

# WEEKLY PROGRESS STATUS REPORT

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

**CERCLA Docket No.:** 02-2019-2028

**Report No.:** 124

**Report Date:** August 18, 2023

**Reporting Period:** August 14 to August 18, 2023

## 1 Weekly Progress Meeting – August 17, 2023

| <i><b>Name</b></i>          | <b>Company</b>   | <b>Title/Position</b>     | <b>On-Site</b> | <b>Call-In</b> |
|-----------------------------|------------------|---------------------------|----------------|----------------|
| Varacchi-Ives, Dawn         | General Electric | Project Coordinator       |                | ✓              |
| Musser, Doug                | Anchor QEA       | Project Manager           |                |                |
| Carrillo-Sheridan, Margaret | Anchor QEA       | Engineer of Record        |                | ✓              |
| Bleichner, Alex             | Anchor QEA       | Engineer's Representative |                | ✓              |
| Colquhoun, Steve            | Anchor QEA       | Engineer's Representative | ✓              |                |
| Hathaway, Sandy             | Anchor QEA       | Task Manager              |                | ✓              |
| Shuler, Randy               | WSP              | LSRP                      |                | ✓              |
| Karl, Tovah                 | WSP              | Project Manager           |                | ✓              |
| Husted, Chris               | WSP              | Task Manager              |                |                |
| Mueck, John                 | WSP              | Construction Manager      | ✓              |                |
| Rosoff, Dave                | USEPA            | On-Scene Coordinator      | ✓              |                |
| Byk, Jon                    | USEPA            | On-Scene Coordinator      |                |                |

## 2 Health and Safety

| <b>Hours Worked Summary:</b>  |        |
|---|--------|
| Building A East Footer and Soil Removal Project to Date as of August 18, 2023 |        |
| Anchor QEA  | 1722   |
| WSP   | 1948   |
| EWMI  | 5682.5 |

- Daily health and safety meetings were conducted each morning.
- The team discussed taking measures to prevent heat stress (i.e., taking breaks in shaded areas) and mitigate UV exposure (i.e., wearing sunscreen and protective clothing).

### 3 Work Completed – August 14 to August 18, 2023

#### WSP/EWMI (RA Contractor)

- Completed the central sewer piping removal/assessment in the Building A/C courtyard.
- Excavated an east-west trench on the north side of Building C to assess if additional piping was present.
- WSP's subcontractor, Colliers Engineering & Design, performed a focused utility markout using geophysical methods in the Building A footprint.
- Removed piping identified during the utility markout in Building A.
- Backfilled and compacted excavation areas.
- Graded the A/C courtyard.
- Performed work area air monitoring.
- Segregated, staged, and sized waste materials.
- Covered/tarped waste containers/stockpiles when not in active use.
- Coordinated and scheduled off-site transportation and disposal.
- Collected post-excavation samples from piping excavations to support the NJDEP LSRP requirements.
- Waste transported off-site this week included the following:
  - Eight loads (156.00 tons) of nonhazardous concrete
  - Five loads (110.88 tons) of nonhazardous soil

#### Anchor QEA (Engineer and Air Monitor)

- Performed work area perimeter and site perimeter air monitoring in accordance with the CAMP (during intrusive activities). A summary of work area perimeter air monitoring data is presented in the Weekly Air Monitoring Report.
- Reviewed and documented RA activities.
- Documented MVA and visual observations during pipe removal activities.
- Prepared Weekly Air Monitoring Report (Attachment 1 to this report).
- Mercury vapor screening of excavations and piping.

### 4 Anticipated Work for Upcoming Week

#### WSP/EWMI (RA Contractor)

- Removing and mercury vapor screening of stockpile areas.
- Installing temporary fencing at open vaults, holes, and depressions.
- Demobilizing equipment and materials.
- Coordinating the transportation and disposal of the waste

- Tracking waste shipments and disposal documentation.

