

WEEKLY PROGRESS STATUS REPORT

Site Name: Vo-Toys Site, Harrison, New Jersey

CERCLA Docket No.: 02-2019-2028

Report No.: 50

Report Date: August 6, 2021

Reporting Period: August 2 to August 5, 2021

1 Weekly Progress Meeting – August 06, 2021

<i>Name</i>	<i>Company</i>	<i>Title/Position</i>	<i>On-Site</i>	<i>Call-In</i>
O'Toole, Tim	General Electric	Project Coordinator		
Musser, Doug	Anchor QEA	Project Manager	✓	
Carrillo-Sheridan, Margaret	Anchor QEA	Engineer of Record		✓
Nowak, Tyler	Anchor QEA	Engineer's Representative		✓
Yumiguano, Fab	Anchor QEA	Engineer's Representative	✓	
Jefts, Luke	Anchor QEA	Task Manager		✓
Hathaway, Sandy	Anchor QEA	Task Manager		✓
Bleichner, Alexander	Anchor QEA	Air Monitor	✓	
Rosoff, Dave	USEPA	On-Scene Coordinator		✓
D'Onofrio, Cris	USEPA	On-Scene Coordinator		
Byk, Jon	USEPA	On-Scene Coordinator	✓	
Milarczyk, Glenn	Brandenburg	Project Manager		
Durishin, Brendyn	Brandenburg	Field Engineer	✓	
McGarel, Nick	Brandenburg	Onsite Health and Safety	✓	
Scott, Tony	Brandenburg	Site Supervisor	✓	

2 Health and Safety/COVID-19

Hours Worked Summary: Brandenburg, Anchor QEA, and Arcadis	
Project to Date as of August 5, 2021	Total Man Hours: 37,933

- Daily health and safety meetings were conducted each morning.
- Brandenburg continued to implement COVID-19 management protocols. Their job trailer and common areas are disinfected daily, and cleaning activities are documented.
- Anchor QEA continued to disinfect their trailer on a daily basis and document the cleaning activities.

- Next week the COVID-19 management plan will be updated based on the current CDC guidance. The primary change is that while indoors or in areas where social distancing cannot be achieved, masks must be worn by both the vaccinated and unvaccinated.

3 Work Completed – August 2 to August 5, 2021

Brandenburg (RA Contractor)

- Performed work area air monitoring. A summary of work area air monitoring data is presented in the table below.

Summary of Brandenburg's Work Area Health and Safety Air Monitoring for Mercury Vapor

Date	Mercury Vapor Work Area Range (ug/m ³) Respiratory Protection Upgrade Action Level 25 ug/m ³
Building A	
8/02/2021	0.0 – 2.0
8/03/2021	2.0 – 6.0
8/04/2021	1.0 – 4.0
8/05/2021	1.0 – 3.0
Building B	
8/02/2021	11.0 – 62.0
8/03/2021	31.0 – 120.0
8/04/2021	13.0 – 66.0
8/05/2021	2.0 – 43.0
Building C	
8/02/2021	No Monitoring Required
8/03/2021	No Monitoring Required
8/04/2021	No Monitoring Required
8/05/2021	No Monitoring Required

Notes:

1. µg/m³: micrograms per cubic meter
2. See POP HASP for further details on action levels

Building C

- Continued communications with the Harrison DPW regarding the status of their valve replacement work as it relates to utility sleeving work to be conducted.

Building B

- Completed pre-demo cleaning and washdown of building interior.

Building A

- Commenced abatement of the roof flashing asbestos material.
- Completed foundation paint/coating removal on the first floor.
- Continued universal waste removal.
- Completed floor removal on the second floor.
- Completed the asbestos-containing floor tile abatement.
- PSEG completed the remaining electrical disconnections.
- PSEG completed the gas line capping at the 5th Street connection.

Anchor QEA (Engineer and Air Monitor)

- Performed work area perimeter, site perimeter, and off-site/community air monitoring in accordance with the CAMP (during intrusive activities).

All other work area perimeter and site perimeter readings were less than the CAMP action levels. Results for off-site/community air monitoring for July 26, July 28-29, and August 2-3, 2021 were below the action level and results for August 4-5, 2021 are pending from the laboratory. A summary of work area perimeter air monitoring data is presented in the table below. Site perimeter and off-site air monitoring results are discussed in the Weekly Air Monitoring Report.

