

DAILY FIELD REPORT 140

Prepared By: LANGAN

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

BCP Project No:	C231153	Date:	December 11, 2023
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Project Name:	Kasser Scrap Metal and Rector Cleaners Site	Time:	7:00 am to 4:30 pm
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Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan)	Langan Field Personnel: Caitlyn Dempsey (Environmental)
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Construction Manager: Consigli Construction Co., Inc. (Consigli)

Foundation Contractor: Urban Foundation/Engineering (Urban)
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Work Activities Performed:

- Urban excavated an about 20-foot-long by 10-foot-wide area around existing caissons from about 16 feet below grade surface (bgs) to about 20 feet bgs in the eastern part of grid WC03_15-20 for the foundation core mat. Excavated soil/fill was stockpiled in the western part of WC02 pending off-site disposal.
- Urban excavated an about 10-foot-long by 25-foot-wide area around existing caissons from about 15 feet bgs to about 20 feet bgs in the southern part of grid WC03_15-20 for the foundation core mat. Excavated soil/fill was stockpiled in the western part of WC02 pending off-site disposal.
- Urban excavated an about 5-foot-long by 5-foot-wide area to about 5 feet bgs in the northern part of grid WC05_0-5 for equipment mobilization. Excavated soil/fill was stockpiled in the western part of WC02 pending off-site disposal.
- Urban graded an approximate 40-foot-long by 30-foot-wide area along in the southern part of WC02 to prepare for equipment mobilization.
- Urban backfilled imported 0.75-inch stone in an about 40-foot-long by 20-foot-wide area in the southern part of grid WC03.
- Urban demolished and removed concrete from existing caissons in the south-central part of waste characterization grid WC03 to prepare for equipment mobilization.
- Urban continued installing waterproofing/vapor barrier membranes (GCP Preprufe® 300R and related products) in the northeastern part of the site. Waterproofing/vapor barrier installation observation and documentation is to verify general conformance with specifications and contract documents.

Material Tracking:

- The following soil/fill was exported from the site:
 - 9 loads of soil/fill from waste characterization grids WC02_10-15, WC02_15-20, WC03_10-15, WC03_15-20, WC04_0-5 and/or WC05_0-5 were exported for off-site disposal at the Clean Earth of Carteret LLC facility in Carteret, NJ.
- No material was imported to the site.

Materials Export Summary								
Facility Name	<i>Bayshore Soil Management, LLC</i>		<i>Clean Earth of Carteret, LLC</i>		<i>PPark NJ</i>		<i>Faztec Solutions</i>	
Location	<i>Keasbey, NJ</i>		<i>Carteret, NJ</i>		<i>Prospect Park, NJ</i>		<i>Staten Island, NY</i>	
Type of Waste	<i>Non-hazardous Soil</i>		<i>Non-hazardous Soil</i>		<i>Non-hazardous Soil</i>		<i>C&D</i>	
Today	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approximate Volume (CY)
	0	-	9	180	0	-	0	-
Total	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approximate Volume (CY)
	132	2,600	213	4,140	0	-	15	300

Materials Export Summary		
Facility Name	<i>Dale Transfer Corp.</i>	
Location	<i>West Babylon, NY</i>	
Type of Waste	<i>Concrete</i>	
Today	Number of Loads	Approx. Volume (CY)
	0	-
Total	Number of Loads	Approx. Volume (CY)
	2	40

Materials Import Summary								
Facility Name	<i>Greenpoint Quarry / North Shore Terminal</i>		<i>Stavola Bound Brook / North Shore Terminal</i>					
Location	<i>Staten Island, NY</i>		<i>Staten Island, NY</i>					
Type of Material	<i>ASTM57 0.75-inch Stone</i>		<i>ASTM2 2.5-inch Stone</i>					
Today	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approximate Volume (CY)
	0	-	0	-	0	-	0	-
Total	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approximate Volume (CY)
	0	-	0	-	0	-	0	-

Samples Collected:

- Langan collected one post-excavation confirmation endpoint sample (sample IDs EPB09_eI_N15) in the central part of the site to be analyzed for VOCs, SVOCs (including 1,4-dioxane via Method 8270-SIM), PCBs, pesticides, herbicides, metals (including trivalent and hex chromium), total cyanide, and PFAS (Method 1633).

Air Monitoring:

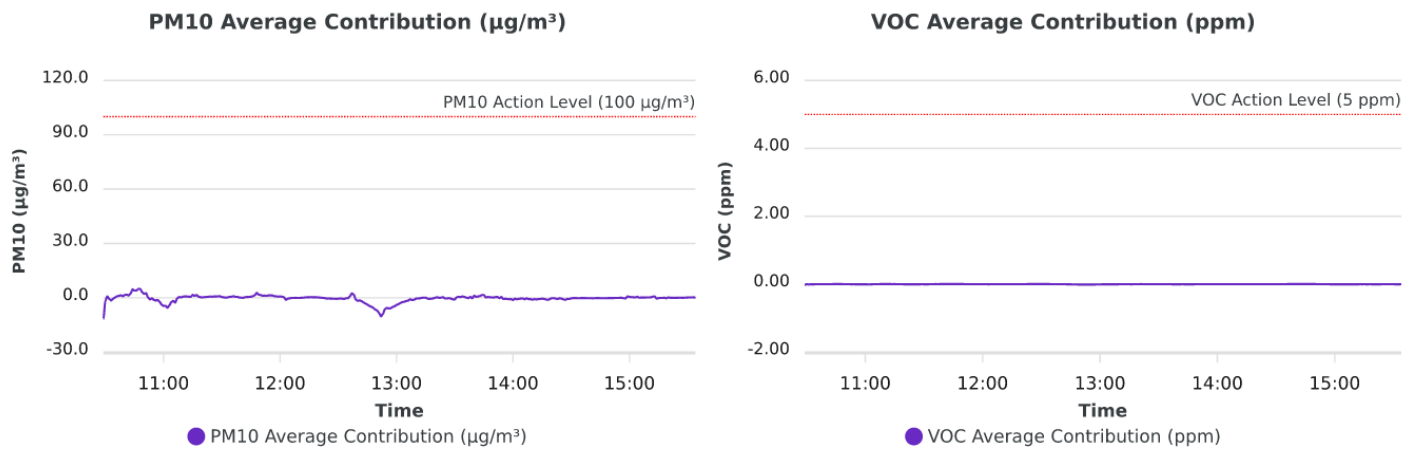
The 15-minute average site contributions for particulates and volatile organic compounds (VOCs) are calculated by subtracting the upwind readings from the downwind readings. A true action level exceedance is realized when this net result exceeds 100 µg/m³ for particulates and 5 ppm for organic vapors. No particulates (PM10) or organic vapors exceeded the 15-minute average site contribution action level of 100 µg/m³ or 5 ppm, respectively, on this day.