### Anchor QEA (Engineer and Air Monitor)

- Performing work area perimeter and site perimeter air monitoring in accordance with the CAMP (during intrusive activities).
- Reviewing and documenting RA activities.
- Mercury vapor screening of surface soil as the staging areas are removed.
- Reviewing utility disconnect activities with the Town of Harrison.
- Preparing a treatability study to address mercury present in Building A footers under the NJDEP program.

## 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

- None.

## 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.:** 123

**Report Date:** August 18, 2023

**Reporting Period:** August 14 to August 18, 2023

## 1 Introduction

This report summarizes the Vo-Toys Removal Action (RA) air monitoring program conducted between August 14 to August 18, 2023, at the Vo-Toys site located at 400 South 5<sup>th</sup> Street, Harrison, New Jersey (the site). Air monitoring for particulates less than 10 microns in diameter (PM<sub>10</sub>) and mercury vapor was conducted in accordance with the U.S. Environmental Protection Agency (USEPA)-approved Community Air Monitoring Plan (CAMP). PM<sub>10</sub> and mercury vapor results were compared with action levels presented in the CAMP.

Air monitoring during the week of August 14, 2023, included the following monitoring tasks:

- Meteorological monitoring
- Work area perimeter air monitoring
- Site perimeter 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 14, 2023. The attached site air monitoring figures show the locations of the meteorological sensors.

**Table 2-1**  
**Meteorological Monitoring Summary**

| Date            | Weather  |
|-----------------|--|
| August 14, 2023 | Mostly cloudy, High in the upper 80s °F; Winds 5-10 mph SW (Online)                |
| August 15, 2023 | Overcast, High in the mid-80s °F; Winds 5 mph N (Online)                           |
| August 16, 2023 | Cloudy, High in the low 80s °F; Winds 5 mph SE (Online)                            |
| August 17, 2023 | Overcast/Raining, High in the low 80s °F; Winds 5-10 mph SE (Online)               |
| August 18, 2023 | Mostly Sunny after Rain Showers, High in the low 80s °F; Winds 5-15 mph W (Online) |

### 3 PM<sub>10</sub> 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 building footprints and were determined based on the location and extent of RA activities and the prevailing wind direction. Readings were recorded and maintained on site by the Engineer.

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

#### Summary of Anchor QEA's Work Area Perimeter Air Monitoring for PM<sub>10</sub> and Mercury Vapor

| Date                                | PM <sub>10</sub> 15-Minute Average Range<br>(ug/m <sup>3</sup> )<br><i>Action Level &lt;125 ug/m<sup>3</sup></i> | Mercury Vapor 15-Minute<br>Average Range (ug/m <sup>3</sup> )<br><i>Action Level &lt;10 ug/m<sup>3</sup></i> |
|-------------------------------------|--|--|
| <b>Building A West End Removals</b> |  |  |
| August 14, 2023                     | 3.0 – 23.0   | 0.0 – 0.0  |
| August 15, 2023                     | 8.0 – 19.0   | 0.0 – 0.0  |
| August 16, 2023                     | 2.0 – 19.0   | 0.0 – 0.0  |
| August 17, 2023                     | 11.0 – 20.0  | 0.0 – 0.0  |
| August 18, 2023                     | 8.0 – 9.0  | 0.0 – 0.0  |

Notes:

1. ug/m<sup>3</sup>: micrograms per cubic meter.
2. PM<sub>10</sub> action levels: Normal operations if 15-minute average of PM<sub>10</sub> readings is <125 ug/m<sup>3</sup>. If readings >125 ug/m<sup>3</sup> additional actions would be required per CAMP.
3. Mercury vapor action level: Normal operations if mercury vapor for a single reading is <10 ug/m<sup>3</sup>.
4. See CAMP for further details on action levels.