Summary of Anchor QEA's Work Area Perimeter Air Monitoring for PM₁₀ and Mercury Vapor

Date	PM ₁₀ 15-Minute Average Range (ug/m ³) <i>Action Level < 125 ug/m³</i>	Mercury Vapor 15-Minute Average Range (ug/m ³) <i>Action Level < 10 ug/m³</i>
Building A		
8/02/2021	28.0 – 38.0	0.0 – 1.0
8/03/2021	25.0 – 42.0	0.0 – 8.0
8/04/2021	36.0 – 59.0	0.0 – 1.0
8/05/2021	23.0 – 115.0	0.0 – 1.0
Building B		
8/02/2021	28.0 – 38.0	0.0 – 9.0
8/03/2021	25.0 – 42.0	0.0 – 11.0 ⁶
8/04/2021	12.0 – 59.0	0.0 – 25.0 ⁶
8/05/2021	23.0 – 115.0	0.0 – 18.0 ⁶
Building C		
8/02/2021 <small>See Note 5</small>	No Monitoring Required	0.0
8/03/2021 <small>See Note 5</small>	No Monitoring Required	0.0
8/04/2021 <small>See Note 5</small>	No Monitoring Required	0.0
8/05/2021 <small>See Note 5</small>	No Monitoring Required	0.0

Notes:

1. ug/m³: micrograms per cubic meter.

2. PM₁₀ action levels: Normal operations if 15-minute average of PM₁₀ readings is <125 ug/m³. If readings > 125 ug/m³ additional actions would be required per CAMP.
3. Mercury vapor action level: Normal operations if mercury vapor for a single reading is <10 ug/m³.
4. See CAMP for further details on action levels.
5. Maximum breathing zone reading in the waste storage area on the Building C slab.
6. Mercury vapor readings above action levels were attributed to readings taken by the waste loadout door. The contractor was informed that while not actively loading out to keep the door closed to reduce vapor levels.

- Reviewed and signed waste T&D documentation.
- Reviewed waste storage areas.
- Reviewed and documented RA activities.
- Prepared Weekly Air Monitoring Report (Attachment 1 to this report).

Arcadis (Waste Coordinator)

- A summary of building wastes shipped off site for disposal is presented in the table below.

Building	Waste Stream	Final Disposal	Weekly # of Loads/Containers	Weekly Volume Disposed
A/B	Non-hazardous Debris, Low Mercury	Tunnel Hill Reclamation, Subtitle D Landfill	6	37.49 Tons
A/B	Hazardous Debris, High Mercury	WMI Emelle Landfill, AL	1	6.71 Tons

4 Anticipated Work for Upcoming Three Weeks

Brandenburg (RA Contractor)

Building C

- Continuing coordination with Harrison DPW on the potable water and sanitary sewer line sleeves for all three buildings.

Building B

- Placing the cushion material on top of the first-floor liner.
- Draining and cleaning the transformers on the northeast corner of the building.
- Commencing the exterior window and roof asbestos-containing material abatement.

Building A

- Commencing manual demolition of the north wall.
- Removing equipment from the boiler house to make room for waste storage.

- Commencing the pre-demo cleaning and washdown of the building interior.
- Continuing abatement of roof flashing asbestos material.
- Discussing work on the north side of the building (proximity to the electrical wires) with PSEG. Also working with PSEG to remove the guy wire attached to the building.

Anchor QEA (Engineer and Air Monitor)

- Performing work area perimeter and site perimeter air monitoring in accordance with the CAMP (during intrusive activities).
- Performing offsite/community air monitoring in accordance with the CAMP.
- Performing asbestos abatement project and air monitoring activities.
- Reviewing and documenting RA activities.
- Reviewing and signing waste T&D documentation.
- Reviewing waste storage areas.
- Scanning Building B with a mercury vapor analyzer following building washdown.
- Scanning Building A with a mercury vapor analyzer following building washdown.

Arcadis (Waste Coordinator)

- Tracking waste shipments and disposal documentation.
- Preparing waste profiles and other facility documentation for the Buildings A and B waste.

5 Status of Submittal Review

- None.

6 Community Participation

- None.

7 Project Delays, Construction Issues/Modifications or Potential Modifications to AOC

- None

8 Overall Project Schedule Update

- The RA activities in Building B and Building A are in progress and on schedule.

Attachment 1 – Weekly Air Monitoring Report

WEEKLY AIR MONITORING REPORT

Vo-Toys Removal Action

Site Name: Vo-Toys Site, Harrison, New Jersey

CERCLA Docket No.: 02-2019-2028

Report No.: 46

Report Date: August 06, 2021

Reporting Period: August 02 to August 05, 2021

1 Introduction

This report summarizes the Vo-Toys Removal Action (RA) air monitoring program conducted between August 02 to August 05, 2021, at the Vo-Toys site located at 400 South 5th Street, Harrison, New Jersey (the site). Air monitoring for particulates less than 10 microns in diameter (PM₁₀) and mercury vapor was conducted in accordance with the U.S. Environmental Protection Agency (USEPA)-approved Community Air Monitoring Plan (CAMP). PM₁₀ and mercury vapor results were compared with action levels presented in the CAMP.

