities Performed:

- STNY excavated the following areas of the site. Excavated material consisted of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination.
    - An about 6-foot-long by 4-foot-wide area from about 2 feet below grade surface (bgs) (from original site grade) to about 5 feet bgs in waste characterization grid COMP H (0-5) to bring the area to design elevation. Excavated material was added to Soil Stockpile 3 in waste characterization grid COMP J South.
    - An about 10-foot-long by 10-foot-wide area from about 4 feet bgs (from original site grade) to about 9 foot bgs in waste characterization grid COMP G for pile cap formwork installation. Soil from the 4 to 6 foot interval was added to Soil Stockpile 2 and soil from the 6 to 9 foot interval was added to Soil Stockpile 3.
- STNY installed sub-membrane depressurization (SMD) system components in accordance with the design documents.
    - About 30 feet of 4-inch diameter perforated polyvinyl chloride (PVC) piping, wrapped with a polyester filter sleeve, was placed in waste characterization grids COMP H and COMP G within the gas permeable aggregate layer for the SMD system.
- STNY installed vapor barrier membrane (Stego® Wrap 20 Mil) in an about 45-foot-long by 25-foot-wide area in waste characterization grids COMP H and COMP G, above the gas permeable aggregate layer. Vapor barrier seams were set with at least 6-inches of overlap and sealed with Stego® Tape. Vapor barrier installation documentation is to verify general conformance with specifications and contract documents. Any rips, tears, or holes observed during the installation were sealed with Stego® Tape.

Material Tracking:

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

Samples Collected:

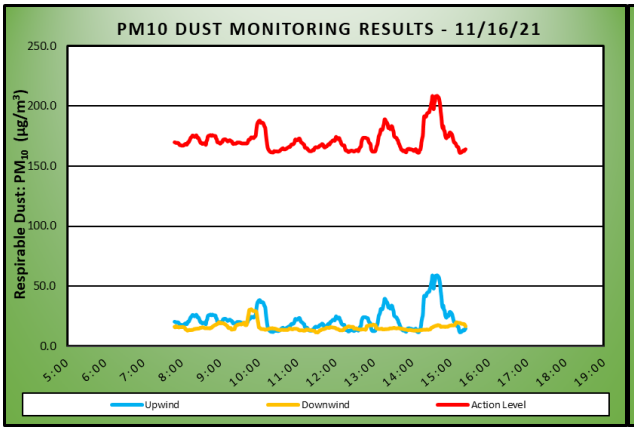
- Clean Earth, Inc. collected one sample set, consisting of one composite sample and one grab sample from Soil Stockpile 3 for waste characterization purposes. The soil samples were submitted to Eurofins TestAmerica Laboratories, Inc. for laboratory analysis of extractable petroleum hydrocarbons (EPH), volatile organic compounds (VOC), semivolatile organic compounds (SVOC), Resource Conservation and Recovery Act (RCRA) 8 metals including beryllium, nickel, copper, and zinc, RCRA 8 toxicity characteristic leaching procedure (TCLP) metals including beryllium, nickel, copper, and zinc, RCRA characteristics (corrosivity, ignitability, and reactivity), polychlorinated biphenyls (PCB), TCLP VOCs, TCLP SVOCs, TCLP Herbicides and TCLP Pesticides.
    - Pile 7 Comp
    - Pile 7 Grab

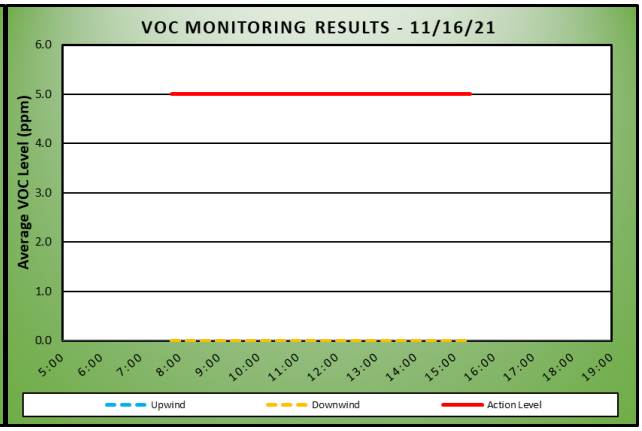
Air Monitoring

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	20.2		Daily background	0.0	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	21.8	15.6	Daily Time Weighted Average	0.0	0.0
Maximum 15-min Average	59.0	31.0	Maximum 15-min Average	0.0	0.0
Minimum 1-min Instant Reading	6.0	9.0	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	152.3	69.3	Maximum 1-min Instant Reading	0.0	0.0

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

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 mass excavating for the remedy and utilities and will continue exporting soil for off-site disposal.
- STNY will continue installing SMD system components and the vapor barrier.
- STNY will continue pouring concrete for the foundation slab.

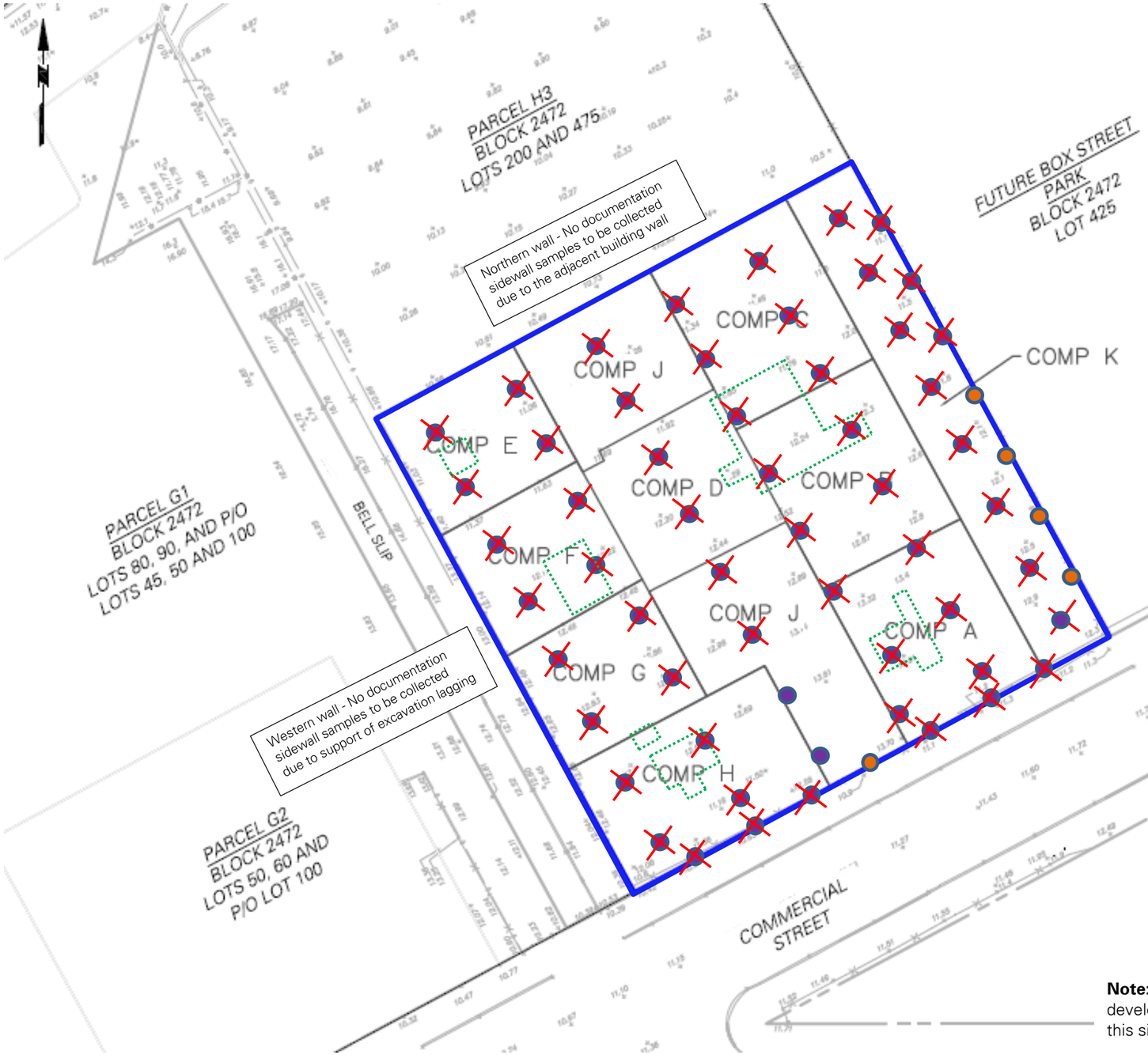
File Name: 2021-11-16 Daily Field Report_093

SITE PLAN

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

- **Site Boundary**
- **Waste Characterization Grid COMP I (5-10)**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Concrete)**
- **Stockpile – Imported Material**
- **Approximate Location of Excavation**
- **Approximate Area of Backfilling**
- **Approximate Area of Regrading**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Concrete Pouring**
- **Approximate Area of Installed Demarcation Layer**

DOCUMENTATION SAMPLE PLAN



Site Boundary

Waste Characterization Grid COMP I (5-10)