#### 3.2 Site Perimeter Air Monitoring Summary

Site perimeter monitoring was performed to document that particulates (PM<sub>10</sub>) or mercury vapor above action levels were not migrating beyond the site boundary. Four air monitoring stations were

located outside the building footprints around the site perimeter: one upwind and three downwind. Figures SP-1 through SP-5 show the locations of the site perimeter stations each day. Readings were recorded and maintained on site by the Engineer.

All PM<sub>10</sub> 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.

**Table 3-1**  
**Summary of PM<sub>10</sub> and Mercury Vapor Site Perimeter Air Monitoring**

| Date      | Air Monitoring Station/Location | Upwind/Downwind | PM <sub>10</sub> 15-Minute Average Range (ug/m <sup>3</sup> )<br>Action Level <100 ug/m <sup>3</sup> | Mercury Vapor 15-Minute Average Range (ug/m <sup>3</sup> )<br>Action Level <10 ug/m <sup>3</sup> |
|-----------|---------------------------------|-----------------|--|--|
| 8/14/2023 | Station 1 – West                | Downwind        | 7.07 – 35.1  | No Measurements <sup>4</sup>   |
|           | Station 2 – East                | Downwind        | 5.73 – 34.4  | 0.10 – 0.28  |
|           | Station 3 – Southeast           | Upwind          | 9.8 – 31.2   | 0.10 – 0.15  |
|           | Station 4 – North               | Downwind        | 12.0 – 30.9  | 0.10 – 0.30  |
| 8/15/2023 | Station 1 – West                | Downwind        | 4.53 – 31.3  | 0.10 – 1.13  |
|           | Station 2 – East                | Downwind        | 0.0667 – 39.7  | 0.10 – 0.26  |
|           | Station 3 – Southeast           | Downwind        | 6.8 – 36.8   | 0.10 – 0.31  |
|           | Station 4 – North               | Upwind          | 2.0 – 43.9   | 0.11 – 0.29  |
| 8/16/2023 | Station 1 – West                | Downwind        | 2.27 – 17.7  | 0.10 – 0.88  |
|           | Station 2 – East                | Downwind        | 0.0667 – 17.9  | 0.11 – 0.57  |
|           | Station 3 – Southeast           | Upwind          | 4.53 – 20.3  | 0.10 – 0.23  |
|           | Station 4 – North               | Downwind        | 3.0 – 22.9   | 0.12 – 0.31  |
| 8/17/2023 | Station 1 – West                | Downwind        | 7.53 – 40.3  | 0.10 – 0.28  |
|           | Station 2 – East                | Downwind        | 1.87 – 54.7  | 0.10 – 0.49  |
|           | Station 3 – Southeast           | Upwind          | 9.73 – 64.2  | 0.10 – 0.23  |
|           | Station 4 – North               | Downwind        | 3.0 – 43.5   | 0.11 – 0.20  |
| 8/18/2023 | Station 1 – West                | Upwind          | 2.27 – 12.0  | 0.10 – 0.60  |
|           | Station 2 – East                | Downwind        | 0.2 – 9.0  | 0.10 – 0.67  |
|           | Station 3 – Southeast           | Downwind        | 2.93 – 11.4  | 0.10 – 0.22  |
|           | Station 4 – North               | Downwind        | 1.0 – 17.8   | 0.14 – 2.50  |

Notes:

1. PM<sub>10</sub> action level: Normal operations if PM<sub>10</sub> <100 ug/m<sup>3</sup>.
2. Mercury vapor action level: Normal operations if 15-minute average of MVA readings is <10 ug/m<sup>3</sup>.
3. See CAMP for further details on action levels.
4. Due to rental equipment malfunction, Station 1 did not properly record mercury data on 8/14/2023. No exceedances encountered.

