# SITE OBSERVATION REPORT – RAWP Implementation – Day 43

LANGAN

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|---|---|---|---|---|---|
| **PROJECT No.:** | 170390001 | **CLIENT:** | | **DATE:** | Tuesday, March 18, 2025 |
| **PROJECT:** | 141 3rd Street | | | **WEATHER:** | Sunny, 35-58 $^{0}$F<br>Wind: ENE @ 0.7 – 7.0 mph |
| **LOCATION:** | Brooklyn, New York | Third Street Owner LLC and 155 Third St., LLC | | **TIME:** | 7:00 a.m. – 5:30 p.m. |
| **BCP SITE ID:** | C224336 | | | **MONITOR:** | Savannah Walters |

| **EQUIPMENT:** | **PRESENT AT SITE:** |
|---|---|
| Hyundai HX520L Excavator<br>Komatsu PC490LC EXCAVATOR<br>LB46-410 Drilling Rig<br>LRB- 355.1 Drilling Rig | **Langan**: Savannah Walters<br>**Monadnock Construction (Construction Management)**: Dave Parlo<br>**New Leaf (Development/Drilling Contractor)**: Joe Sullivan, Jose Gomez<br>**NYSDEC:** Monica Pula (WSP) |

**OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:**

Langan was onsite to document implementation of the New York State Department of Environmental Conservation (NYSDEC)-approved Remedial Action Work Plan (RAWP) dated 12 December 2024, and Remedial Design Document (RDD) for In-Situ Stabilization/Solidification (ISS) dated 5 April 2024.

**Remedial Action Work Summary:**

*Work Activities Performed Onsite*

- New Leaf continued to remobilize/maintenance equipment and prepared the work area in the southeastern part of the site (ISS area).
- A representative from WSP conducted a site visit on behalf of the NYSDEC. No adverse conditions were noted as a result of the site visit and no further action was required.

*ISS Work Performed Onsite*

- New Leaf pre-excavated an about 10-foot-long by 10-foot-wide area to about 1.9 feet below grade surface (bgs) corresponding to elevation (el) 5.1± in the ISS area in preparation for mixing ISS column ISS-42. Excavated soil/fill was screened for odors, staining, and organic vapors using a Photoionization Detector (PID). Evidence of impacts was not observed, and the soil/fill was graded into the adjacent surrounding area to create a level surface for the drill rig.
- New Leaf continued ISS implementation and mixed column ISS-41 to about el -26.5±. Generated grout spoils were staged in the eastern/central part of the site on polyethylene sheeting at the end of the workday and sprayed with Atmos® AC-645 odor/vapor suppressing foam.

**Sampling**

- Amaracon collected 10 Quality Control (QC) samples of the ISS mix from column ISS-41. The samples were collected within the treatment interval at about el -15.33± to el – 16.33±. The samples will be analyzed for unconfined compressive strength and hydraulic permeability.

**Community Air Monitoring Plan (CAMP) Activities**

- Langan performed continuous air monitoring for volatile organic compounds (VOC) and particulate matter smaller than 10 microns in diameter (PM10) using two perimeter air monitoring stations at upwind and downwind locations. The PM10 and VOC action levels were not exceeded during the monitoring period. Recorded air monitoring data is presented on CAMP summary data sheet appended to the end of this Daily Field Report.

**Material Tracking**

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

| Material Import Summary | | | | |
|---|---|---|---|---|
| **Facility** | **NYSDEC Approved Quantity** | **Imported** | **Today** | **Total** |
| **Tilcon - Haverstraw<br>Haverstraw, NY<br>ASTM #3 Virgin Stone (1.5-Inch)** | 400 CY (560 tons) | **No. Loads** | 0 | **4** |
| | | **Quantity (tons)** | 0 | **89.95** |
| **Impact Materials Jersey City (IMJC)<br>Jersey City, NJ<br>0.75-inch Stone** | 2,000 CY<br>(2,800 tons) | **No. Loads** | 0 | **0** |
| | | **Quantity (tons)** | 0 | **0** |
| **IMJC<br>Jersey City, NJ<br>1.5-inch Stone** | 400 CY (560 tons) | **No. Loads** | 0 | **2** |
| | | **Quantity (tons)** | 0 | **49.65** |

Drums

- One 55-gallon drum containing purged groundwater and dense non-aqueous phase liquid (DNAPL) is staged in the southern part of the site.
- One 55-gallon drum containing truck wash water is staged in the central part of the site.
- One 55-gallon drum containing purged groundwater is staged in the southern part of the site.