Air monitoring during the week of August 02, 2021 included the following monitoring tasks:

- Meteorological monitoring
- Work area perimeter air monitoring
- Site perimeter air monitoring
- Off-site/Community air monitoring

A summary of the monitoring activities that were conducted is presented in Section 3.

2 Meteorological Monitoring

Meteorological monitoring was conducted to measure wind speed, wind direction, and air temperature. Meteorological readings were recorded on a data logging device and evaluated at least three times per day to determine the upwind and downwind boundaries of the site.

Table 2-1 presents a summary of the meteorological monitoring during the week of August 02, 2021. The attached site air monitoring figures show the locations of the meteorological sensors.

Table 2-1
Meteorological Monitoring Summary

Date	Weather
August 02, 2021	Partly sunny, High in the mid-70s°F; Winds: 10-15 mph NW (online), 0-5 mph W (site)
August 03, 2021	Partly sunny, High in the low 80s°F; Winds: 5-10 mph NE (online), 0-5 mph W (site)
August 04, 2021	Overcast, High in the upper 70s°F; Winds: 5-10 mph ENE (online), 0-5 mph E (site)
August 05, 2021	Overcast, High in the upper 70s°F; Winds: 5-10 mph N (online), 0-5 mph N (site)

3 PM₁₀ and Mercury Vapor Monitoring

3.1 Work Area Perimeter Air Monitoring

Air monitoring was performed at the perimeter of the RA work areas and the RA activities were modified as necessary so that particulates and mercury vapors above action levels were not migrating to the site perimeter and off-site/community air monitoring locations. The work area perimeter monitoring locations were in or adjacent to the buildings and were determined based on the location and extent of RA activities and, for exterior RA activities, the prevailing wind direction. Readings were recorded and maintained on site by the Engineer.

3.2 Site Perimeter Air Monitoring Summary

Site perimeter monitoring was performed to document that particulates (PM₁₀) or mercury vapor above action levels were not migrating beyond the site boundary. Five air monitoring stations were located outside the buildings around the site perimeter: one upwind and four downwind. Figures SP-1 through SP-4 show the locations of the site perimeter stations each day. Readings were recorded and maintained on site by the Engineer.

All PM₁₀ and mercury vapor site perimeter air monitoring data were below action levels defined in the CAMP. A summary of site perimeter air monitoring data is presented in Table 3-1.

Table 3-1
Summary of PM₁₀ and Mercury Vapor Site Perimeter Air Monitoring

Date	Air Monitoring Station/Location	Upwind/Downwind	PM ₁₀ 15-Minute Average Range (ug/m ³) Action Level < 100 ug/m ³	Mercury Vapor 15-Minute Average Range (ug/m ³) Action Level < 10 ug/m ³
08/02/2021	Station 1 – West	Upwind	16.5 – 38.2	0.10 - 0.12
	Station 2 – East	Downwind	7.0 – 27.6	0.11 - 2.06
	Station 3 – Southeast	Downwind	15.4 – 38.5	0.10 - 0.48
	Station 4 – North	Downwind	3.0 – 84.1	0.11 - 0.35

Date	Air Monitoring Station/Location	Upwind/ Downwind	PM ₁₀ 15-Minute Average Range (ug/m ³) Action Level < 100 ug/m ³	Mercury Vapor 15-Minute Average Range (ug/m ³) Action Level < 10 ug/m ³
	Station 5 – South	Downwind	4.3 – 36.1	-
08/03/2021	Station 1 – West	Upwind	14.2 – 25.3	0.10 - 0.30
	Station 2 – East	Downwind	8.3 – 14.2	0.10 - 0.87
	Station 3 – Southeast	Downwind	12.3 – 22.6	0.10 - 0.43
	Station 4 – North	Downwind	0.9 – 9.6	0.11 - 0.23
	Station 5 – South	Downwind	4.3 – 27.1	-
08/04/2021	Station 1 – West	Downwind	25.7 – 41.4	0.10 - 0.22
	Station 2 – East	Upwind	13.8 – 27.7	0.10 - 0.23
	Station 3 – Southeast	Downwind	22.7 – 37.1	0.10 - 0.29
	Station 4 – North	Downwind	9.3 – 37.3	0.12 - 0.20
	Station 5 – South	Downwind	13.9 – 30.3	-
08/05/2021	Station 1 – West	Downwind	18.1 – 27.9	0.10 - 0.25
	Station 2 – East	Downwind	9.3 – 50.1	0.10 - 0.59
	Station 3 – Southeast	Downwind	16.7 – 38.3	0.10 - 0.66
	Station 4 – North	Upwind	4.5 – 17.8	0.15 - 0.24
	Station 5 – South	Downwind	7.7 – 43.7	-

Notes:

1. PM₁₀ action level: Normal operations if PM₁₀ < 100 ug/m³.
2. Mercury vapor action level: Normal operations if 15-minute average of MVA readings is < 10 ug/m³.
3. See CAMP for further details on action levels.