Proposed Base Documentation Sample Location

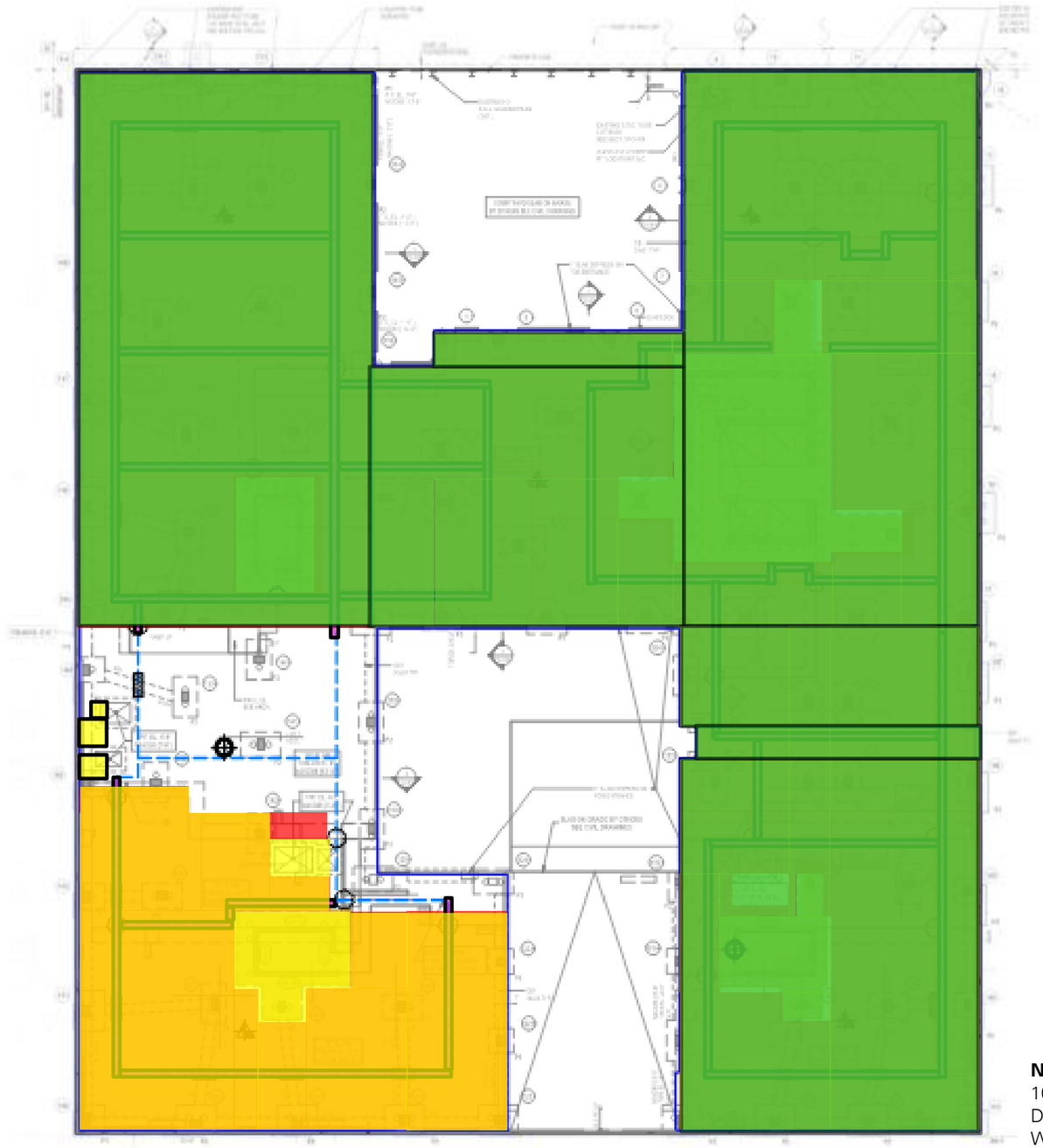
Proposed Base Documentation Sample Location

Documentation Sample Collected Today

Previously Collected Documentation Sample

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

WATERPROOFING/VAPOR BARRIER AND SMD INSTALLATION MAP



Note: Base Map Source: Drawing FO-100.00, Foundation (1st Floor) Plan, Dated December 20, 2019, Prepared by WSP USA.

- **Site Boundary**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower A**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower B**
- **SMD System Installation In Progress (Geotextile/Aggregate)**
- **SMD System Installation In Progress (SMD Piping)**
- **SMD System Installation In Progress (Waterproofing/Vapor Barrier)**
- **Concrete Foundation Slab Poured**

Photo Log

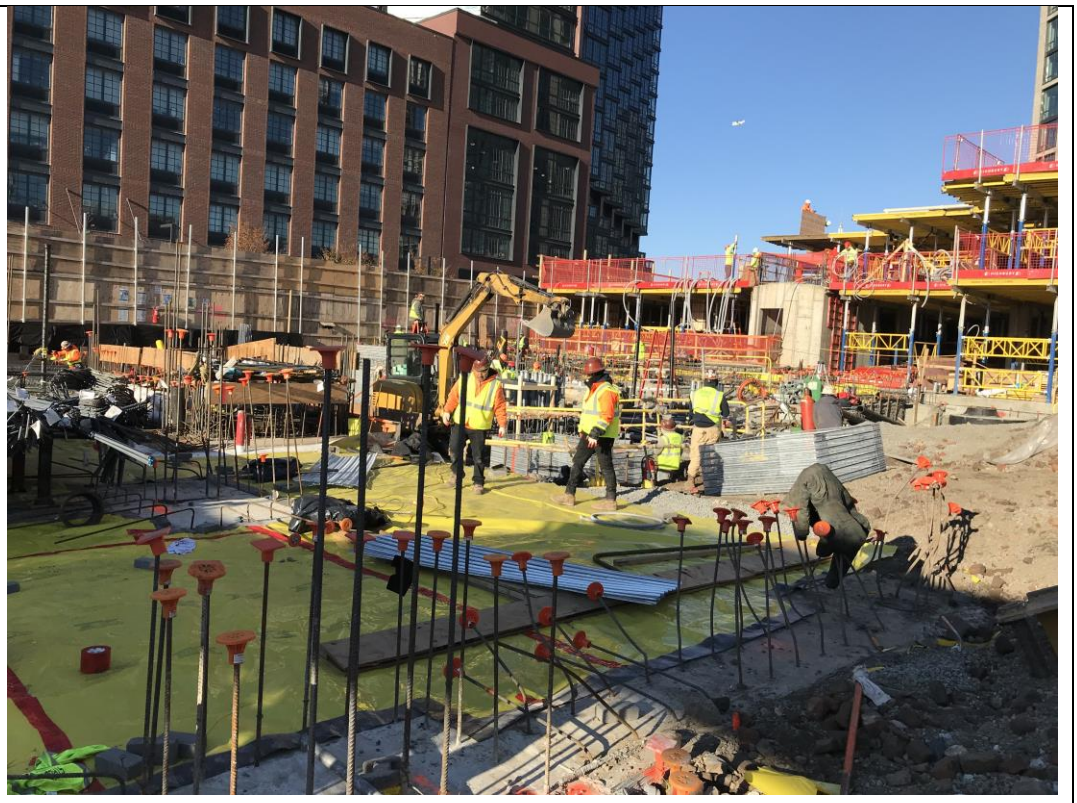
Photo 1: General view of the site at the start of the day (facing northwest).	
Photo 2: View of STNY installing vapor barrier in waste characterization grids COMP H and COMP G (facing northwest).	

Photo 3: View of STNY excavating for pile cap framework installation in waste characterization grid COMP G (facing northwest).	
Photo 4: View of Clean Earth, Inc. sampling Soil Stockpile 3 for waste characterization purposes (facing northwest).	

DAILY FIELD REPORT 094

Prepared By: LANGAN

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

BCP Project No:	C224304	**Date:**	November 17, 2021
Project Name:	45 Commercial Street	**Time:**	6:45 am to 5:45 am

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, Inc. (CE)

Langan Field Personnel:
Yaskira Mota

Work Activities Performed:

- STNY excavated the following areas of the site. Excavated material consisted of non-native soil, did not exhibit signs of chemical- or petroleum-like contamination.
    - An about 9-foot-long by 8-foot-wide area from about 1 feet below grade surface (bgs) (from original site grade) to about 7 feet bgs in waste characterization grid COMP H for pile cap formwork installation. Excavated material was added to Soil Stockpile 2.
    - An about 10-foot-long by 10-foot-wide area from about 4 feet bgs (from original site grade) to about 7 foot bgs in waste characterization grid COMP H for grade beam formwork installation. Excavated material was added to Soil Stockpile 2.
    - An about 9-foot-long by 6-foot-wide area from about 1 feet bgs to about 3 foot bgs (from original site grade) in waste characterization grid COMP H for grade beam formwork installation. Excavated material was stockpiled in waste characterization grid COMP J South.
- STNY backfilled the following areas of the site with New York State Department of Environmental Conservation (NYSDEC)-approved 0.75-inch virgin stone from Tilcon - Mt. Hope Quarry to fill in previous excavations.
    - An about 55-foot-long by 30-foot-wide area in waste characterization grid COMP G, from 4 feet bgs (from original site grade) to about 1 feet bgs to raise the site grade to sub-membrane depressurization (SMD) system installation depth.
    - An about 30-foot-long by 12-foot-wide area in waste characterization grid COMP G , from a maximum depth of 6 feet bgs (from original site grade) to 4 feet bgs to raise the site grade to sub-membrane depressurization (SMD) system installation depth..
- STNY loaded a truck with a portion of Soil Stockpile 2 in waste characterization grid COMP J South for off-site disposal to the Clean Earth of Carteret (CEC) facility located in Carteret, New Jersey.
- STNY installed SMD system components in accordance with the design documents.
    - Non-woven, geotextile fabric (Mirafi 140N) was placed over an about 55-foot-long by 30-foot-wide area and an about 30-foot-long by 12-foot-wide area in waste characterization grid COMP G, to isolate the SMD system from subgrade fines.
    - A minimum 8-inch-thick layer of 0.75-inch virgin stone was placed in the above-referenced areas above the geotextile fabric for the gas permeable aggregate layer.
    - About 120 feet of 4-inch diameter perforated polyvinyl chloride (PVC) piping, wrapped with a polyester filter sleeve, was placed in waste characterization grids COMP H and COMP G within the gas permeable aggregate layer for the SMD system.

Material Tracking:

- The following soil/fill was exported from the site:
    - One load of non-native soil was transported to the CEC facility located in Carteret, NJ
- The following materials were imported to the site:
    - Ten loads of 0.75-inch virgin stone from Tilcon – Mt. Hope Quarry located in Wharton Borough, NJ.

Samples Collected:

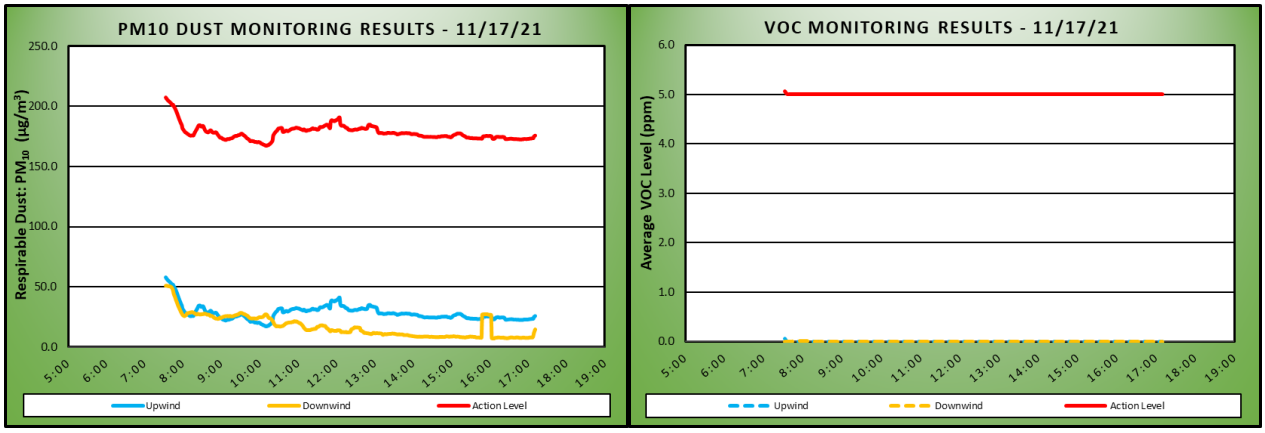
- No samples were collected.