**Anticipated Activities**

- New Leaf will continue ISS implementation.

**SITE PHOTOGRAPHS:**

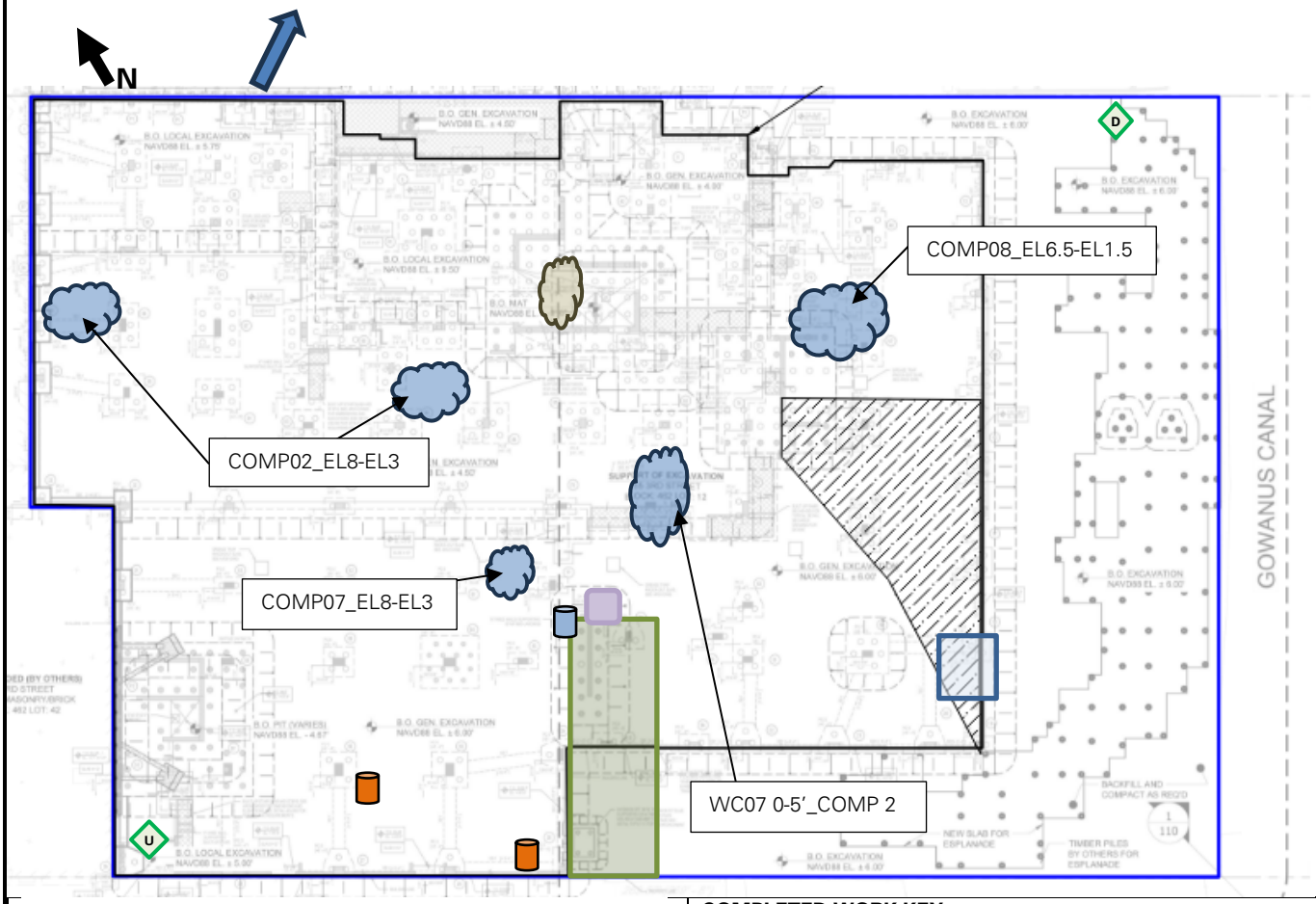


**Photo 1:** New Leaf mixing ISS-41 and spraying Atmos® AC-645 odor/vapor suppressing foam in the ISS area (facing south)