3.3 Off-Site/Community Air Monitoring

Off-site/community air monitoring for mercury vapors was performed during specific phases of the RA to document that mercury vapor above action levels were not migrating beyond the site boundary. In accordance with the CAMP, each day that included a qualifying mercury vapor monitoring event, four 8-hour off-site air samples were collected for mercury vapor analysis (one upwind and three downwind). Off-site/community air monitoring for mercury vapors was performed August 02 to 05, 2021. Figures SP-1 through SP-4 show the locations of the off-site/community air sample locations for the days when sampling was performed.

A summary of off-site/community air monitoring (including analytical results from the previous week) is presented in Table 3-2.

Table 3-2
Summary of Mercury Vapor Off-Site/Community Air Monitoring

Date	Mercury Vapor Monitoring Event	Air Monitoring Station/Location	Upwind/ Downwind	Mercury Vapor 8-Hour Sample (ug/m ³) Action Level < 4 ug/m ³
07/26/2021		Station 1 - West	Upwind	ND

Date	Mercury Vapor Monitoring Event	Air Monitoring Station/Location	Upwind/ Downwind	Mercury Vapor 8-Hour Sample (ug/m ³) Action Level <4 ug/m ³
	Floor Removal	Station 2 - Southeast	Downwind	ND
		Station 3 – East	Downwind	ND
		Station 4 - North	Downwind	ND
07/28/2021	Building B Washdown	Station 1 - West	Downwind	ND
		Station 2 - Southeast	Upwind	ND
		Station 3 – East	Downwind	ND
		Station 4 - North	Downwind	ND
07/29/2021	Building B Washdown/ Asbestos Abatement	Station 1 - West	Upwind	ND
		Station 2 - Southeast	Downwind	ND
		Station 3 – East	Downwind	ND
		Station 4 - North	Downwind	ND
08/02/2021	Building B Washdown	Station 1 - West	Upwind	ND
		Station 2 - Southeast	Downwind	ND
		Station 3 – East	Downwind	ND
		Station 4 - North	Downwind	ND
08/03/2021	Building B Washdown	Station 1 - West	Upwind	ND
		Station 2 - Southeast	Downwind	ND
		Station 3 – East	Downwind	ND
		Station 4 - North	Downwind	ND
08/04/2021	Building B Washdown	Station 1 - West	Downwind	Results Pending (to be reported next week)
		Station 2 - Southeast	Downwind	Results (to be reported next week)
		Station 3 – East	Upwind	Results Pending (to be reported next week)
		Station 4 - North	Downwind	Results Pending (to be reported next week)
08/05/2021	Building B Washdown	Station 1 - West	Downwind	Results Pending (to be reported next week)
		Station 2 - Southeast	Downwind	Results (to be reported next week)
		Station 3 – East	Downwind	Results Pending (to be reported next week)
		Station 4 - North	Upwind	Results Pending (to be reported next week)

Note:

1. ND = Not detected at a concentration above the laboratory detection limit
2. J = Estimated

4 Monitoring Equipment

Table 4-1 presents the air monitoring devices used.