Air Monitoring

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	54.4		Daily background	0.0	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	28.6	17.3	Daily Time Weighted Average	0.0	0.0
Maximum 15-min Average	57.8	51.1	Maximum 15-min Average	0.1	0.0
Minimum 1-min Instant Reading	14	5.8	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	109.0	297.3	Maximum 1-min Instant Reading	0.3	0.0

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

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:

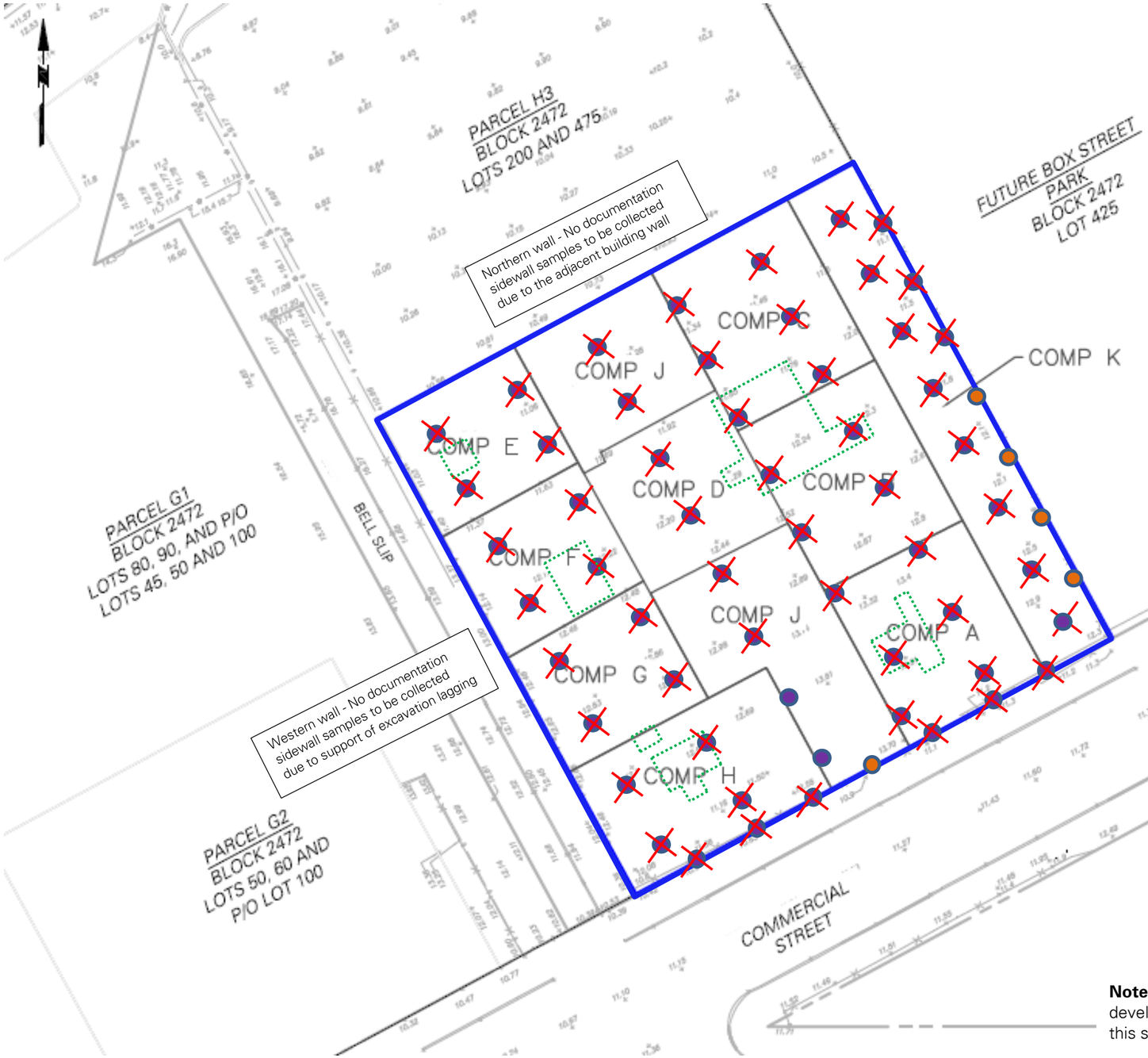
- STNY will continue mass excavating for the remedy and utilities and will continue exporting soil for off-site disposal.
- STNY will continue installing SMD system components and the vapor barrier.
- STNY will continue pouring concrete for the foundation slab.

SITE PLAN

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

- **Site Boundary**
- **Waste Characterization Grid COMP I (5-10)**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Concrete)**
- **Stockpile – Imported Material**
- **Approximate Location of Excavation**
- **Approximate Area of Backfilling**
- **Approximate Area of Regrading**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Concrete Pouring**
- **Approximate Area of Installed Demarcation Layer**

DOCUMENTATION SAMPLE PLAN



Site Boundary

Waste Characterization Grid
COMP I (5-10)

Proposed Base Documentation Sample Location

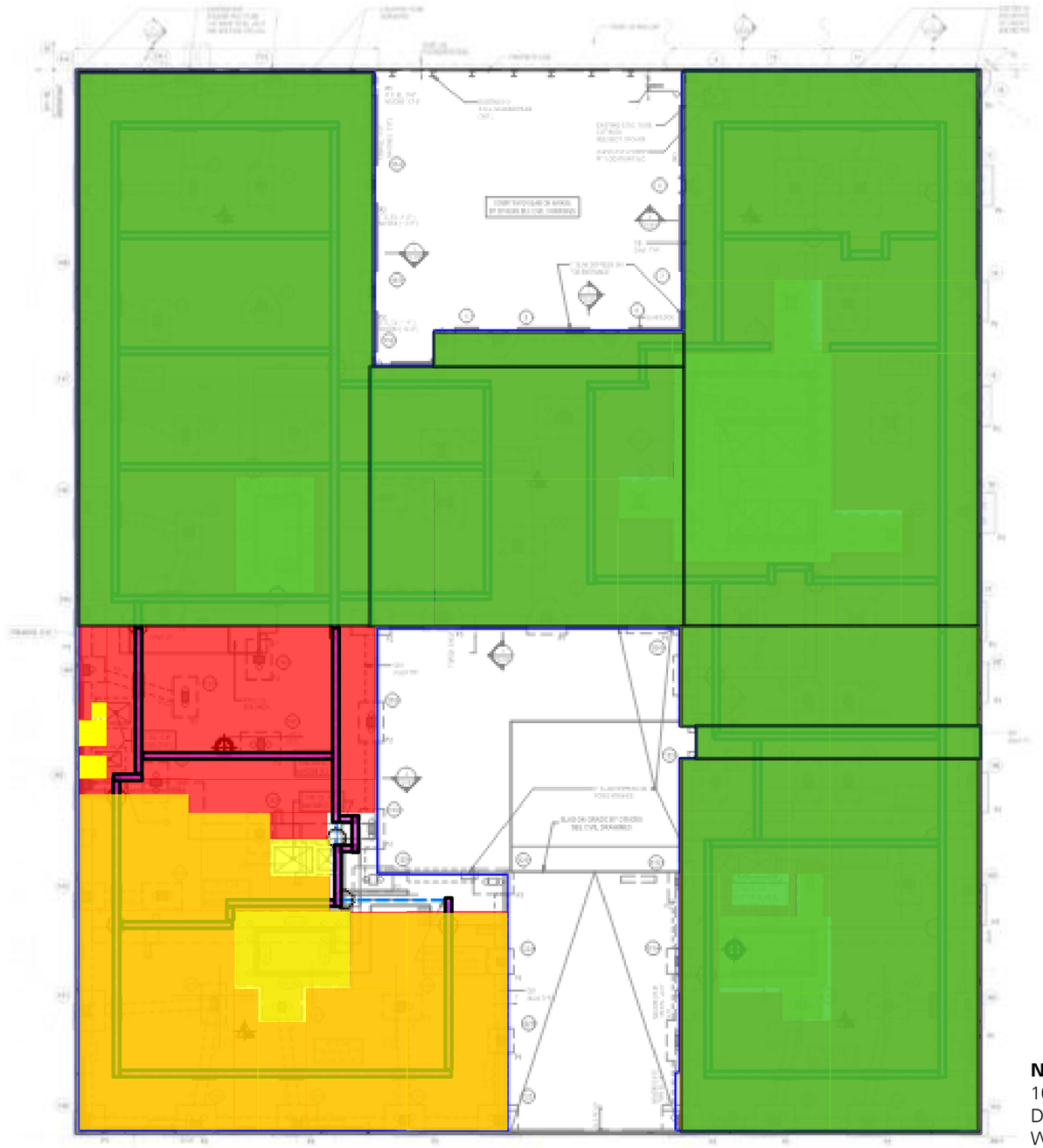
Proposed Base Documentation Sample Location