**Photo 2:** Amaracon preparing QC samples for the mix from ISS column ISS-41 (facing west)

**FIGURE 1 - SITE MAP:**




**LEGEND:**

- APPROXIMATE SITE BOUNDARY
- PROPOSED BUILDING FOOTPRINT
- APPROXIMATE PROPOSED EXTENT OF ISS AREA TO BE EXCAVATED TO 4 FEET BGS (EL. 3.5± FEET NAVD88)

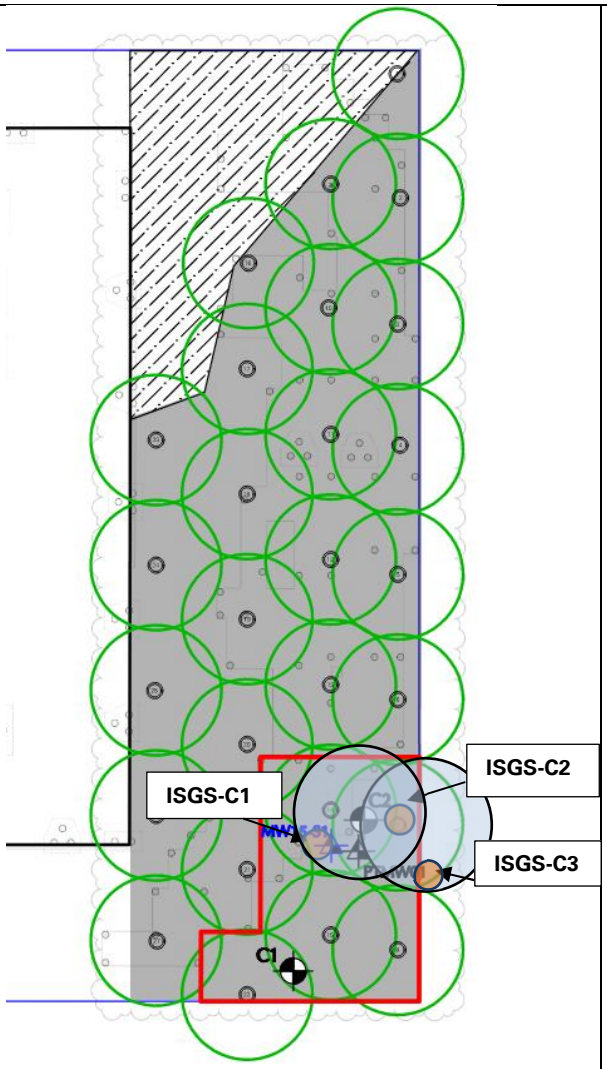
**COMPLETED WORK KEY**

- Approximate work area
- Approximate location of upwind CAMP station
- Approximate location of downwind CAMP station
- Approximate location of drum
- Approximate location of truck wash drum
- Approximate wind direction
- Stockpiled soil/fill
- Stockpiled C&D debris
- Stockpiled imported stone
- Temporary stabilized construction entrance
- Truck wash catch basin

Base map includes Figure 5 – Pre-ISS Excavation Plan from the NYSDEC-approved RDD for ISS, prepared by Langan Engineering, dated 4/5/2024