- The Community Air Monitoring Program (CAMP) was not implemented until 10:29 due to sustained precipitation throughout the morning.

Particulate Monitoring (µg/m ³)		Organic Vapor Monitoring (ppm)	
Daily Background	25.7	Daily Background	0.02
PM10 Average Site Contribution (Minimum)	-11.9	VOC Average Site Contribution (Minimum)	-0.02
PM10 Average Site Contribution (Maximum)	4.9	VOC Average Site Contribution (Maximum)	0.01

µg/m³: micrograms per cubic meter.

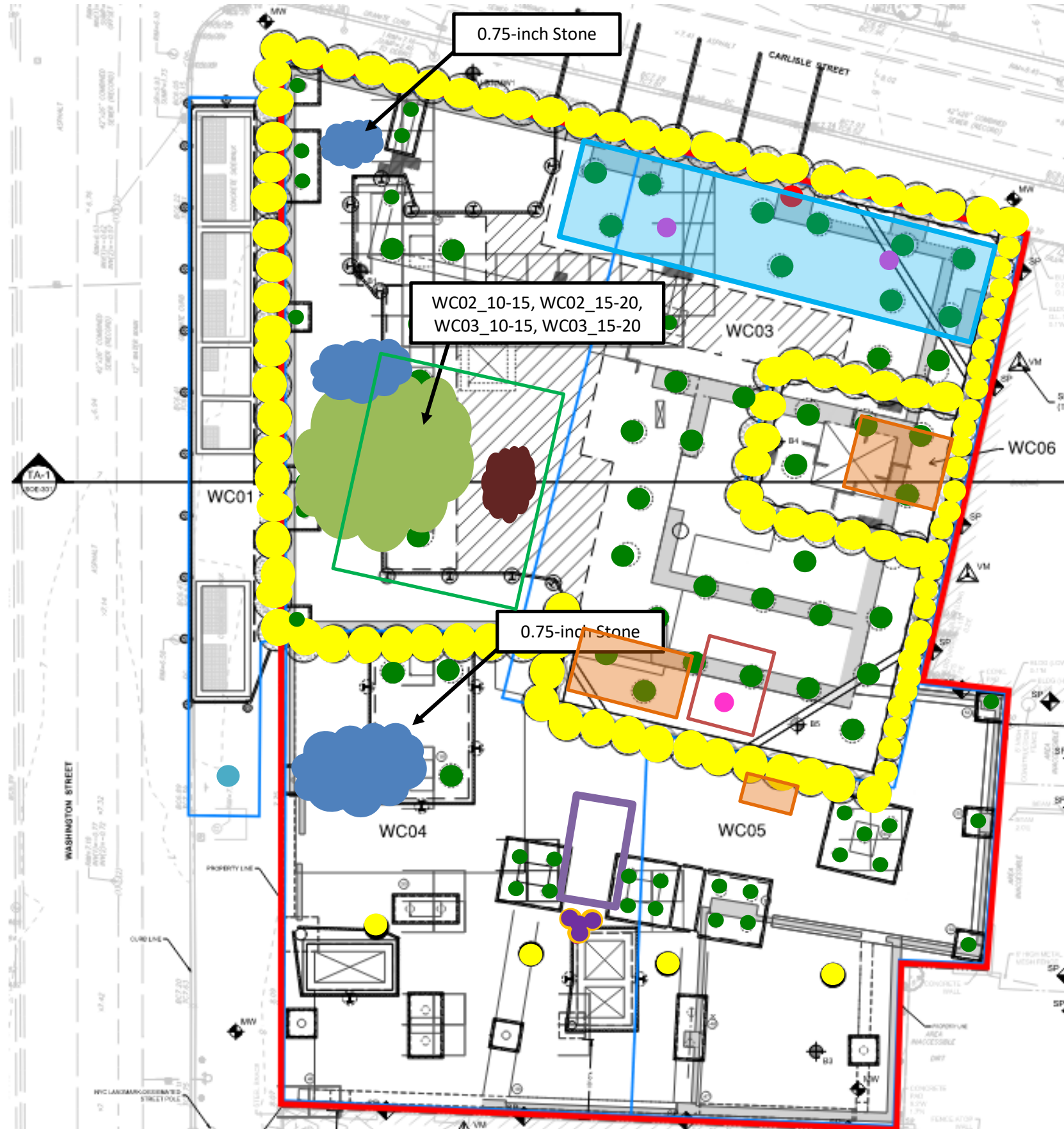
ppm: parts per million.



Planned Activities:

- Urban will continue excavation throughout the site to assist in the advancement of caissons, soldier piles and foundation mat.

SITE PLAN



- Site Boundary**
- Waste Characterization Grid Boundary**
- **CAMP station 1**
- **CAMP station 2**
- **Stockpile – Soil (no impacts)**
- **Stockpile – C&D**
- **Stockpile – Timber Piles**
- Approximate Location of Excavation**
- Approximate Area of Grading**
- Approximate Backfill Location**
- **Completed Soil-Mix Column**
- **Completed Caisson Casing**
- **Completed Caisson**
- **Reinstalled Soil-Mix Column as part of the In-Situ Stabilization of NAPL-contaminated Soil**
- **Soil-Mix Core Advanced**
- **Documentation Endpoint Sample**
- Completed Waterproofing Installation**
- Approximate Location of the Former UST**

Note: Waste characterization grid areas were developed by PT Consultants and Urban and is shown on this site plan for reference only.