Documentation Sample Collected Today

Previously Collected Documentation Sample

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

WATERPROOFING/VAPOR BARRIER AND SMD INSTALLATION MAP

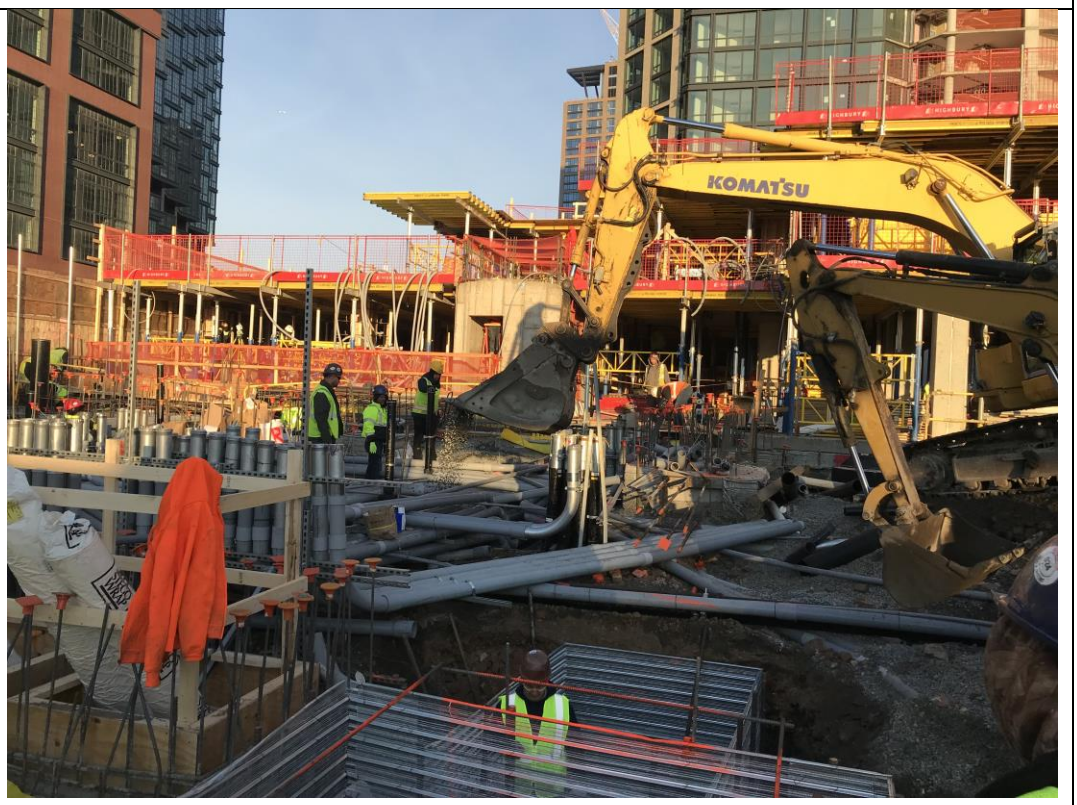


Note: Base Map Source: Drawing FO-100.00, Foundation (1st Floor) Plan, Dated December 20, 2019, Prepared by WSP USA.

- **Site Boundary**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower A**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower B**
- **SMD System Installation In Progress (Geotextile/Aggregate)**
- **SMD System Installation In Progress (SMD Piping)**
- **SMD System Installation In Progress (Waterproofing/Vapor Barrier)**
- **Concrete Foundation Slab Poured**

Photo Log

Photo 1: General view of the site (facing southwest)	
Photo 2: View of STNY installing SMD system components in waste characterization grid COMP G (facing west).	

Photo 3: View of STNY excavating for pile cap framework installation in waste characterization grid COMP H (facing north).	
Photo 4: View of STNY backfilling with imported 0.75-inch stone in waste characterization grid COMP G (facing north).	

File Name: 2021-11-17 Daily Field Report_094

DAILY FIELD REPORT 095

Prepared By: LANGAN

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

BCP Project No:	C224304	**Date:**	November 18, 2021
Project Name:	45 Commercial Street	**Time:**	6:45 am to 5:30 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, Inc. (CE)

Langan Field Personnel:
Yaskira Mota

Work Activities Performed:

- STNY backfilled the following areas of the site around pile caps and grade beams with New York State Department of Environmental Conservation (NYSDEC)-approved 0.75-inch virgin stone from Tilcon - Mt. Hope Quarry to bring previously excavated areas to design grade.
    - An about 50-foot-long by 2-foot-wide trench in waste characterization grids COMP H and COMP G, from a maximum depth of 7 feet below grade surface (bgs) (from original site grade) to about 2 feet bgs.
    - An about 22-foot-long by 2-foot-wide L-shaped trench in waste characterization grid COMP G, from a maximum depth of 4 feet bgs (from original site grade) to about 2 feet bgs.
    - An about 9-foot-long by 2-foot-wide trench in waste characterization grid COMP H, from a maximum depth of 3 feet bgs (from original site grade) to about 2 feet bgs.
- STNY installed sub-membrane depressurization (SMD) system components in accordance with the design documents.
    - Non-woven, geotextile fabric (Mirafi 140N) was placed over an about 15-foot-long by 8-foot-wide area and an about 26-foot-long by 6-foot-wide area in waste characterization grids COMP G, and COMP H, to isolate the SMD system from subgrade fines.
    - A minimum 8-inch-thick layer of 0.75-inch virgin stone was placed in the above-referenced areas above the geotextile fabric for the gas permeable aggregate layer.
    - About 25 feet of 4-inch diameter perforated polyvinyl chloride (PVC) piping, wrapped with a polyester filter sleeve, was placed in waste characterization grids COMP H and COMP G within the gas permeable aggregate layer for the SMD system.
- STNY installed vapor barrier membrane (Stego® Wrap 20 Mil) in an about 55-foot-long by 30-foot-wide area, an about 30-foot-long by 12-foot-wide area, an 15-foot-long by 8-foot-wide area, and an about 25-foot-long by 6-foot-wide area in waste characterization grids COMP G and COMP H above the gas permeable aggregate layer. Vapor barrier seams were set with at least 6-inches of overlap and sealed with Stego® Tape. Vapor barrier installation documentation is to verify general conformance with specifications and contract documents. Any rips, tears, or holes observed during the installation were sealed with Stego® Tape.
- STNY poured concrete for pile caps and grade beams in waste characterization grids COMP G and COMP H.

Material Tracking:

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

Samples Collected:

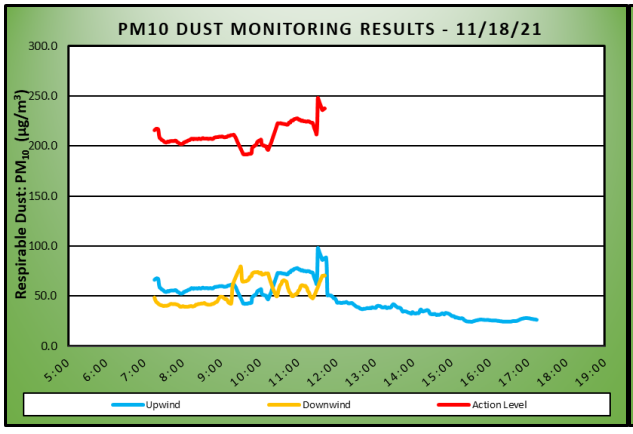
- Langan collected four sidewall documentation samples in waste characterization grid COMP K. The documentation soil samples were submitted to Alpha Analytical Laboratories, Inc. for analysis of Part 375 volatile organic compounds (VOC), Part 375 semivolatile organic compounds (SVOC) including 1,4-dioxane, polychlorinated biphenyls (PCB), pesticides/herbicides, target analyte list (TAL) metals including hexavalent and trivalent chromium, and per- and polyfluoroalkyl substances (PFAS).
    - EPSW11
    - EPSW10
    - EPSW09
    - EPSW08

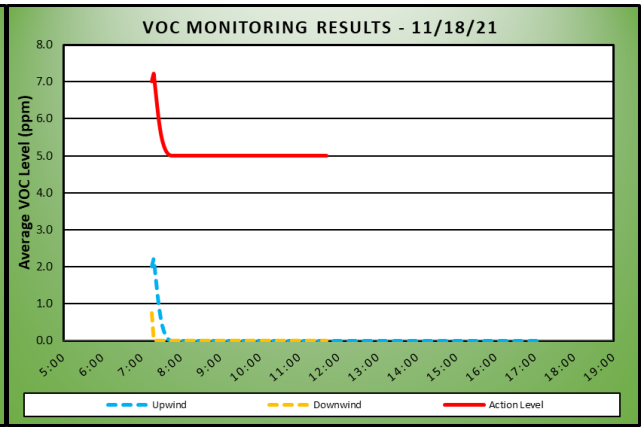
Air Monitoring

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	50.1		Daily background	0.1	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	45.8	54.5	Daily Time Weighted Average	0.1	0.1
Maximum 15-min Average	98.0	80.0	Maximum 15-min Average	2.2	0.7
Minimum 1-min Instant Reading	22.5	37.8	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	471.5	216.8	Maximum 1-min Instant Reading	3.4	4.1

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

Data was not collected at the downwind station after 11:42 due to a connectivity issue. The equipment manufacturer was contacted and the equipment was scheduled for repairs on the following work 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:

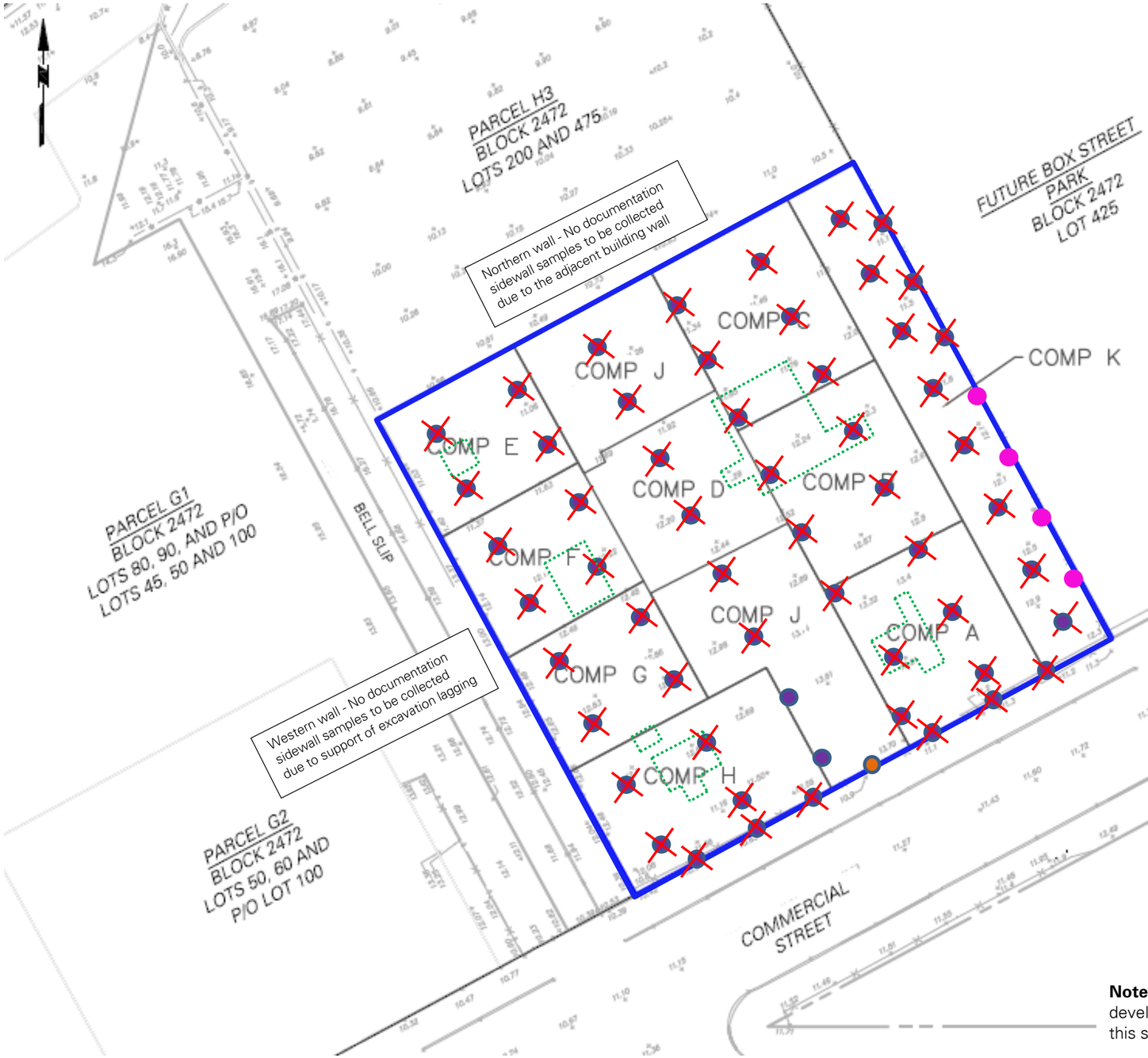
- STNY will continue mass excavating for the remedy and utilities and will continue exporting soil for off-site disposal.
- STNY will continue installing SMD system components and the vapor barrier.
- STNY will continue pouring concrete for the foundation slab.

SITE PLAN

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

- **Site Boundary**
- **Waste Characterization Grid COMP I (5-10)**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Concrete)**
- **Stockpile – Imported Material**
- **Approximate Location of Excavation**
- **Approximate Area of Backfilling**
- **Approximate Area of Regrading**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Concrete Pouring**
- **Approximate Area of Installed Demarcation Layer**

DOCUMENTATION SAMPLE PLAN



Site Boundary

Waste Characterization Grid COMP I (5-10)

Proposed Base Documentation Sample Location

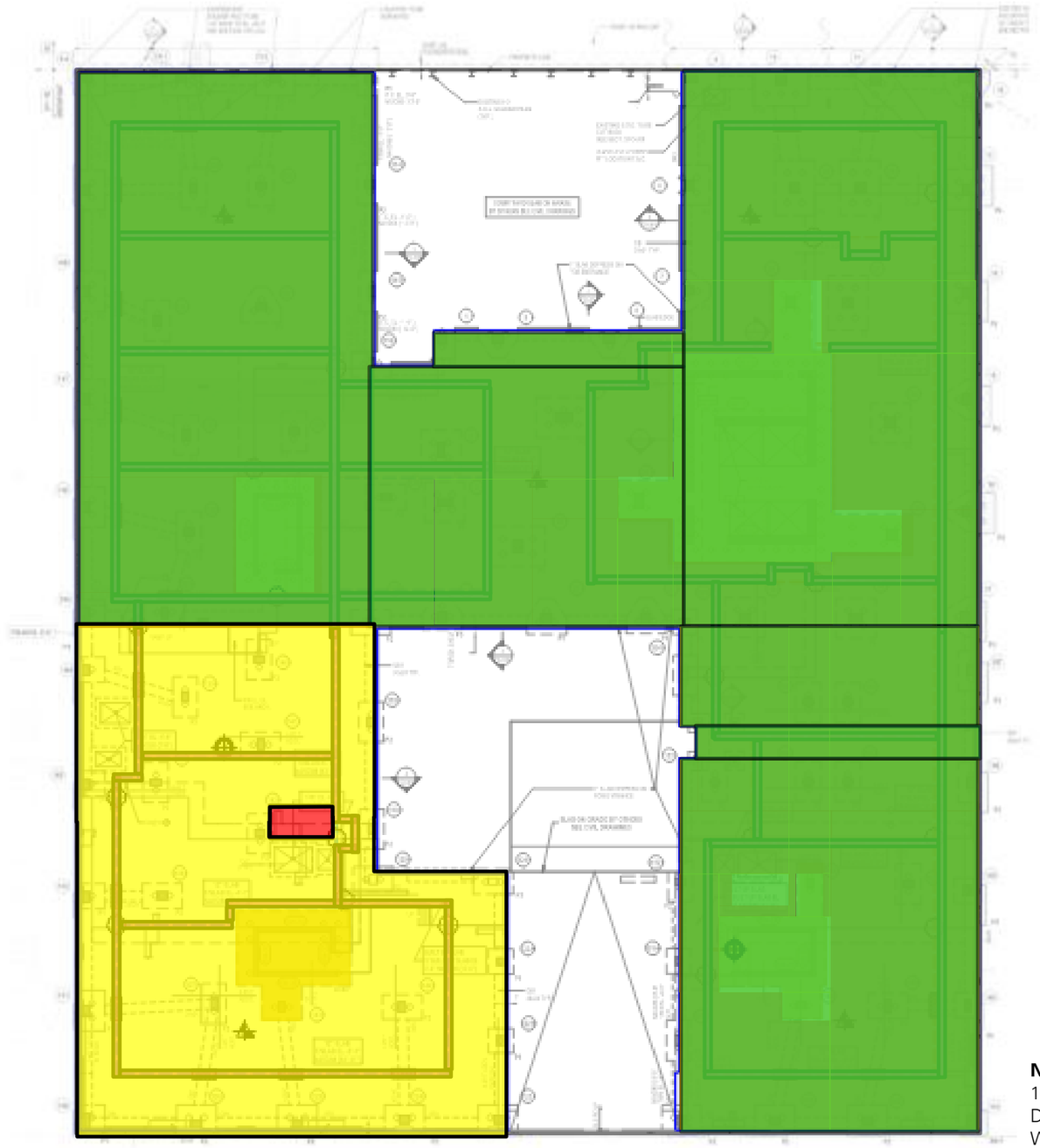
Proposed Base Documentation Sample Location

Documentation Sample Collected Today

Previously Collected Documentation Sample

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

WATERPROOFING/VAPOR BARRIER AND SMD INSTALLATION MAP



Note: Base Map Source: Drawing FO-100.00, Foundation (1st Floor) Plan, Dated December 20, 2019, Prepared by WSP USA.

- **Site Boundary**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower A**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower B**
- **SMD System Installation In Progress (Geotextile/Aggregate)**
- **SMD System Installation In Progress (SMD Piping)**
- **SMD System Installation In Progress (Waterproofing/Vapor Barrier)**
- **Concrete Foundation Slab Poured**

Photo Log

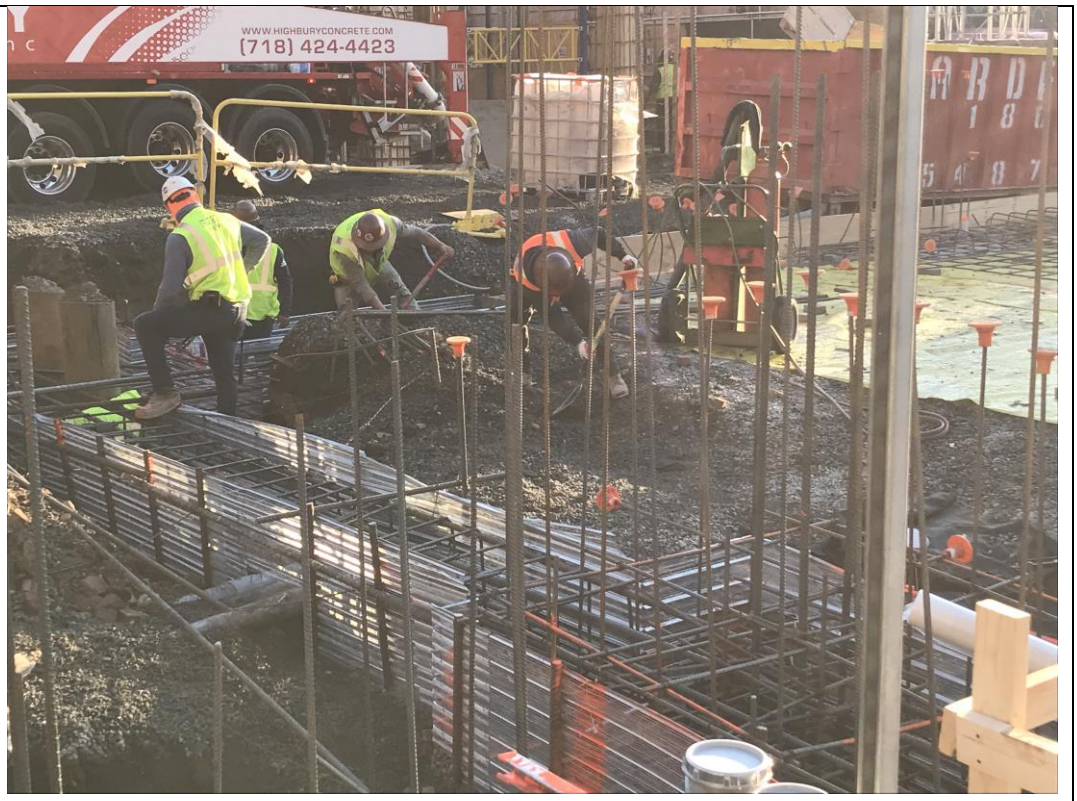
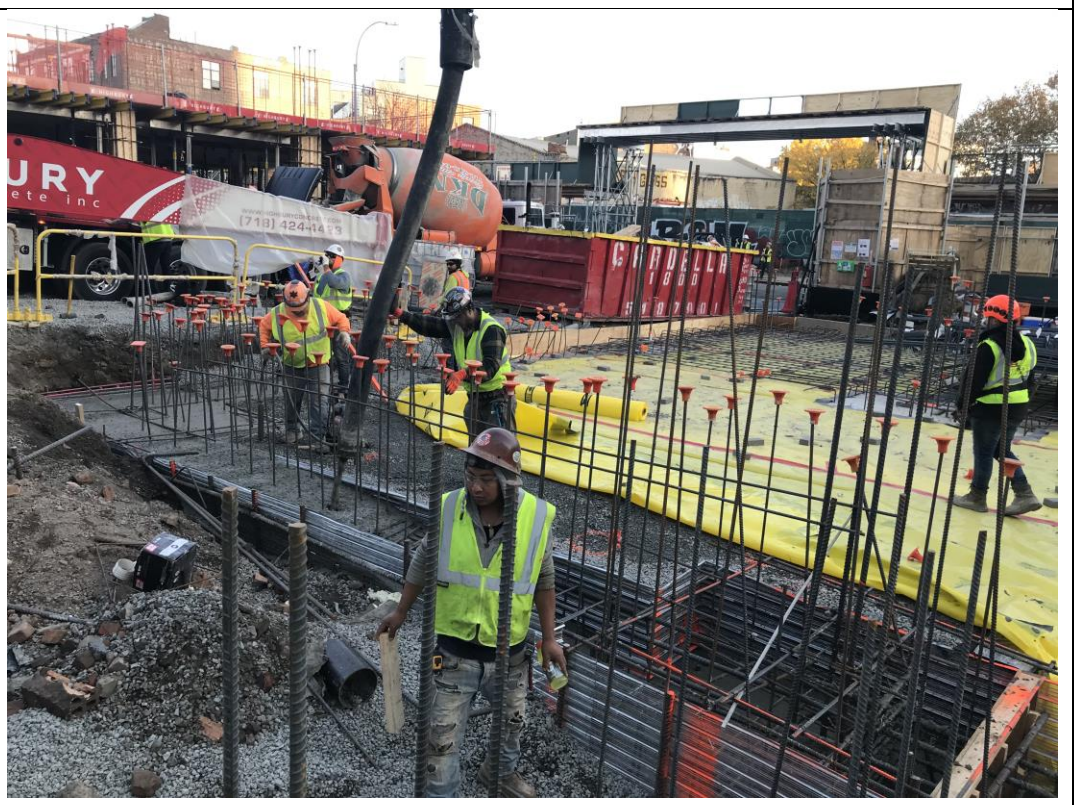
Photo 1: View of STNY installing pile cap and grade beam formwork in waste characterization grid COMP H (facing southeast).	
Photo 2: View of STNY pouring concrete into pile cap and grade beam formwork in waste characterization grid COMP H (facing southeast).	