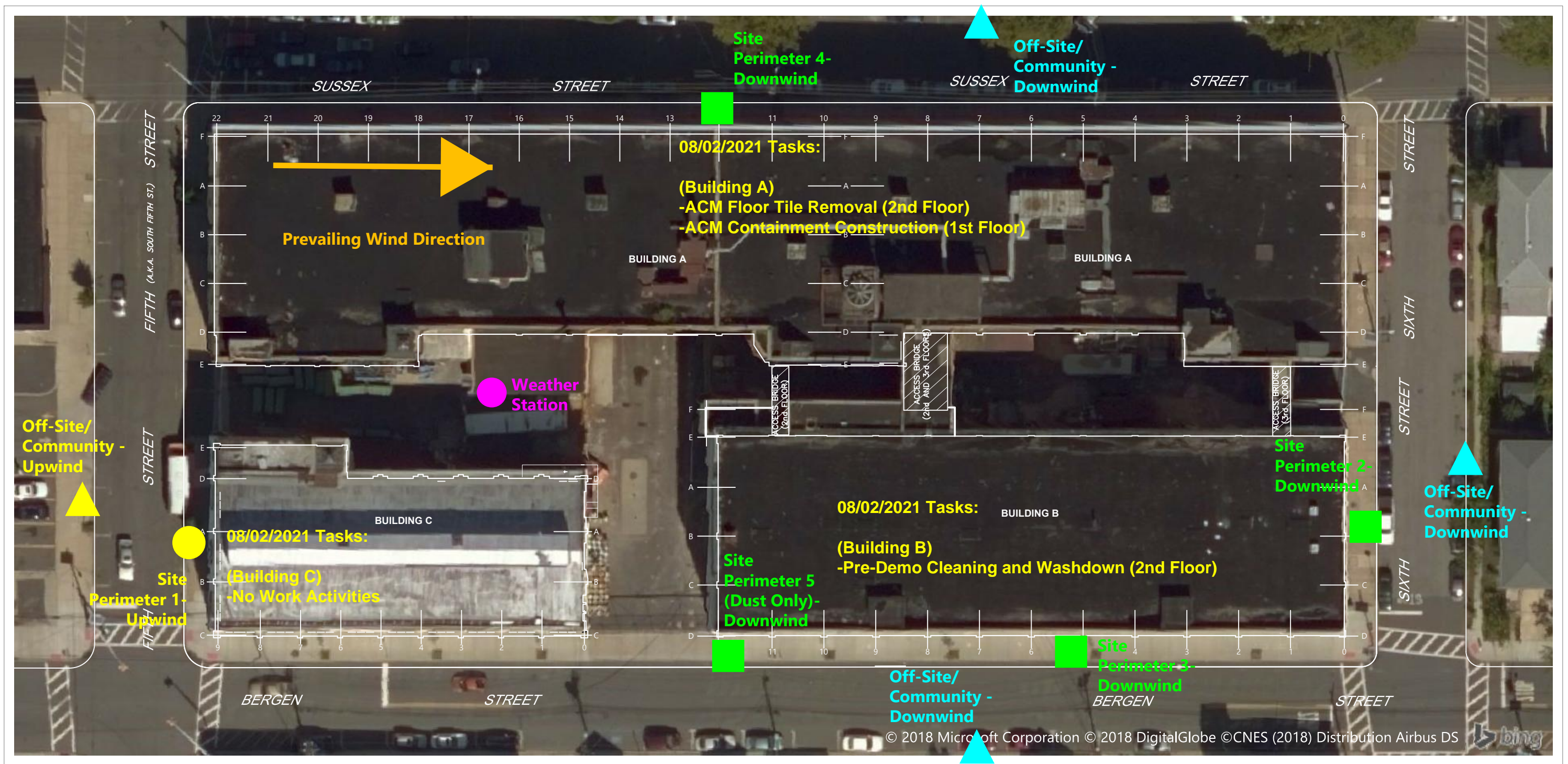
Table 4-1
Monitoring Equipment and Calibration

Parameter	Monitoring Equipment
Mercury Vapors – Real Time and Average Concentrations	<ul style="list-style-type: none"> Jerome Mercury Vapor Analyzer J405 – Arizona Instruments, LLC (work area monitoring, regenerated prior to daily use) VM 3000 – Mercury Instruments (site perimeter stations, auto zeroed prior to daily use)
Airborne Particulates	<ul style="list-style-type: none"> MIE DataRAM™ Portable Particulate Monitor (work area perimeter, zeroed prior to daily use) TSI Dusttrak Particulate Monitor (site perimeter stations, zeroed prior to daily use)
Meteorological Monitoring	<ul style="list-style-type: none"> Vantage Pro 2 weather station
Mercury Vapors – 8-hour Average Concentrations via NIOSH 6009	<ul style="list-style-type: none"> Sensidyne Gilian GilAir 3 air sampling pump (low flow module) Mesa Labs Defender 500 series air sampling pump flow calibrator Solid sorbent glass tubes containing Hopcalite

5 Issues or Potential Modifications to the CAMP

None

Figures



SOURCE: Floor plans compiled from CAD file entitled: "FIG05-REV071615" provided by AMEC Foster Wheeler, Inc. on March 31, 2016. Subsurface utilities and features compiled from CAD file entitled: "NUMBERED_SITEMAP_20101" provided by General Electric Company on March 3, 2016.

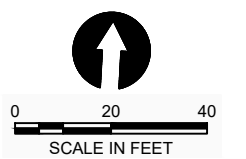
HORIZONTAL DATUM: New Jersey State Plane, North American Datum 1983, U.S. Feet (NJ83F).