Photo Log

Photo 1: View of Urban excavating soil/fill in WC03_15-20 (facing southeast).



Photo 2: View of Urban stockpiling soil/fill in the western part of the site (facing east).



Photo 3: View Urban removing concrete from existing caissons in the central part of the site (facing northwest).

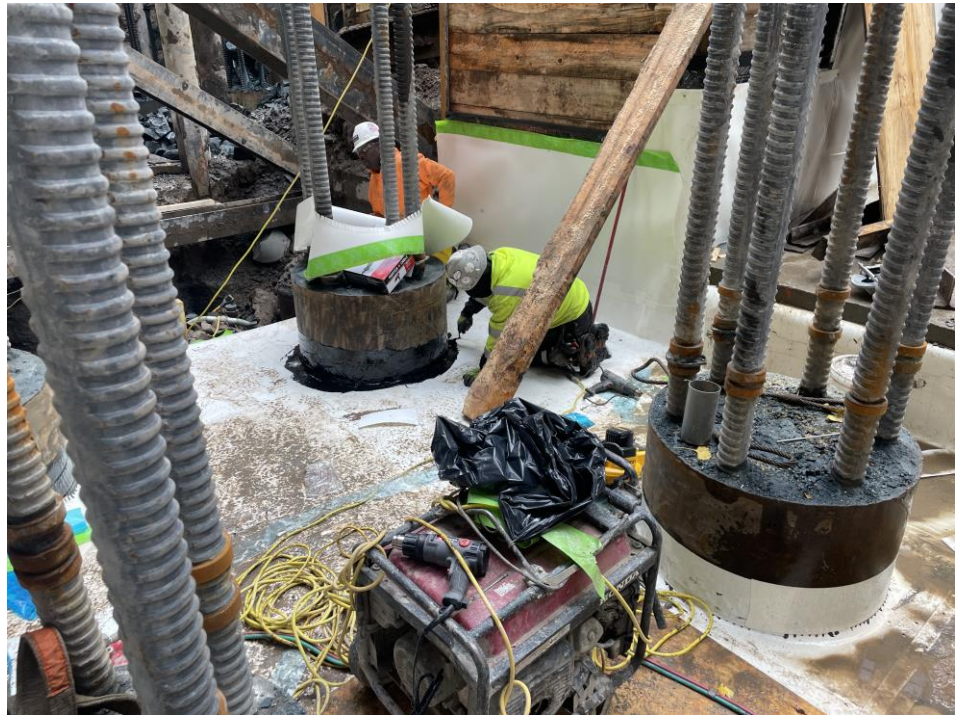


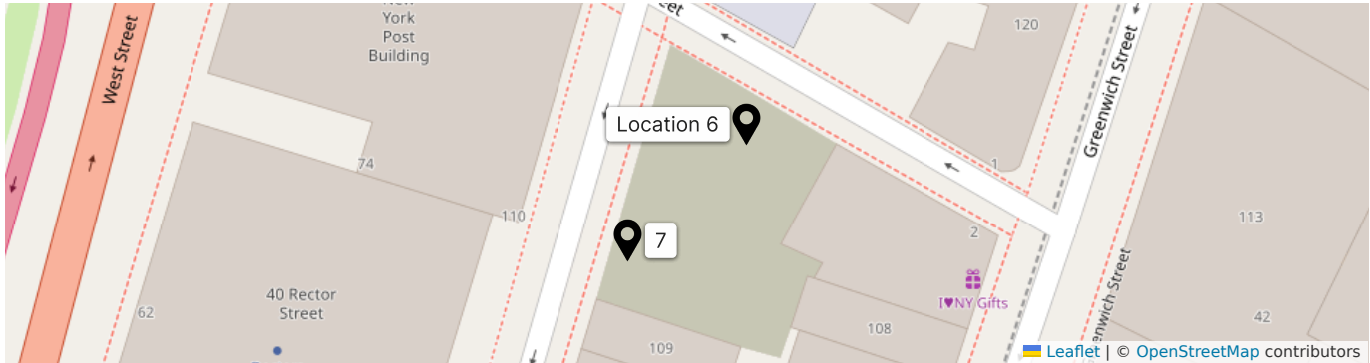
Photo 4: View of the site entrance/exit on Washington Street at the end of the workday (facing north).



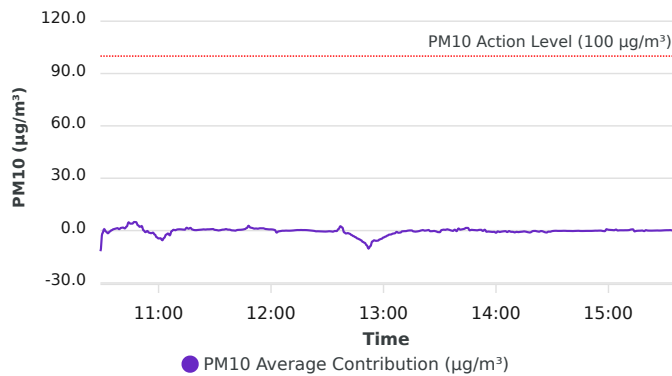
LANGAN	Air Monitoring Report	170695201 - 111 Washington St	
		Report Period	
		From:	12/11/2023 06:00
		To:	12/11/2023 19:00
		PM10 Action Level:	100.0 $\mu\text{g}/\text{m}^3$
VOC Action Level:	5.00 ppm		

Daily Environmental Summary	Windspeed (mph)	Prevailing wind direction
12/11/2023	0.6-2.9	SSE