**FIGURE 2 - ISGS PROGRESS MAP**

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**LEGEND:**

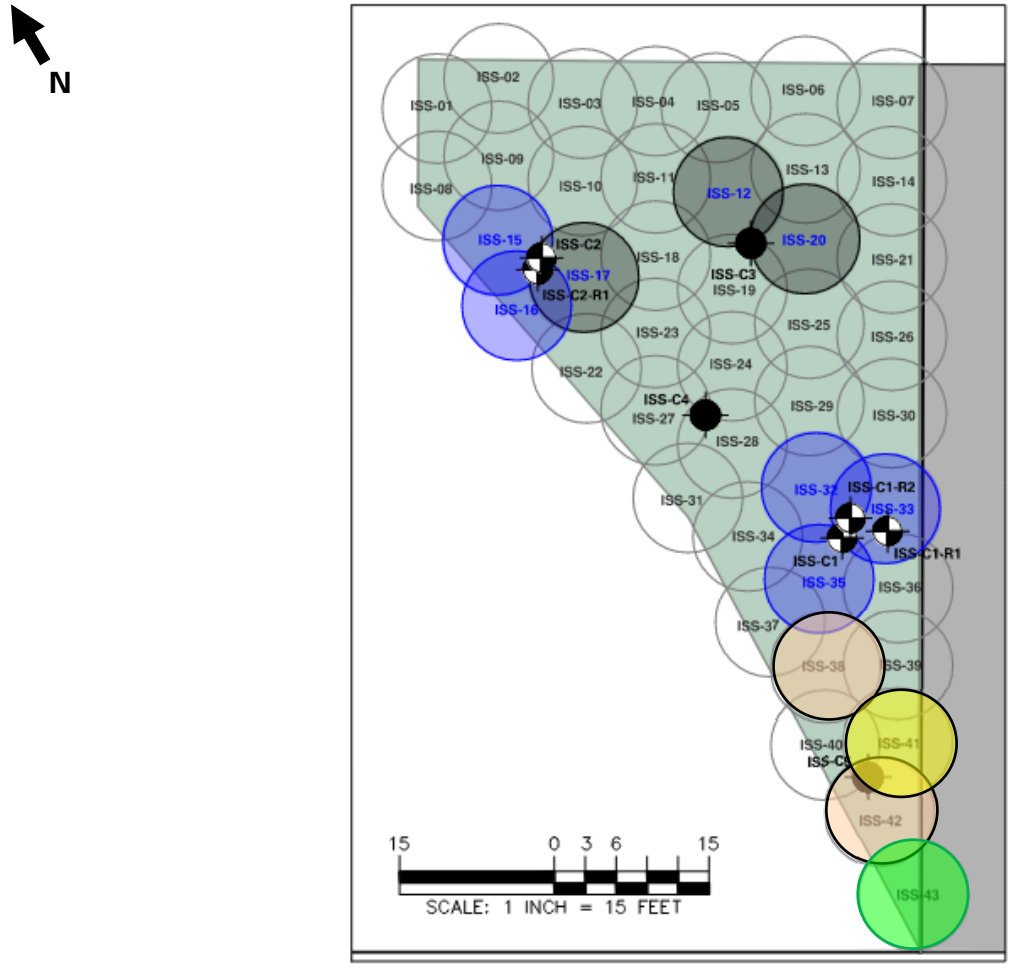
- APPROXIMATE SITE BOUNDARY
- PROPOSED BUILDING FOOTPRINT
- APPROXIMATE PROPOSED EXTENT OF ISGS AREA BETWEEN EL. -19± TO EL. -23±
- APPROXIMATE PROPOSED EXTENT OF ISGS SUPPORT/LAYDOWN AREA
- APPROXIMATE PROPOSED TEMPORARY DIRECT-PUSH INJECTION POINT LOCATION
- APPROXIMATE ROI (13-FOOT RADIUS, 25-FOOT SPACING)
- C1 — APPROXIMATE PROPOSED PILOT TEST QA/QC CORE LOCATION
- APPROXIMATE ISGS PILOT TEST AREA
- MW15-S1 — EXISTING MONITORING WELL LOCATION
- PTWM01 — PROPOSED MONITORING WELL LOCATION

**COMPLETED WORK KEY**

- ISGS injection point completed today
- ISGS injection point previously completed
- Core location completed today
- Core location previously completed

Base map includes Figure 2 – Project Implementation Plan In-Situ Stabilization/Solidification, prepared by Roux Environmental and Geology, D.P.C, dated October 2024

**FIGURE 3 - ISS PROGRESS MAP:**




**LEGEND:**

- APPROXIMATE SITE BOUNDARY
- PROPOSED BUILDING FOOTPRINT
- APPROXIMATE EXTENT OF ISS SUPPORT/LAYDOWN AREA
- APPROXIMATE EXTENT OF ISS IMPLEMENTATION AREA
- ISS-C1 APPROXIMATE COMPLETED CORE LOCATION
- ISS-C3 APPROXIMATE PROPOSED CORE LOCATION