VERTICAL DATUM: (None).

LEGEND

A,1 — — — BUILDING COLUMN LINE

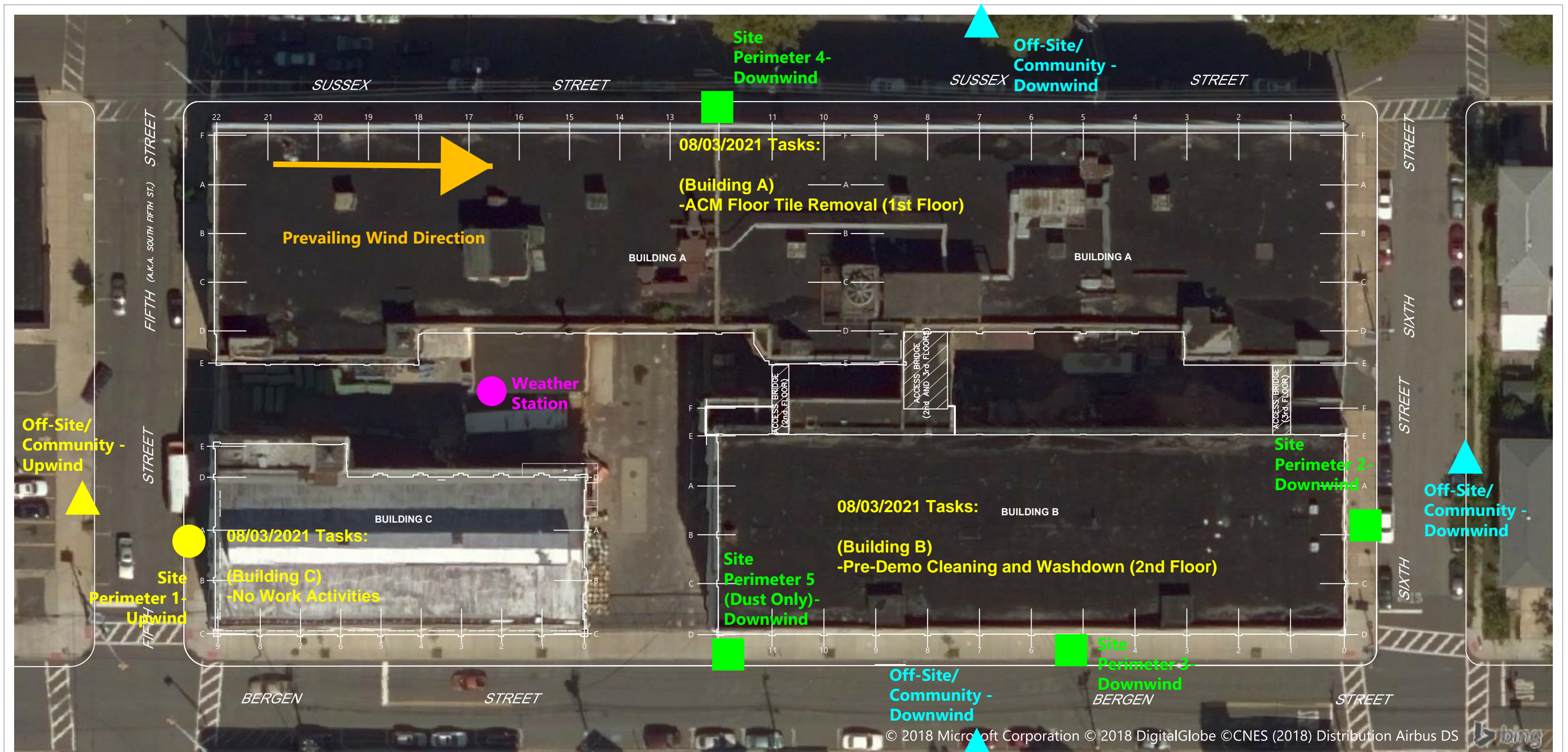
- Site Perimeter Air Monitoring Location
- Upwind Site Perimeter Monitoring Location
- ▲ Off-Site/Community Air Monitoring Location (Yellow is upwind off-site location)



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Figure SP-1
08/02/2021
Air Monitoring Station Locations
 Vo Toys Removal Action
 General Electric Company