### 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 not performed during the week of August 14, 2023.

## 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"><li>Jerome Mercury Vapor Analyzer J405 – Arizona Instruments, LLC (work area monitoring, regenerated prior to daily use)</li><li>VM 3000 – Mercury Instruments (site perimeter stations, auto zeroed prior to daily use)</li></ul> |
| Airborne Particulates                                 | <ul style="list-style-type: none"><li>TSI Dusttrak Particulate Monitor (site perimeter stations, zeroed prior to daily use)</li></ul>  |
| Meteorological Monitoring                             | <ul style="list-style-type: none"><li>Vantage Pro 2 weather station</li></ul>  |

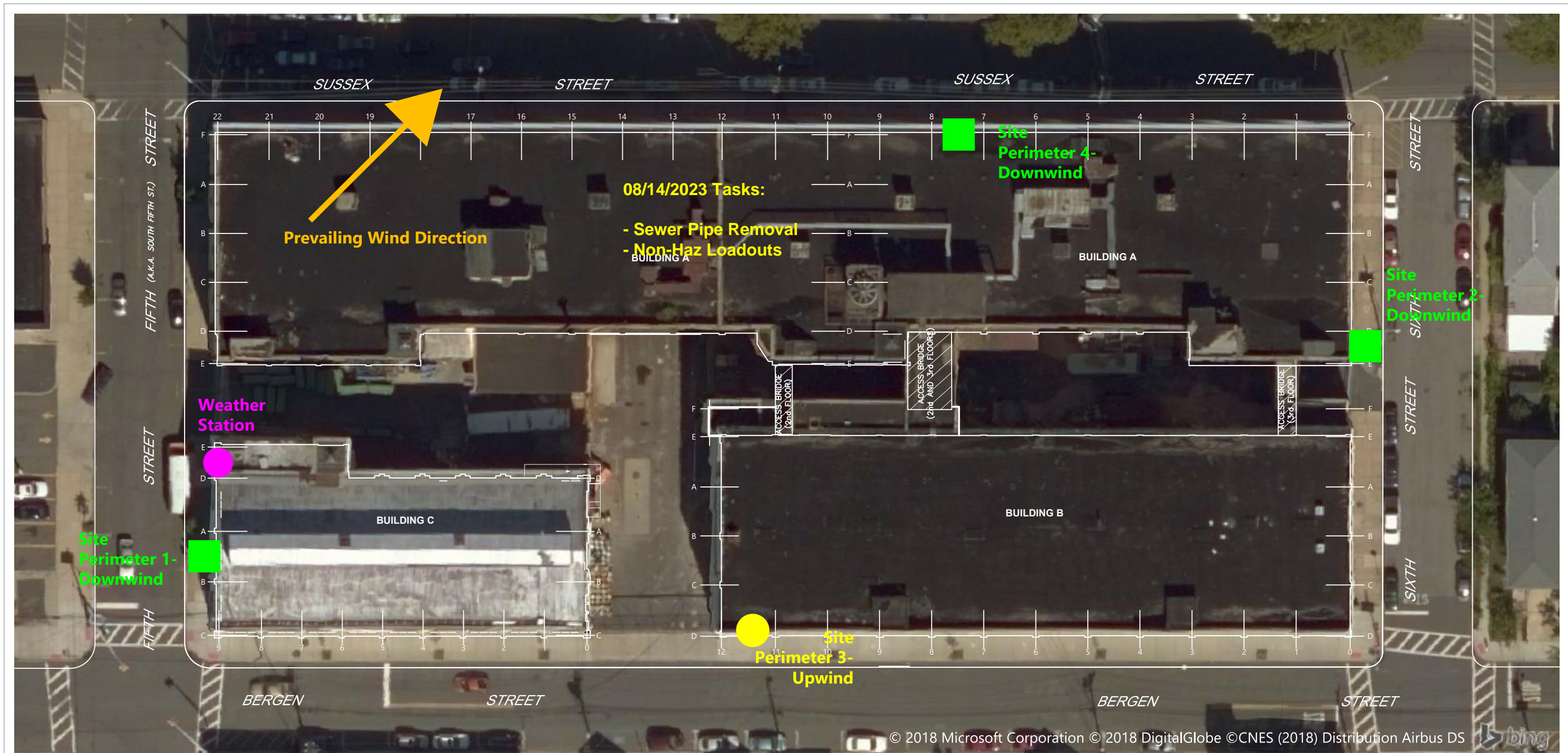
## 5 Issues or Potential Modifications to the CAMP