Photo 3: View of STNY installing the vapor barrier membrane in waste characterization grid COMP G (facing east).	
Photo 4: View of STNY installing 4-inch diameter perforated PVC piping for the SMD system in waste characterization grid COMP H (facing north).	

DAILY FIELD REPORT 096

Prepared By: LANGAN

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

BCP Project No:	C224304	**Date:**	November 19, 2021
Project Name:	45 Commercial Street	**Time:**	7:00 am to 2:30 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, Inc. (CE)

Langan Field Personnel:
TJ Malgieri

Work Activities Performed:

- STNY backfilled the following areas of the site with New York State Department of Environmental Conservation (NYSDEC)-approved 0.75-inch virgin stone from Tilcon - Mt. Hope Quarry to bring previously excavated areas to design grade.
    - An about 10-foot-long by 2-foot-wide area in waste characterization grid COMP J, from a maximum depth of 2 feet below grade surface (bgs) (from original site grade) to about current surface grade.
    - An about 20-foot-long by 30-foot-wide area in waste characterization grid COMP J South, from a maximum depth of 2 feet bgs (from original site grade) to about current surface grade
- STNY installed vapor barrier membrane (Stego® Wrap 20 Mil) in an about 17-foot-long by 15-foot-wide area in waste characterization grid COMP G above the gas permeable aggregate layer. Vapor barrier seams were set with at least 6-inches of overlap and sealed with Stego® Tape. Vapor barrier installation documentation is to verify general conformance with specifications and contract documents. Any rips, tears, or holes observed during the installation were sealed with Stego® Tape.
- STNY loaded 3 trucks with soil[1] stockpiled in waste characterization grid COMP J South for off-site disposal to the Clean Earth of Bethlehem facility located in Bethlehem, Pennsylvania.
- STNY loaded a truck with soil[3] stockpiled in waste characterization grid COMP J South for off-site disposal to the Clean Earth of Carteret (CEC) facility located in Carteret, New Jersey.

Material Tracking:

- The following soil/fill was exported from the site:
    - Three loads of non-native soil was transported to the Clean Earth of Bethlehem facility located in Bethlehem, Pennsylvania.
    - One load of non-native soil was transported to the CEC facility located in Carteret, NJ
- No material was imported to the site.

Samples Collected:

- None

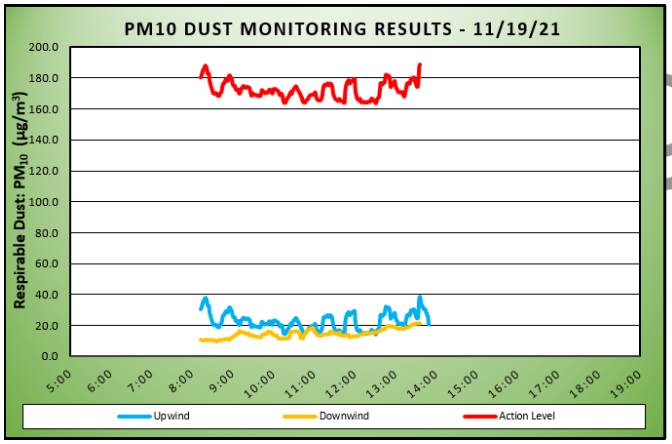
[1] COMP A (0-5), COMP B (0-5), COMP G (0-5), COMP H (0-5), COMP I (5-10)
[3] COMP H (4-7), COMP G (4-6), COMP J South (4-6)

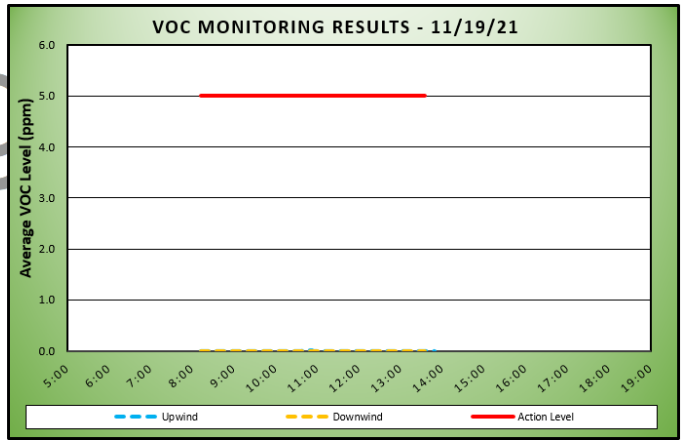
Air Monitoring

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	22.7		Daily background	0.0	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	22.7	15.4	Daily Time Weighted Average	0.0	0.0
Maximum 15-min Average	38.8	21.6	Maximum 15-min Average	0.0	0.0
Minimum 1-min Instant Reading	5.8	7.3	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	281.8	281.8	Maximum 1-min Instant Reading	0.1	0.0

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

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 mass excavating for the remedy and utilities and will continue exporting soil for off-site disposal.
- STNY will continue installing SMD system components and the vapor barrier.

File Name: 2021-11-04 Daily Field Report_085

SITE PLAN

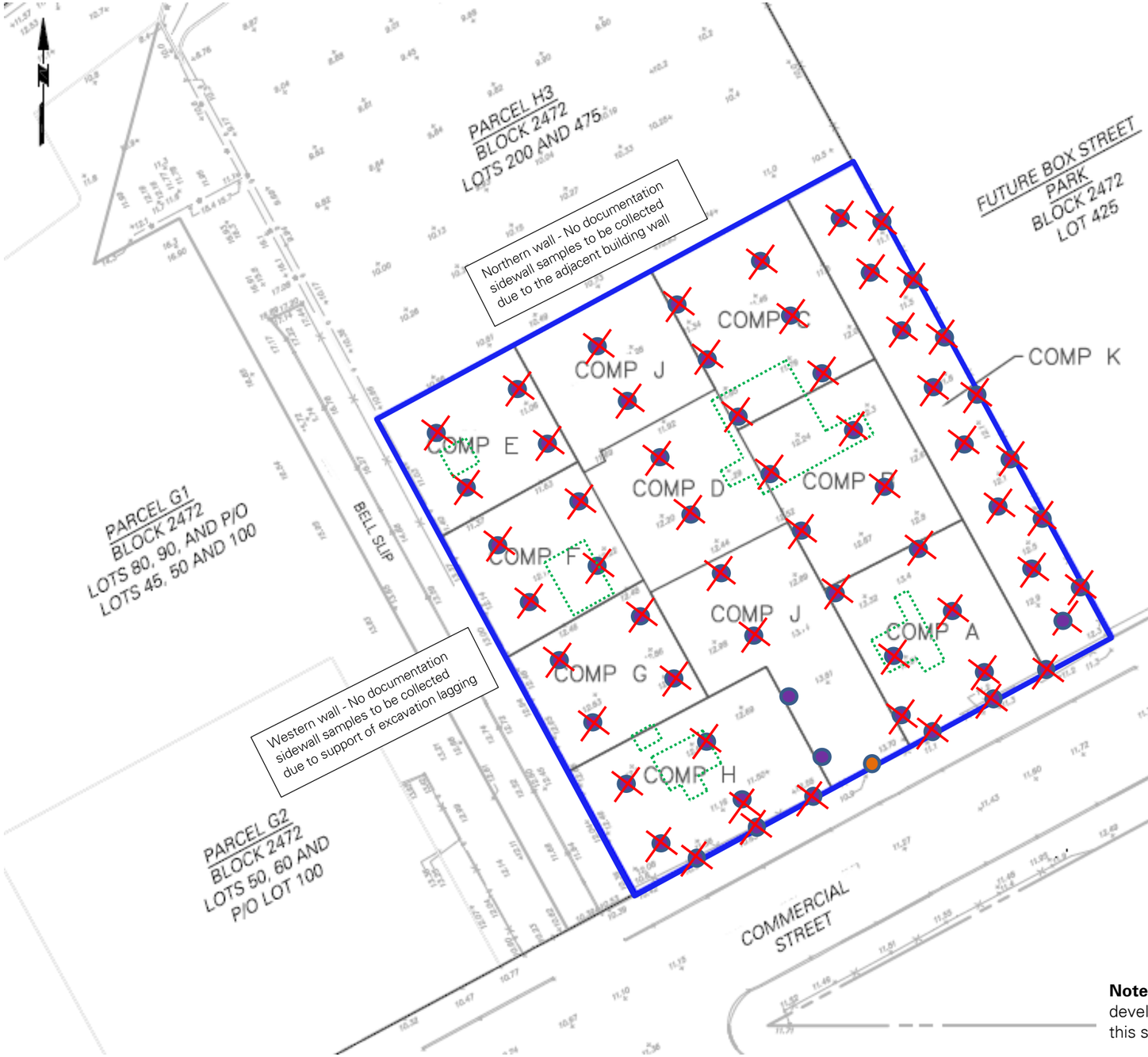
Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