**COMPLETED WORK KEY**

- Completed ISS Pilot Test Columns
- Columns to be re-mixed
- Completed Full-Scale ISS Columns
- ISS Columns mixed today
- Columns to be mixed tomorrow
- Collected core today
- Previously collected sample location

Base map includes Figure 2 – ISS Plan from the ISS Pilot Test Results Letter, prepared by Langan, dated March 5, 2025

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## TABLE 1 - ISS PROGRESS TABLE:

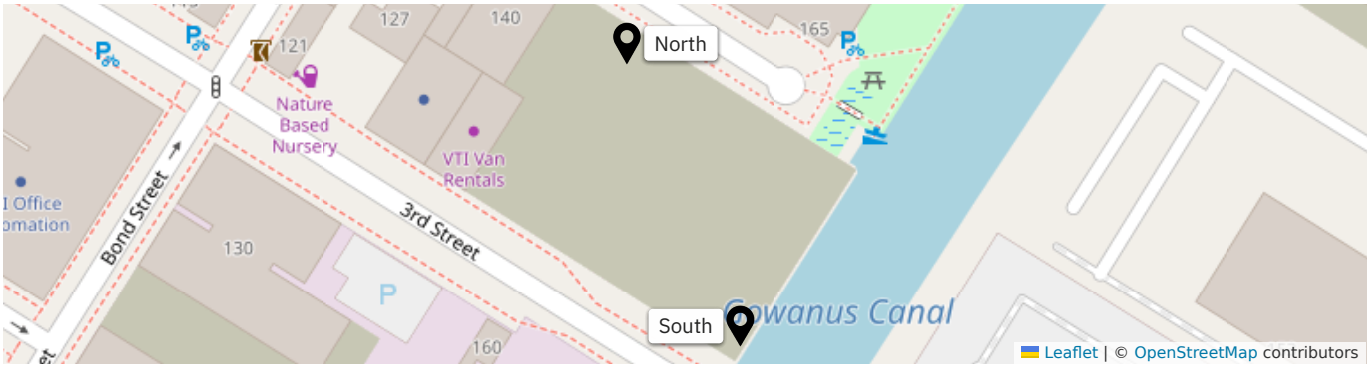
| ISS Column ID | Coordinates (N, E) | Column Diameter (ft) | No. of Column Passes | Bottom Elevation of Column | Approximate Volume Treated (CY) | Mixing Time Per Interval (min/ft) | Reagent Additional Per Interval (kg) | Injection Pressure (psi) | Injection Rate (gal/min) | Rotational Speed (rpm) | Advance Rate (ft/min) | Sampled |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pilot Study** | | | | | | | | | | | | |
| ISS-20 | 98.87, 221.23 | 10.6 | N/A | -26.5± | N/A | N/A | N/A | 50 | 6.5 | 30 | 3.75 | Yes |
| ISS-12 | 103.418, 213.788 | 10.6 | N/A | -21.5± | N/A | N/A | N/A | N/A | N/A | 15 | 1.4 | Yes |
| ISS-16 | 92.59, 193.29 | 10.6 | 1 | -26.5± | 316 | 5 | 948.78 | N/A | N/A | 17 | 0.1 | Yes |
| ISS-17 | 95.14, 199.81 | 10.6 | 1 | -26.5± | 402 | 10 | 841.75 | N/A | N/A | 18 | 0.19 | Yes |
| ISS-15 | 98.75, 191.97 | 10.6 | 1 | -26.5± | 402 | 5 | 765.22 | N/A | N/A | 16 | 0.28 | Yes |
| ISS-35 | 65.47, 222.59 | 10.6 | 2 | -26.5± | 375 | 7 | 871.43 | N/A | N/A | 16 | 0.36 | Yes |
| ISS-32 | 74.47, 222.33 | 10.6 | 2 | -26.5± | 339 | 4 | 841.75 | N/A | N/A | 16 | 0.25 | Yes |
| ISS-33 | 74.47, 229.01 | 10.6 | 2 | -26.5± | 402 | 11 | 765.22 | N/A | N/A | 16 | 0.17 | Yes |
| **Full-Scale Implementation** | | | | | | | | | | | | |
| ISS-41 | 49.74, 229.96 | 10.6 | 2 | -26.5± | 360 | 8.1* | 890* | 19* | 30* | 13* | 0.18* | Yes |
| ISS-43 | 35.19, 230.66 | 10.6 | 2 | -26.5± | 382 | 8.1* | 781.47* | 8* | 45* | 14* | 0.26* | No |

1. Coordinates were measured in northing and eastings from the project datum.
2. * = Estimated parameters based on field observations. Exact parameters will be updated (as needed) once received.