None



## Figures

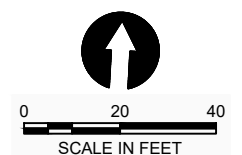
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**SOURCE:** Floor plans compiled from CAD file entitled: "FIG05-REV071615" provided by AMEC Foster Wheeler, Inc. on March 31, 2016. Subsurface utilities and features compiled from CAD file entitled: "NUMBERED\_SITEMAP\_20101" provided by General Electric 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



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**Figure SP-1**  
**08/14/2023**  
**Air Monitoring Station Locations**  
 Vo Toys Removal Action  
 General Electric Company

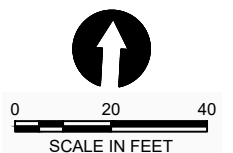




**SOURCE:** Floor plans compiled from CAD file entitled: "FIG05-REV071615" provided by AMEC Foster Wheeler, Inc. on March 31, 2016. Subsurface utilities and features compiled from CAD file entitled: "NUMBERED\_SITEMAP\_20101" provided by General Electric Company on March 3, 2016.  
**HORIZONTAL DATUM:** New Jersey State Plane, North American Datum 1983, U.S. Feet (NJ83F).  
**VERTICAL DATUM:** (None).

**LEGEND**  
 A,1 — — — BUILDING COLUMN LINE

- Site Perimeter Air Monitoring Location
- Upwind Site Perimeter Monitoring Location



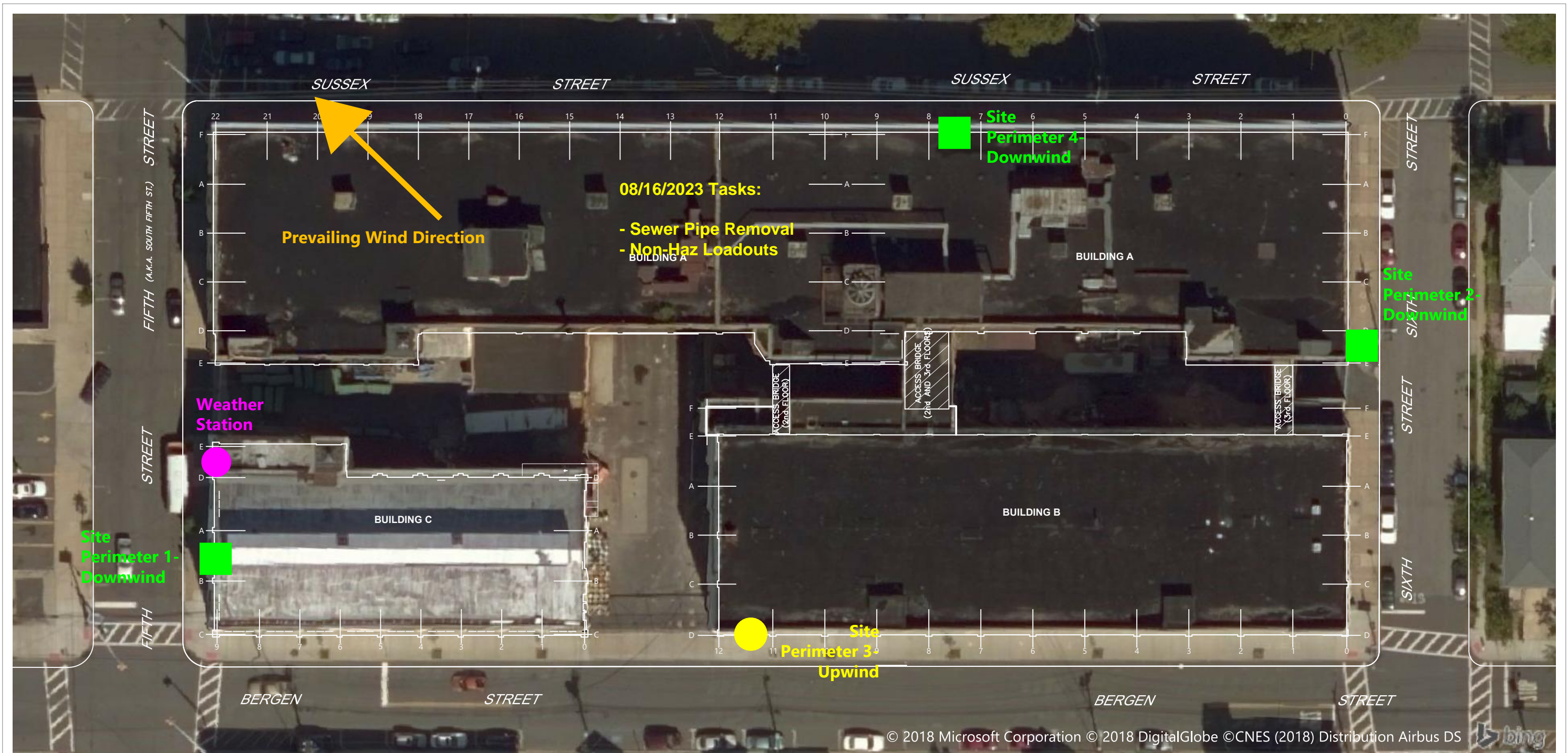
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**Figure SP-2**  
**08/15/2023**  
**Air Monitoring Station Locations**