A

- **Site Boundary**
- **Waste Characterization Grid COMP I (5-10)**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Concrete)**
- **Stockpile – Imported Material**
- **Approximate Location of Excavation**
- **Approximate Area of Backfilling**
- **Approximate Area of Regrading**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Concrete Pouring**
- **Approximate Area of Installed Demarcation Layer**
- **Approximate Location of Hotspot Endpoint Sample**

File Name: 2021-11-19 Daily Field Report_096

DOCUMENTATION SAMPLE PLAN



Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

- **Site Boundary**
- **Waste Characterization Grid COMP I (5-10)**
- **Proposed Base Documentation Sample Location**
- **Proposed Base Documentation Sample Location**
- **Documentation Sample Collected Today**
- **Previously Collected Documentation Sample**

WATERPROOFING/VAPOR BARRIER AND SMD INSTALLATION MAP

Note: Base Map Source: Drawing FO-100.00, Foundation (1st Floor) Plan, Dated December 20, 2019, Prepared by WSP USA.

- **Site Boundary**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower A**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower B**
- **Approximate Location of Deep Foundation Elements (No Depressurization)**
- **SMD System Installation In Progress (Geotextile/Aggregate)**
- **SMD System Installation In Progress (SMD Piping)**
- **SMD System Installation In Progress (Waterproofing/Vapor Barrier)**
- **Concrete Foundation Slab Poured**

Photo Log

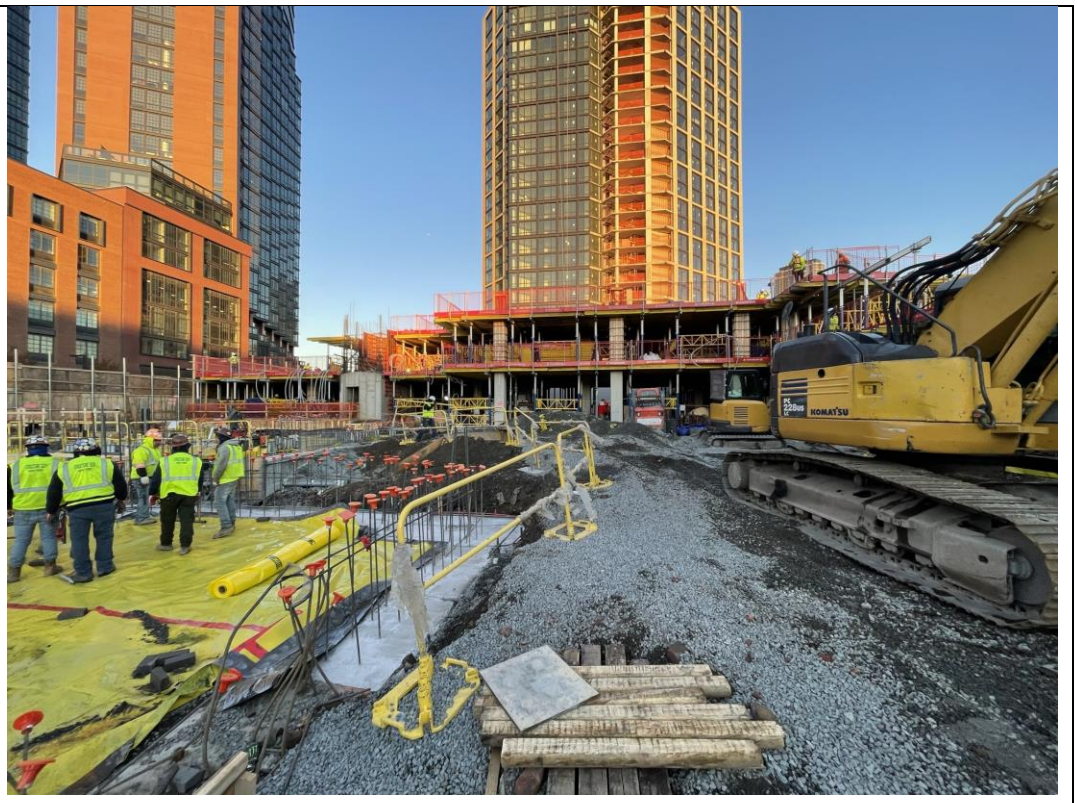
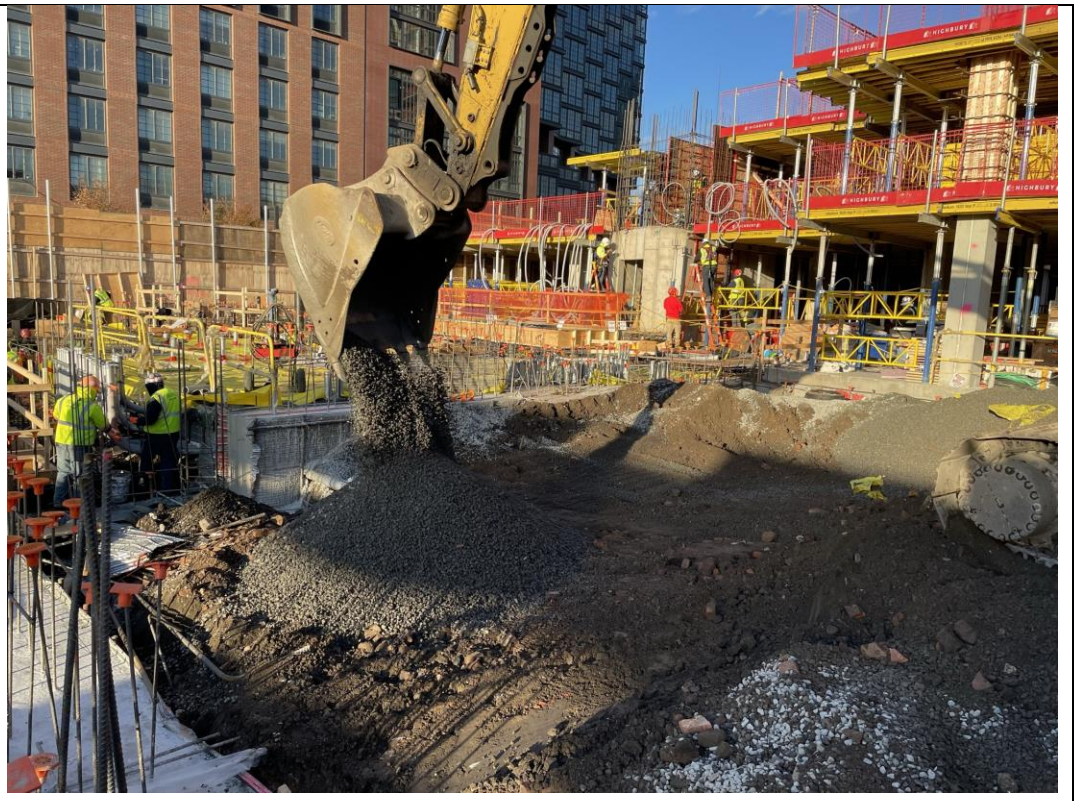
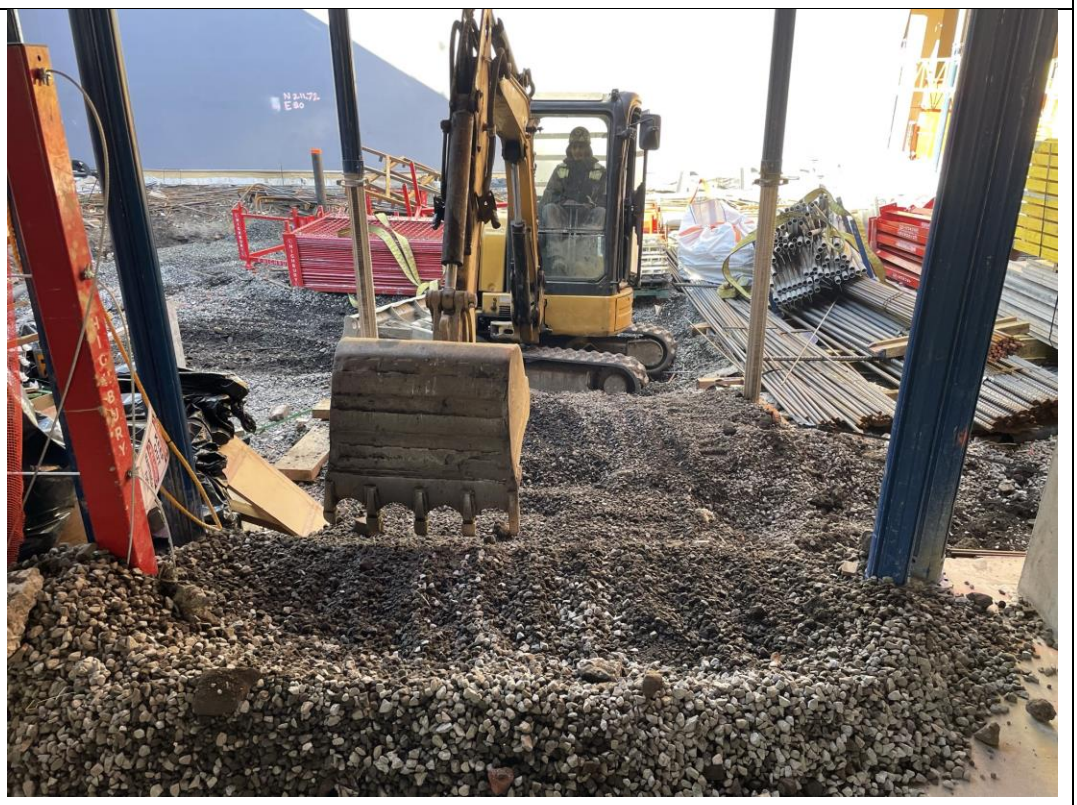
Photo 1: General view of site in the beginning of the day (facing north).	
Photo 2: View of STNY loading non-native soil into a permitted tri-axle truck for off-site disposal (facing northwest).	