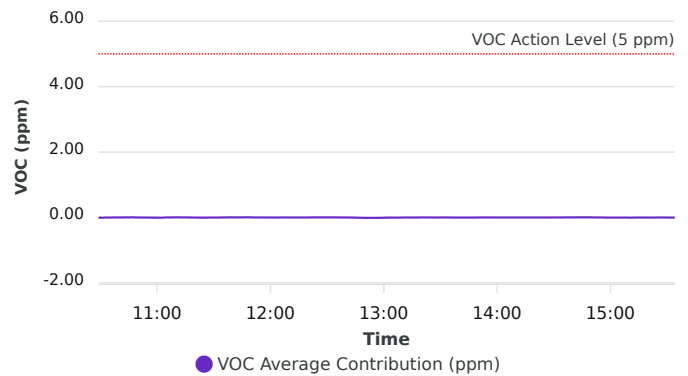
Daily Monitoring Summary	PM10 ($\mu\text{g}/\text{m}^3$)	Time	VOC (ppm)	Time
Min Contribution (15 min avg.) - 12/11/2023	-11.8	10:29	-0.02	10:29
Max Contribution (15 min avg.) - 12/11/2023	4.9	10:47	0.01	11:47



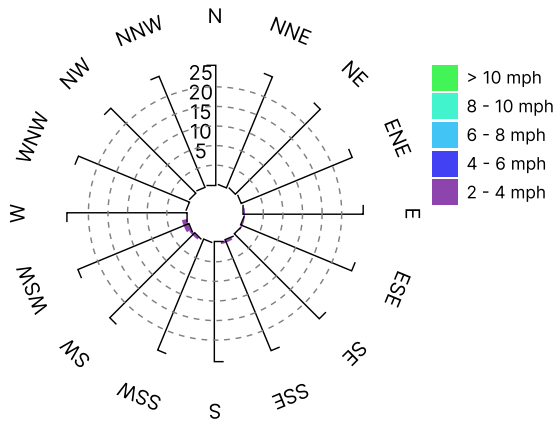
PM10 Average Contribution ($\mu\text{g}/\text{m}^3$)



VOC Average Contribution (ppm)



Contribution wind rose (mph)



Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
12/11/2023 10:24:00							1.2	SW
12/11/2023 10:25:00							1.1	E
12/11/2023 10:26:00							1.0	S
12/11/2023 10:27:00							1.2	WSW
12/11/2023 10:28:00							1.1	S
12/11/2023 10:29:00	25.7	13.9	-11.8	0.02	0.00	-0.02	1.2	NNE
12/11/2023 10:30:00	19.1	17.5	-1.6	0.01	0.01	0.00	1.2	WSW
12/11/2023 10:31:00	13.9	14.7	0.8	0.02	0.01	-0.01	1.2	E
12/11/2023 10:32:00	12.3	11.7	-0.6	0.01	0.01	0.00	1.2	SW
12/11/2023 10:33:00	11.3	9.7	-1.5	0.01	0.01	0.00	1.1	SSW
12/11/2023 10:34:00	9.7	9.2	-0.5	0.01	0.01	0.00	1.1	ESE
12/11/2023 10:35:00	8.4	8.7	0.2	0.01	0.01	0.00	1.1	ESE
12/11/2023 10:36:00	7.6	8.4	0.8	0.01	0.01	0.00	1.1	E
12/11/2023 10:37:00	6.9	8.0	1.1	0.01	0.01	0.00	1.0	E
12/11/2023 10:38:00	6.4	7.8	1.4	0.01	0.01	0.00	1.0	N
12/11/2023 10:39:00	6.3	7.2	0.8	0.01	0.01	0.00	1.0	SW
12/11/2023 10:40:00	6.0	7.5	1.5	0.01	0.01	0.00	1.0	NNE
12/11/2023 10:41:00	5.7	7.4	1.7	0.01	0.01	0.00	1.1	E
12/11/2023 10:42:00	5.7	7.0	1.3	0.01	0.01	0.00	1.0	SSW
12/11/2023 10:43:00	5.5	7.8	2.3	0.01	0.01	0.00	1.0	ESE
12/11/2023 10:44:00	3.9	8.6	4.7	0.00	0.01	0.01	1.0	ESE
12/11/2023 10:45:00	3.6	7.6	4.0	0.01	0.01	0.00	1.0	WSW
12/11/2023 10:46:00	3.6	7.6	4.0	0.00	0.01	0.01	1.0	ESE
12/11/2023 10:47:00	3.1	8.1	4.9	0.00	0.01	0.01	1.0	ESE
12/11/2023 10:48:00	3.2	8.0	4.8	0.01	0.01	0.00	1.1	S
12/11/2023 10:49:00	4.7	7.7	3.0	0.01	0.01	0.00	1.1	W
12/11/2023 10:50:00	5.3	7.5	2.2	0.01	0.01	0.00	1.1	SSE
12/11/2023 10:51:00	5.4	8.0	2.6	0.01	0.01	0.00	1.1	NNE
12/11/2023 10:52:00	7.6	7.7	0.1	0.01	0.01	0.00	1.1	S
12/11/2023 10:53:00	8.3	7.4	-0.9	0.01	0.01	0.00	1.1	SSW
12/11/2023 10:54:00	8.0	7.7	-0.3	0.01	0.01	0.00	1.1	SE
12/11/2023 10:55:00	8.3	7.1	-1.2	0.01	0.01	0.00	1.1	SSW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
12/11/2023 10:56:00	8.3	6.8	-1.5	0.01	0.01	-0.01	1.1	W
12/11/2023 10:57:00	8.0	6.8	-1.2	0.01	0.01	0.00	1.1	ESE
12/11/2023 10:58:00	8.0	5.7	-2.3	0.01	0.01	0.00	1.2	E
12/11/2023 10:59:00	7.9	4.1	-3.8	0.01	0.01	-0.01	1.1	NW
12/11/2023 11:00:00	8.2	3.7	-4.5	0.01	0.01	-0.01	1.1	WSW
12/11/2023 11:01:00	8.1	3.7	-4.4	0.01	0.01	-0.01	1.1	E
12/11/2023 11:02:00	8.6	3.0	-5.5	0.01	0.01	-0.01	1.1	SW
12/11/2023 11:03:00	8.1	3.9	-4.2	0.01	0.01	0.00	1.0	E
12/11/2023 11:04:00	6.6	4.3	-2.4	0.01	0.01	0.00	1.1	E
12/11/2023 11:05:00	6.0	4.3	-1.7	0.01	0.01	0.00	1.1	ESE
12/11/2023 11:06:00	6.2	3.5	-2.7	0.01	0.01	0.00	1.1	WNW
12/11/2023 11:07:00	4.0	3.7	-0.3	0.00	0.01	0.00	1.1	E
12/11/2023 11:08:00	3.2	3.7	0.4	0.00	0.01	0.00	1.1	ESE
12/11/2023 11:09:00	3.2	3.4	0.2	0.00	0.01	0.00	1.1	E
12/11/2023 11:10:00	2.8	3.5	0.7	0.00	0.01	0.00	1.1	E
12/11/2023 11:11:00	2.7	3.5	0.7	0.00	0.01	0.01	1.1	ENE
12/11/2023 11:12:00	2.7	3.4	0.7	0.00	0.01	0.00	1.1	SW
12/11/2023 11:13:00	2.7	3.3	0.6	0.00	0.01	0.00	1.2	S
12/11/2023 11:14:00	2.8	3.3	0.5	0.00	0.01	0.00	1.2	WSW
12/11/2023 11:15:00	2.0	3.6	1.6	0.00	0.01	0.00	1.2	ESE
12/11/2023 11:16:00	2.1	3.2	1.1	0.00	0.01	0.00	1.2	SW
12/11/2023 11:17:00	1.6	3.2	1.5	0.00	0.01	0.00	1.3	WSW
12/11/2023 11:18:00	1.6	2.2	0.6	0.00	0.00	0.00	1.3	W
12/11/2023 11:19:00	1.5	1.8	0.3	0.01	0.00	0.00	1.3	SW
12/11/2023 11:20:00	1.5	1.7	0.2	0.01	0.00	0.00	1.3	WNW
12/11/2023 11:21:00	1.3	1.6	0.4	0.01	0.00	0.00	1.3	SW
12/11/2023 11:22:00	1.2	1.7	0.5	0.01	0.00	0.00	1.3	ENE
12/11/2023 11:23:00	1.2	1.8	0.6	0.01	0.00	0.00	1.4	W
12/11/2023 11:24:00	1.3	2.0	0.7	0.01	0.00	-0.01	1.3	SW
12/11/2023 11:25:00	1.4	2.0	0.6	0.01	0.00	0.00	1.3	ESE
12/11/2023 11:26:00	1.4	2.1	0.7	0.01	0.00	0.00	1.4	SE
12/11/2023 11:27:00	1.4	2.1	0.7	0.01	0.00	0.00	1.3	SSE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
12/11/2023 11:28:00	1.2	2.0	0.8	0.01	0.01	0.00	1.3	E
12/11/2023 11:29:00	1.2	2.1	0.9	0.01	0.01	0.00	1.3	E
12/11/2023 11:30:00	1.3	1.7	0.4	0.01	0.01	0.00	1.3	SW
12/11/2023 11:31:00	1.4	1.7	0.3	0.01	0.01	0.00	1.3	SSW
12/11/2023 11:32:00	1.7	1.7	0.1	0.01	0.01	0.00	1.3	SW
12/11/2023 11:33:00	1.8	2.0	0.2	0.01	0.01	0.00	1.4	E
12/11/2023 11:34:00	1.8	2.3	0.5	0.01	0.01	0.00	1.4	E
12/11/2023 11:35:00	1.8	2.4	0.6	0.01	0.01	0.00	1.4	ENE
12/11/2023 11:36:00	1.8	2.6	0.9	0.01	0.01	0.00	1.4	E
12/11/2023 11:37:00	1.9	2.4	0.5	0.01	0.01	0.00	1.4	WSW
12/11/2023 11:38:00	1.8	2.4	0.5	0.00	0.01	0.00	1.4	SE
12/11/2023 11:39:00	1.9	2.0	0.1	0.00	0.01	0.01	1.4	ESE
12/11/2023 11:40:00	1.8	1.9	0.1	0.00	0.01	0.01	1.4	SE
12/11/2023 11:41:00	1.9	1.8	0.0	0.00	0.01	0.00	1.5	N
12/11/2023 11:42:00	1.9	2.2	0.3	0.00	0.01	0.01	1.5	N
12/11/2023 11:43:00	1.9	2.3	0.4	0.00	0.01	0.00	1.5	E
12/11/2023 11:44:00	1.9	2.4	0.5	0.00	0.01	0.00	1.5	SE
12/11/2023 11:45:00	1.9	2.5	0.6	0.00	0.01	0.00	1.5	SW
12/11/2023 11:46:00	1.8	2.6	0.8	0.00	0.01	0.01	1.4	E
12/11/2023 11:47:00	1.6	3.0	1.4	0.00	0.01	0.01	1.3	E
12/11/2023 11:48:00	1.5	4.2	2.7	0.00	0.01	0.01	1.3	SE
12/11/2023 11:49:00	2.2	3.9	1.7	0.00	0.01	0.01	1.3	WSW
12/11/2023 11:50:00	2.4	3.9	1.5	0.00	0.01	0.00	1.3	SW
12/11/2023 11:51:00	2.5	3.6	1.1	0.00	0.00	0.00	1.3	WSW
12/11/2023 11:52:00	2.4	3.6	1.2	0.00	0.00	0.00	1.2	WSW
12/11/2023 11:53:00	2.4	3.5	1.1	0.00	0.00	0.00	1.2	ESE
12/11/2023 11:54:00	2.3	3.6	1.3	0.00	0.00	0.00	1.2	WSW
12/11/2023 11:55:00	2.2	3.5	1.3	0.00	0.00	0.00	1.2	ESE
12/11/2023 11:56:00	2.1	3.4	1.3	0.00	0.00	0.00	1.2	SW
12/11/2023 11:57:00	2.0	3.0	0.9	0.00	0.00	0.00	1.2	ENE
12/11/2023 11:58:00	2.0	2.8	0.8	0.00	0.00	0.00	1.2	SE
12/11/2023 11:59:00	1.9	2.6	0.7	0.00	0.00	0.00	1.2	ESE