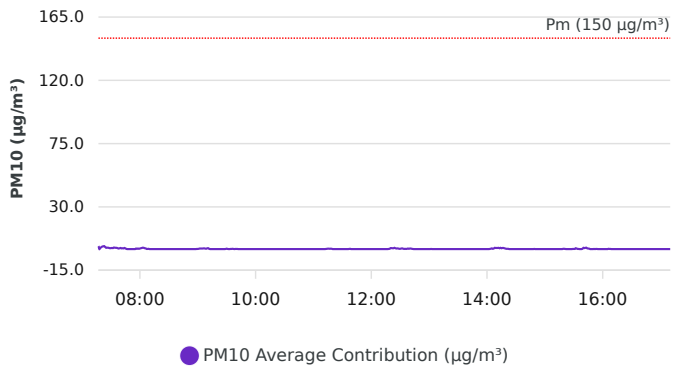
| LANGAN | Air Monitoring Report | 170390002 - 155 3rd St Brooklyn | |
|---|---|---|---|
| | | Report Period | |
| | | From: | 3/18/2025 06:00 |
| | | To: | 3/18/2025 18:00 |
| | | PM10 Action Level: | 150 µg/m³ |
| | | VOC Action Level: | 5 ppm |

| Daily Environmental Summary | Temp (°F) | Relative Humidity (%) | Barometer (hPa) | Windspeed (mph) | Prevailing wind direction |
|---|---|---|---|---|---|
| 3/18/2025 | - | - | - | 0.7-7 | WSW |

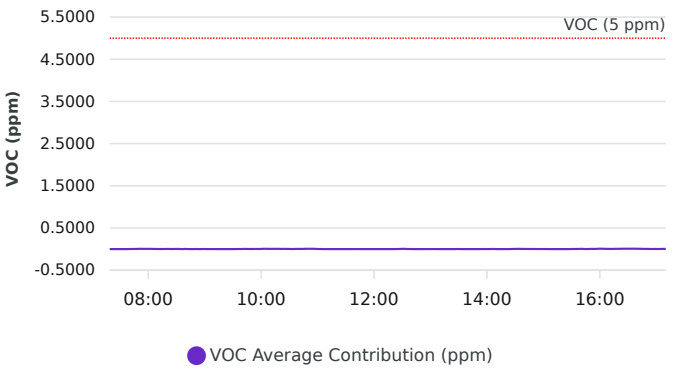
| Daily Monitoring Summary | PM10 (µg/m³) | Time | VOC (ppm) | Time |
|---|---|---|---|---|
| Min Contribution (15 min avg.) - 3/18/2025 | 0.0 | 07:18 | 0.0000 | 07:19 |
| Max Contribution (15 min avg.) - 3/18/2025 | 2.1 | 07:17 | 0.0100 | 16:00 |



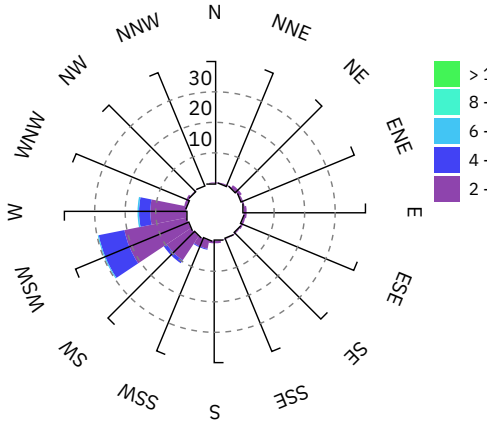

PM10 Average Contribution (µg/m³)




VOC Average Contribution (ppm)




Contribution wind rose (mph)




170390002 - 155 3rd St Brooklyn
Report date: 03/18/2025
A PM10 and VOC negative number filter has been applied to the averaged contribution data

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