Vo Toys Removal Action  
 General Electric Company

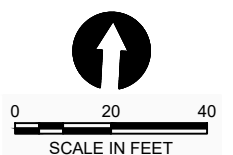




**SOURCE:** Floor plans compiled from CAD file entitled: "FIG05-REV071615" provided by AMEC Foster Wheeler, Inc. on March 31, 2016. Subsurface utilities and features compiled from CAD file entitled: "NUMBERED\_SITEMAP\_20101" provided by General Electric Company on March 3, 2016.  
**HORIZONTAL DATUM:** New Jersey State Plane, North American Datum 1983, U.S. Feet (NJ83F).  
**VERTICAL DATUM:** (None).

**LEGEND**  
 A,1 — — — BUILDING COLUMN LINE

- Site Perimeter Air Monitoring Location
- Upwind Site Perimeter Monitoring Location

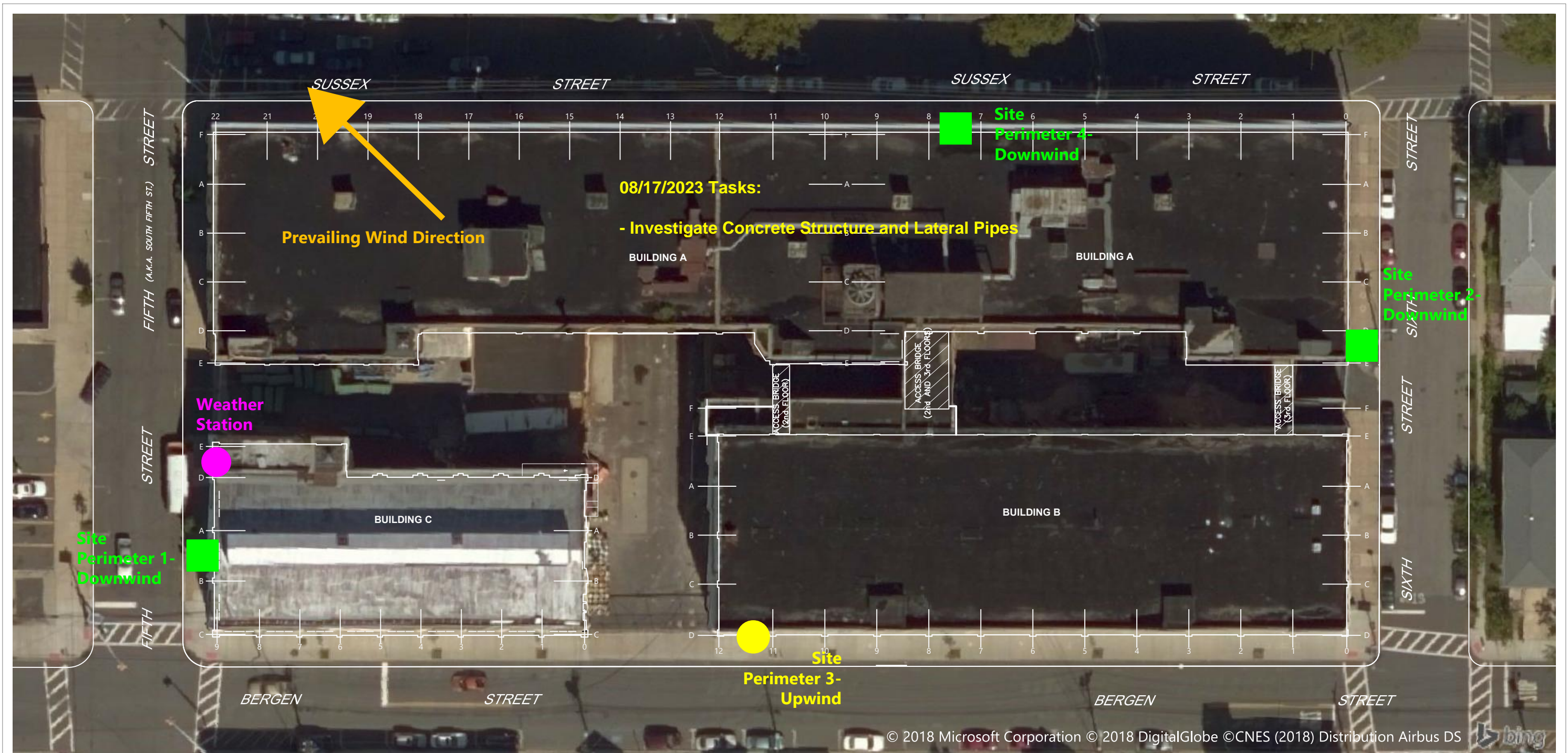


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**Figure SP-3**  
**08/16/2023**  
**Air Monitoring Station Locations**  
 Vo Toys Removal Action  
 General Electric Company