Photo 3: View of STNY using previously imported ¾" virgin stone to backfill a previously excavated area within COMP J South (facing northwest).	
Photo 4: View of STNY using previously imported ¾" virgin stone to backfill a previously excavated area within COMP J North (facing north).	

DAILY FIELD REPORT 097

Prepared By: LANGAN

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

BCP Project No:	C224304	**Date:**	November 20, 2021
Project Name:	45 Commercial Street	**Time:**	6:45 am to 2:30 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, Inc. (CE)

Langan Field Personnel:
Yaskira Mota

Work Activities Performed:

- STNY excavated an about 22-foot-long by 21-foot-wide area to a maximum depth of 6 foot below grade surface (bgs) in preparation to install a hoist bed in waste characterization grid COMP J South. Excavated material consisted of imported 0.75-inch stone or non-native soil that did not exhibit signs of chemical- or petroleum-like contamination, which were placed in separate layers and kept segregated during excavation. The soil was stockpiled in waste characterization grid COMP J South in preparation for off-site disposal. The 0.75-inch stone was used to backfill excavation described below.
    - STNY backfilled an about 42-foot-long by 4-foot-wide trench around the perimeter of the excavation described above in waste characterization grid COMP J South from about a maximum depth of 6 feet bgs (from original site grade) to 4 feet bgs with the previously imported 0.75-inch stone to secure hoist bed formwork.

Material Tracking:

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

Samples Collected:

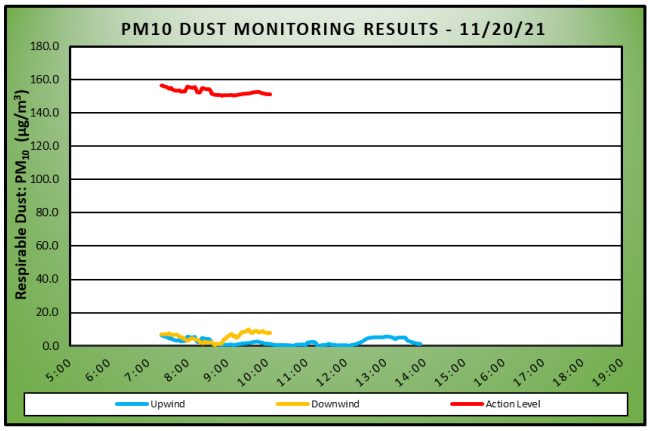
- No samples were collected from site.

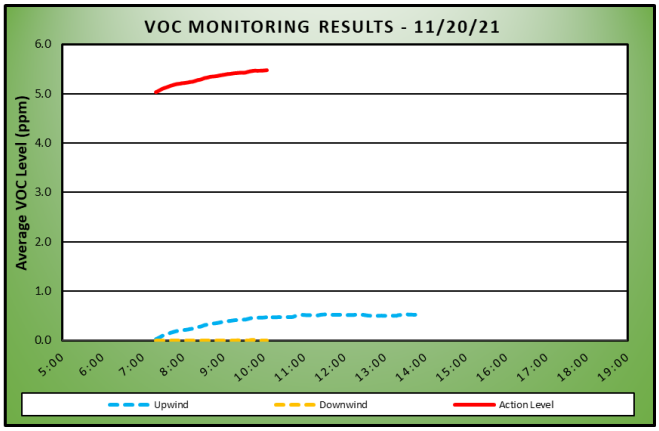
Air Monitoring

Particulate Monitoring (µg/m³)			Organic Vapor Monitoring (ppm)		
Daily background	6.7		Daily background	0.0	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	2.6	5.6	Daily Time Weighted Average	0.4	0.0
Maximum 15-min Average	6.5	10	Maximum 15-min Average	0.5	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	21.0	18.5	Maximum 1-min Instant Reading	0.6	0.5

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

No data was recorded from the downwind station after 10:18 am due to connectivity problems. 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 mass excavating for the remedy and utilities and will continue exporting soil for off-site disposal.
- STNY will continue installing SMD system components and the vapor barrier.

File Name: 2021-11-20 Daily Field Report_097

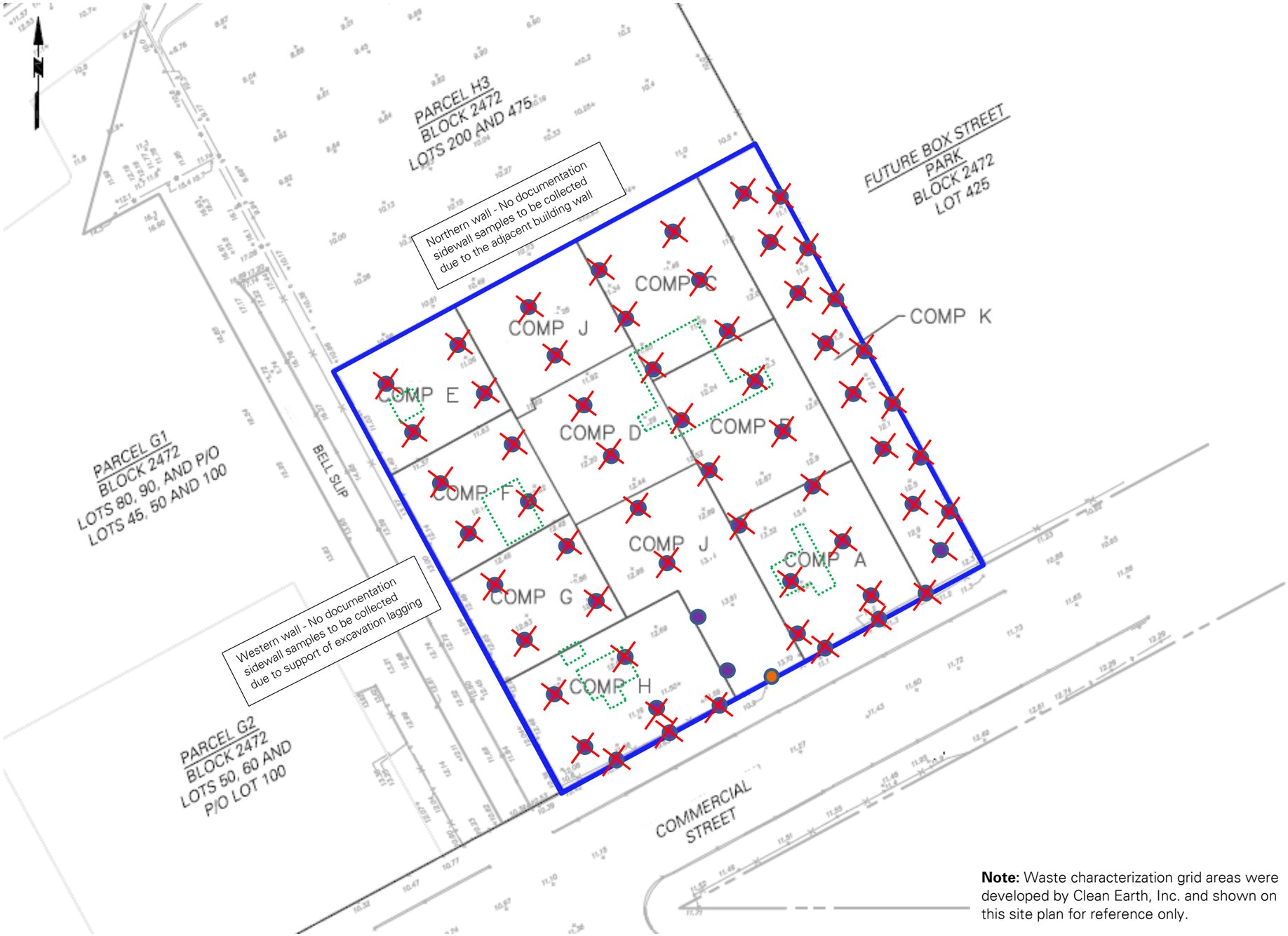
SITE PLAN

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

- **Site Boundary**
- **Waste Characterization Grid COMP I (5-10)**
- **Upwind CAMP station**
- **Downwind CAMP station**
- **Stockpile – Soil**
- **Stockpile – C&D (Concrete)**
- **Stockpile – Imported Material**
- **Approximate Location of Excavation**
- **Approximate Area of Backfilling**
- **Approximate Area of Regrading**
- **Approximate Area of Asphalt/Concrete Removal**
- **Approximate Location of Concrete Pouring**
- **Approximate Area of Installed Demarcation Layer**
- **Approximate Location of Hotspot Endpoint Sample**

A

DOCUMENTATION SAMPLE PLAN



Site Boundary

Waste Characterization Grid
COMP I (5-10)

Proposed Base Documentation Sample Location

Proposed Base Documentation Sample Location

Documentation Sample Collected Today

Previously Collected Documentation Sample

Note: Waste characterization grid areas were developed by Clean Earth, Inc. and shown on this site plan for reference only.

WATERPROOFING/VAPOR BARRIER AND SMD INSTALLATION MAP

Note: Base Map Source: Drawing FO-100.00, Foundation (1st Floor) Plan, Dated December 20, 2019, Prepared by WSP USA.

- **Site Boundary**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower A**
- **Approximate Location of Sub-Slab Vapor Collection Slotted Pipe Run – Blower B**
- **Approximate Location of Deep Foundation Elements (No Depressurization)**
- **SMD System Installation In Progress (Geotextile/Aggregate)**
- **SMD System Installation In Progress (SMD Piping)**
- **SMD System Installation In Progress (Waterproofing/Vapor Barrier)**
- **Concrete Foundation Slab Poured**

Photo Log

Photo 1: General view of the site (facing southwest).	
Photo 2: View of STNY excavating in waste characterization grid COMP J South (facing northeast)	

Photo 3: View of STNY stockpiling the previously imported 0.75-inch virgin stone from Tilcon - Mt. Hope Quarry (facing north).	
Photo 4: View of STNY backfilling in waste characterization grid COMP J South with 0.75-inch virgin stone from Tilcon - Mt. Hope Quarry (facing southwest)