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
12/11/2023 12:00:00	1.8	2.5	0.7	0.00	0.00	0.00	1.2	ESE
12/11/2023 12:01:00	1.7	2.3	0.6	0.00	0.00	0.00	1.2	SE
12/11/2023 12:02:00	1.6	1.9	0.3	0.00	0.00	0.00	1.3	WSW
12/11/2023 12:03:00	1.6	0.4	-1.1	0.00	0.00	0.00	1.3	W
12/11/2023 12:04:00	0.9	0.4	-0.5	0.00	0.00	0.00	1.3	ESE
12/11/2023 12:05:00	0.6	0.3	-0.3	0.00	0.00	0.00	1.3	SW
12/11/2023 12:06:00	0.4	0.3	-0.1	0.00	0.00	0.00	1.3	SE
12/11/2023 12:07:00	0.4	0.3	-0.1	0.00	0.00	0.00	1.3	SW
12/11/2023 12:08:00	0.3	0.3	0.0	0.00	0.00	0.00	1.4	WSW
12/11/2023 12:09:00	0.3	0.3	-0.1	0.00	0.00	0.00	1.4	SSE
12/11/2023 12:10:00	0.3	0.3	-0.1	0.00	0.00	0.00	1.4	ESE
12/11/2023 12:11:00	0.3	0.3	0.0	0.00	0.00	0.00	1.4	W
12/11/2023 12:12:00	0.3	0.4	0.1	0.00	0.00	0.00	1.5	SW
12/11/2023 12:13:00	0.3	0.5	0.2	0.00	0.00	0.00	1.5	SSE
12/11/2023 12:14:00	0.3	0.6	0.3	0.00	0.00	0.00	1.5	SW
12/11/2023 12:15:00	0.5	0.8	0.3	0.00	0.00	0.00	1.5	SSW
12/11/2023 12:16:00	0.5	0.9	0.3	0.00	0.00	0.00	1.5	ESE
12/11/2023 12:17:00	0.6	0.9	0.3	0.00	0.00	0.00	1.5	E
12/11/2023 12:18:00	0.7	0.9	0.3	0.00	0.00	0.00	1.5	WSW
12/11/2023 12:19:00	0.7	1.0	0.3	0.00	0.00	0.00	1.5	E
12/11/2023 12:20:00	0.9	1.0	0.2	0.00	0.00	0.00	1.5	E
12/11/2023 12:21:00	1.0	1.0	0.1	0.00	0.00	0.00	1.5	ESE
12/11/2023 12:22:00	1.1	1.0	-0.1	0.00	0.00	0.00	1.4	ESE
12/11/2023 12:23:00	1.2	1.1	-0.2	0.00	0.00	0.00	1.4	E
12/11/2023 12:24:00	1.4	1.0	-0.4	0.00	0.00	0.00	1.4	E
12/11/2023 12:25:00	1.4	1.0	-0.4	0.00	0.00	0.00	1.4	ENE
12/11/2023 12:26:00	1.5	1.0	-0.4	0.00	0.00	0.00	1.3	W
12/11/2023 12:27:00	1.5	1.0	-0.5	0.00	0.00	0.00	1.3	SW
12/11/2023 12:28:00	1.4	0.9	-0.5	0.00	0.00	0.00	1.2	SW
12/11/2023 12:29:00	1.4	0.9	-0.6	0.00	0.00	0.00	1.3	WSW
12/11/2023 12:30:00	1.3	0.8	-0.5	0.00	0.00	0.00	1.3	S
12/11/2023 12:31:00	1.3	0.9	-0.4	0.00	0.00	0.00	1.3	E

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
12/11/2023 12:32:00	1.6	1.2	-0.5	0.00	0.00	0.00	1.4	WSW
12/11/2023 12:33:00	2.0	1.4	-0.6	0.00	0.00	0.00	1.4	WSW
12/11/2023 12:34:00	2.1	1.9	-0.2	0.00	0.00	0.00	1.4	WSW
12/11/2023 12:35:00	2.3	2.0	-0.3	0.00	0.00	0.00	1.4	WSW
12/11/2023 12:36:00	2.3	3.1	0.9	0.00	0.00	0.00	1.4	E
12/11/2023 12:37:00	2.4	4.8	2.5	0.00	0.00	0.00	1.4	E
12/11/2023 12:38:00	3.2	4.9	1.8	0.00	0.00	0.00	1.4	SW
12/11/2023 12:39:00	6.1	5.1	-1.0	0.00	0.00	0.00	1.3	SSE
12/11/2023 12:40:00	7.0	5.4	-1.7	0.00	0.00	0.00	1.4	WSW
12/11/2023 12:41:00	7.3	5.8	-1.4	0.00	0.00	0.00	1.4	E
12/11/2023 12:42:00	7.8	6.0	-1.9	0.00	0.00	0.00	1.3	WSW
12/11/2023 12:43:00	8.8	6.2	-2.6	0.01	0.00	0.00	1.3	WSW
12/11/2023 12:44:00	9.6	6.4	-3.2	0.01	0.00	0.00	1.3	SW
12/11/2023 12:45:00	10.2	6.4	-3.8	0.01	0.00	-0.01	1.3	W
12/11/2023 12:46:00	10.9	6.5	-4.5	0.01	0.00	-0.01	1.3	W
12/11/2023 12:47:00	11.5	6.5	-4.9	0.01	0.00	-0.01	1.2	WNW
12/11/2023 12:48:00	11.9	6.4	-5.5	0.01	0.00	-0.01	1.2	SW
12/11/2023 12:49:00	12.7	6.2	-6.5	0.01	0.00	-0.01	1.3	WSW
12/11/2023 12:50:00	13.5	6.4	-7.0	0.01	0.00	-0.01	1.3	SW
12/11/2023 12:51:00	14.1	5.7	-8.4	0.01	0.00	-0.01	1.3	WSW
12/11/2023 12:52:00	14.4	4.1	-10.3	0.01	0.00	-0.01	1.3	SSW
12/11/2023 12:53:00	13.6	4.7	-8.9	0.01	0.00	-0.01	1.4	E
12/11/2023 12:54:00	10.9	4.7	-6.3	0.01	0.00	-0.01	1.4	SW
12/11/2023 12:55:00	10.2	4.6	-5.6	0.01	0.00	-0.01	1.4	WSW
12/11/2023 12:56:00	10.3	4.5	-5.9	0.01	0.00	-0.01	1.4	E
12/11/2023 12:57:00	10.1	4.4	-5.8	0.01	0.00	-0.01	1.4	E
12/11/2023 12:58:00	9.5	4.4	-5.1	0.01	0.00	-0.01	1.4	SSW
12/11/2023 12:59:00	9.1	4.4	-4.7	0.01	0.00	-0.01	1.4	ESE
12/11/2023 13:00:00	8.6	4.6	-4.0	0.01	0.00	-0.01	1.4	E
12/11/2023 13:01:00	8.1	4.6	-3.5	0.01	0.00	-0.01	1.4	E
12/11/2023 13:02:00	7.3	4.4	-2.9	0.01	0.00	0.00	1.5	SW
12/11/2023 13:03:00	6.8	4.4	-2.4	0.01	0.00	0.00	1.4	S