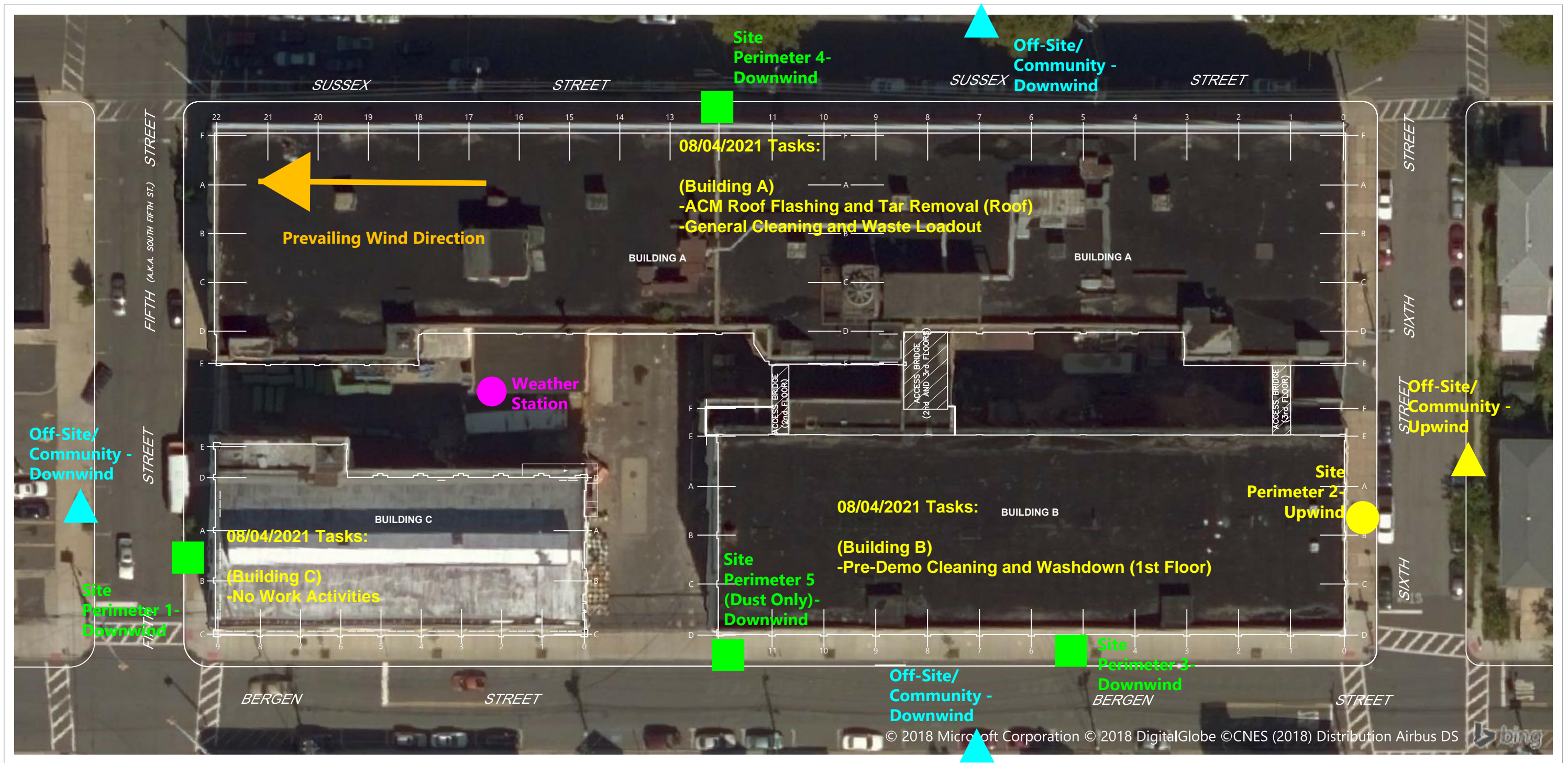


SOURCE: Floor plans compiled from CAD file entitled: "FIG05-REV071615" provided by AMEC Foster Wheeler, Inc. on March 31, 2016. Subsurface utilities and features compiled from CAD file entitled: "NUMBERED_SITEMAP_20101" provided by General Electric Company on March 3, 2016.
HORIZONTAL DATUM: New Jersey State Plane, North American Datum 1983, U.S. Feet (NJ83F).
VERTICAL DATUM: (None).