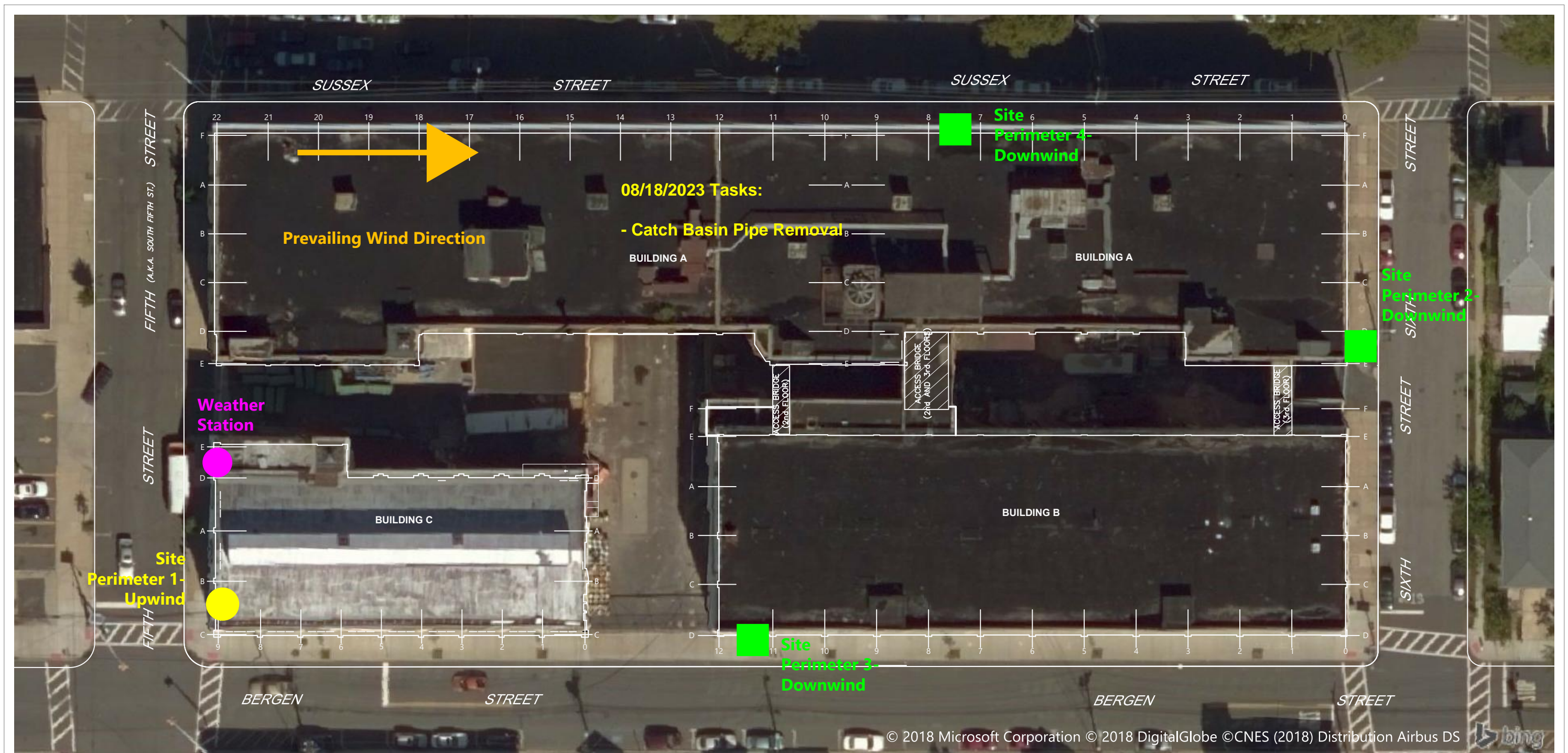




**SOURCE:** Floor plans compiled from CAD file entitled: "FIG05-REV071615" provided by AMEC Foster Wheeler, Inc. on March 31, 2016. Subsurface utilities and features compiled from CAD file entitled: "NUMBERED\_SITEMAP\_20101" provided by General Electric Company on March 3, 2016.  
**HORIZONTAL DATUM:** New Jersey State Plane, North American Datum 1983, U.S. Feet (NJ83F).  
**VERTICAL DATUM:** (None).

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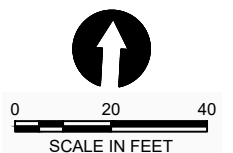
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**HORIZONTAL DATUM:** New Jersey State Plane, North American Datum 1983, U.S. Feet (NJ83F).

**VERTICAL DATUM:** (None).

**LEGEND**  
A,1 — — — BUILDING COLUMN LINE

- Site Perimeter Air Monitoring Location
- Upwind Site Perimeter Monitoring Location



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**Figure SP-5**  
**08/18/2023**  
**Air Monitoring Station Locations**

Vo Toys Removal Action  
General Electric Company