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
12/11/2023 13:04:00	6.5	4.3	-2.2	0.00	0.00	0.00	1.3	SSE
12/11/2023 13:05:00	5.8	4.0	-1.8	0.01	0.00	0.00	1.3	WSW
12/11/2023 13:06:00	5.5	3.9	-1.6	0.01	0.00	-0.01	1.3	W
12/11/2023 13:07:00	5.0	4.2	-0.8	0.01	0.00	0.00	1.3	ESE
12/11/2023 13:08:00	5.0	3.8	-1.3	0.01	0.00	0.00	1.3	ESE
12/11/2023 13:09:00	4.8	3.7	-1.1	0.01	0.00	0.00	1.3	SSE
12/11/2023 13:10:00	4.7	4.3	-0.4	0.01	0.00	0.00	1.3	E
12/11/2023 13:11:00	4.5	4.2	-0.3	0.01	0.01	0.00	1.3	E
12/11/2023 13:12:00	4.5	4.2	-0.3	0.01	0.01	0.00	1.3	E
12/11/2023 13:13:00	4.5	4.5	0.0	0.01	0.01	0.00	1.3	E
12/11/2023 13:14:00	4.4	4.5	0.1	0.01	0.01	0.00	1.3	SE
12/11/2023 13:15:00	4.7	4.7	0.1	0.01	0.01	0.00	1.3	ESE
12/11/2023 13:16:00	5.3	4.8	-0.5	0.01	0.01	0.00	1.3	W
12/11/2023 13:17:00	5.5	4.8	-0.6	0.01	0.01	0.00	1.3	WSW
12/11/2023 13:18:00	5.3	4.8	-0.5	0.01	0.01	0.00	1.4	WSW
12/11/2023 13:19:00	5.0	4.7	-0.3	0.01	0.01	0.00	1.4	W
12/11/2023 13:20:00	4.6	4.7	0.1	0.00	0.01	0.00	1.4	E
12/11/2023 13:21:00	4.3	4.6	0.3	0.00	0.01	0.00	1.4	SE
12/11/2023 13:22:00	4.3	4.2	-0.1	0.00	0.00	0.00	1.4	ESE
12/11/2023 13:23:00	4.2	4.3	0.1	0.00	0.00	0.00	1.4	E
12/11/2023 13:24:00	3.9	4.3	0.3	0.00	0.00	0.00	1.4	SE
12/11/2023 13:25:00	3.9	3.5	-0.4	0.00	0.00	0.00	1.4	SE
12/11/2023 13:26:00	3.8	3.5	-0.3	0.00	0.00	0.00	1.4	ESE
12/11/2023 13:27:00	3.7	3.5	-0.2	0.00	0.00	0.00	1.4	SSE
12/11/2023 13:28:00	3.4	3.0	-0.4	0.00	0.00	0.00	1.4	E
12/11/2023 13:29:00	3.6	2.7	-0.9	0.00	0.00	0.00	1.4	ESE
12/11/2023 13:30:00	3.5	2.6	-0.9	0.00	0.00	0.00	1.4	SSE
12/11/2023 13:31:00	2.8	3.1	0.3	0.00	0.00	0.00	1.4	E
12/11/2023 13:32:00	2.6	3.1	0.5	0.00	0.00	0.00	1.4	SE
12/11/2023 13:33:00	2.6	3.1	0.4	0.00	0.00	0.00	1.4	WSW
12/11/2023 13:34:00	2.4	3.1	0.7	0.00	0.00	0.00	1.4	W
12/11/2023 13:35:00	2.5	3.0	0.5	0.00	0.00	0.00	1.4	S