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Figure SP-2
08/03/2021
Air Monitoring Station Locations
 Vo Toys Removal Action
 General Electric Company

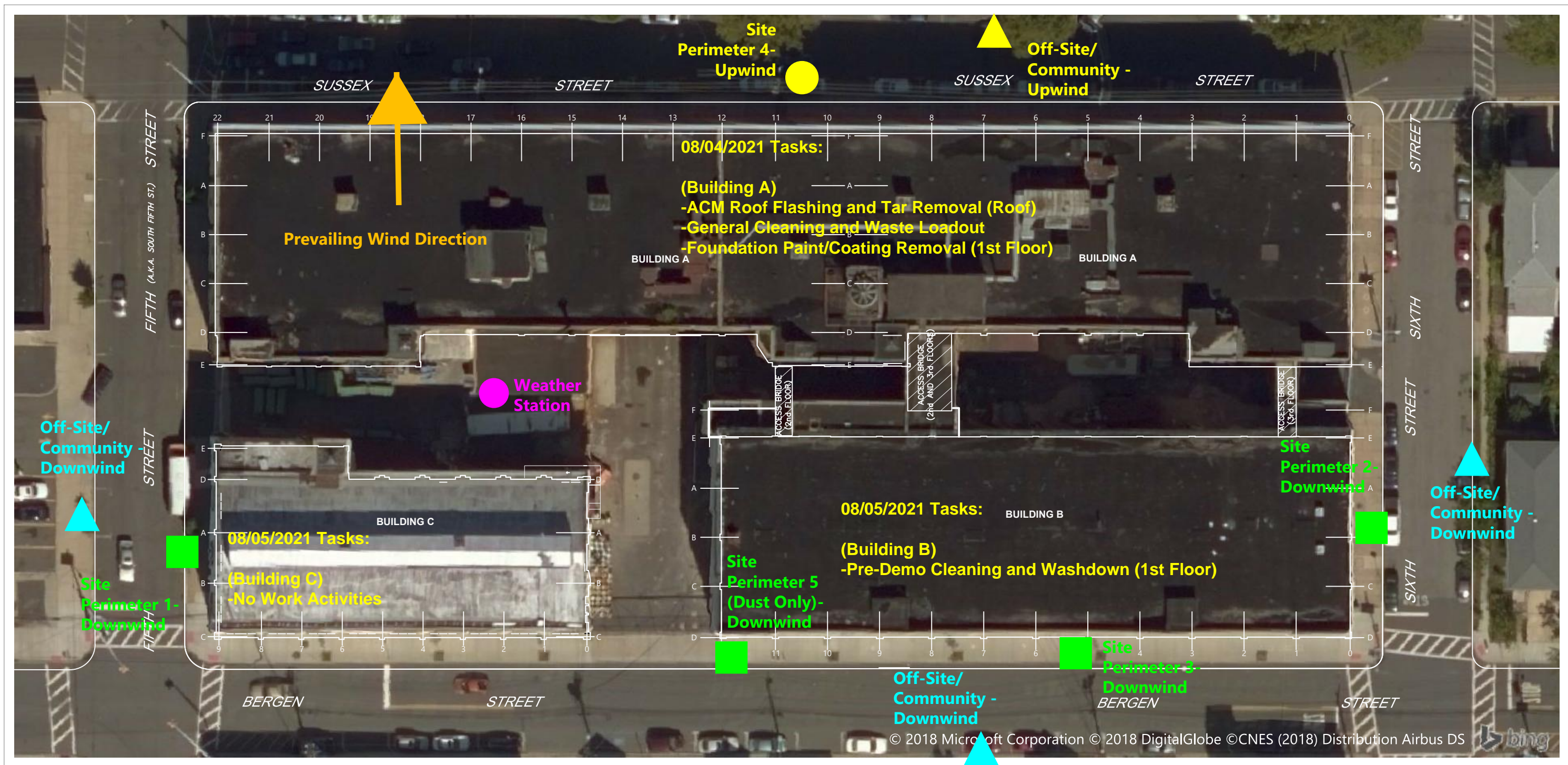


SOURCE: Floor plans compiled from CAD file entitled: "FIG05-REV071615" provided by AMEC Foster Wheeler, Inc. on March 31, 2016. Subsurface utilities and features compiled from CAD file entitled: "NUMBERED_SITEMAP_20101" provided by General Electric Company on March 3, 2016.
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VERTICAL DATUM: (None).

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Figure SP-3
08/04/2021
Air Monitoring Station Locations
 Vo Toys Removal Action
 General Electric Company



SOURCE: Floor plans compiled from CAD file entitled: "FIG05-REV071615" provided by AMEC Foster Wheeler, Inc. on March 31, 2016. Subsurface utilities and features compiled from CAD file entitled: "NUMBERED_SITEMAP_20101" provided by General Electric Company on March 3, 2016.

HORIZONTAL DATUM: New Jersey State Plane, North American Datum 1983, U.S. Feet (NJ83F).

VERTICAL DATUM: (None).

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Figure SP-4
08/05/2021
Air Monitoring Station Locations
 Vo Toys Removal Action
 General Electric Company