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
12/11/2023 13:36:00	2.8	2.9	0.1	0.00	0.00	0.00	1.5	W
12/11/2023 13:37:00	3.1	3.0	-0.2	0.00	0.00	0.00	1.4	WSW
12/11/2023 13:38:00	3.3	3.7	0.5	0.00	0.00	0.00	1.4	NE
12/11/2023 13:39:00	4.1	3.9	-0.3	0.00	0.00	0.00	1.5	SSW
12/11/2023 13:40:00	4.3	5.5	1.2	0.00	0.00	0.00	1.5	E
12/11/2023 13:41:00	5.0	5.5	0.5	0.01	0.00	0.00	1.5	SW
12/11/2023 13:42:00	5.0	5.8	0.7	0.00	0.00	0.00	1.5	E
12/11/2023 13:43:00	5.2	6.2	1.0	0.00	0.00	0.00	1.5	E
12/11/2023 13:44:00	5.0	6.5	1.5	0.00	0.00	0.00	1.5	E
12/11/2023 13:45:00	5.0	6.5	1.5	0.00	0.00	0.00	1.5	E
12/11/2023 13:46:00	5.9	6.1	0.2	0.00	0.00	0.00	1.5	W
12/11/2023 13:47:00	6.0	6.4	0.4	0.00	0.00	0.00	1.4	ESE
12/11/2023 13:48:00	6.2	6.5	0.3	0.00	0.00	0.00	1.4	WSW
12/11/2023 13:49:00	6.2	6.4	0.2	0.00	0.00	0.00	1.3	W
12/11/2023 13:50:00	6.3	6.4	0.1	0.00	0.00	0.00	1.3	WSW
12/11/2023 13:51:00	6.0	6.5	0.4	0.00	0.00	0.00	1.3	S
12/11/2023 13:52:00	6.0	6.4	0.5	0.00	0.00	0.00	1.3	E
12/11/2023 13:53:00	5.9	5.7	-0.2	0.00	0.00	0.00	1.3	WSW
12/11/2023 13:54:00	5.2	5.7	0.5	0.00	0.00	0.00	1.3	ESE
12/11/2023 13:55:00	5.0	4.4	-0.7	0.00	0.00	0.00	1.4	SE
12/11/2023 13:56:00	4.9	4.4	-0.5	0.00	0.00	0.00	1.3	SSE
12/11/2023 13:57:00	4.7	4.1	-0.7	0.00	0.00	0.00	1.3	E
12/11/2023 13:58:00	4.5	3.8	-0.8	0.00	0.00	0.00	1.3	E
12/11/2023 13:59:00	4.6	3.9	-0.7	0.00	0.00	0.00	1.2	E
12/11/2023 14:00:00	4.9	3.6	-1.2	0.00	0.00	0.00	1.2	S
12/11/2023 14:01:00	4.0	3.5	-0.5	0.00	0.00	0.00	1.2	WSW
12/11/2023 14:02:00	3.8	3.0	-0.8	0.00	0.00	0.00	1.2	W
12/11/2023 14:03:00	3.6	3.0	-0.6	0.00	0.00	0.00	1.2	WSW
12/11/2023 14:04:00	3.6	3.1	-0.4	0.00	0.00	0.00	1.3	E
12/11/2023 14:05:00	3.5	3.2	-0.3	0.00	0.00	0.00	1.3	SE
12/11/2023 14:06:00	3.8	3.0	-0.8	0.00	0.00	0.00	1.2	E
12/11/2023 14:07:00	3.6	3.3	-0.3	0.00	0.00	0.00	1.2	WSW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
12/11/2023 14:08:00	3.6	2.9	-0.7	0.00	0.00	0.00	1.3	ESE
12/11/2023 14:09:00	3.5	2.8	-0.7	0.00	0.00	0.00	1.3	E
12/11/2023 14:10:00	3.5	2.5	-1.0	0.00	0.00	0.00	1.3	E
12/11/2023 14:11:00	3.1	2.3	-0.7	0.00	0.00	0.00	1.3	E
12/11/2023 14:12:00	3.1	2.2	-0.9	0.00	0.00	0.00	1.3	E
12/11/2023 14:13:00	3.0	2.2	-0.7	0.00	0.00	0.00	1.3	S
12/11/2023 14:14:00	2.7	2.1	-0.6	0.00	0.00	0.00	1.3	SSE
12/11/2023 14:15:00	2.4	1.9	-0.5	0.00	0.00	0.00	1.4	E
12/11/2023 14:16:00	2.5	1.8	-0.6	0.00	0.00	0.00	1.4	E
12/11/2023 14:17:00	2.7	1.8	-0.9	0.00	0.00	0.00	1.4	ESE
12/11/2023 14:18:00	2.8	1.7	-1.1	0.00	0.00	0.00	1.4	E
12/11/2023 14:19:00				0.00	0.00	0.00	1.4	SW
12/11/2023 14:20:00	1.7	1.4	-0.2	0.00	0.00	0.00	1.4	ESE
12/11/2023 14:21:00	1.6	1.4	-0.2	0.00	0.00	0.00	1.4	NW
12/11/2023 14:22:00	1.4	1.0	-0.5	0.00	0.00	0.00	1.3	ESE
12/11/2023 14:23:00	1.4	0.8	-0.7	0.00	0.00	0.00	1.3	NNE
12/11/2023 14:24:00	1.3	1.0	-0.3	0.00	0.00	0.00	1.3	SW
12/11/2023 14:25:00				0.00	0.00	0.00	1.3	SSW
12/11/2023 14:26:00				0.00	0.00	0.00	1.3	WSW
12/11/2023 14:27:00	2.3	1.2	-1.1	0.00	0.00	0.00	1.3	WSW
12/11/2023 14:28:00	1.9	1.3	-0.6	0.00	0.00	0.00	1.3	SW
12/11/2023 14:29:00	2.0	1.4	-0.7	0.00	0.00	0.00	1.3	WSW
12/11/2023 14:30:00	1.8	1.5	-0.3	0.00	0.00	0.00	1.3	E
12/11/2023 14:31:00	1.7	1.6	-0.2	0.00	0.00	0.00	1.3	ESE
12/11/2023 14:32:00	1.7	1.6	-0.1	0.00	0.00	0.00	1.3	W
12/11/2023 14:33:00	1.7	1.6	-0.2	0.00	0.00	0.00	1.3	S
12/11/2023 14:34:00	1.7	1.5	-0.2	0.00	0.00	0.00	1.4	ESE
12/11/2023 14:35:00	1.7	1.5	-0.2	0.00	0.00	0.00	1.3	ESE
12/11/2023 14:36:00	1.7	1.6	-0.1	0.00	0.00	0.00	1.3	E
12/11/2023 14:37:00	1.7	1.6	-0.1	0.00	0.01	0.00	1.4	ESE
12/11/2023 14:38:00	1.7	1.5	-0.2	0.00	0.01	0.00	1.4	SE
12/11/2023 14:39:00	1.7	1.5	-0.2	0.00	0.01	0.00	1.3	E

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
12/11/2023 14:40:00	1.7	1.5	-0.2	0.00	0.01	0.00	1.3	E
12/11/2023 14:41:00	1.8	1.5	-0.3	0.00	0.01	0.00	1.4	SSE
12/11/2023 14:42:00	1.8	1.5	-0.2	0.00	0.01	0.00	1.4	E
12/11/2023 14:43:00	1.8	1.6	-0.2	0.00	0.01	0.01	1.3	E
12/11/2023 14:44:00	1.8	1.6	-0.1	0.00	0.01	0.01	1.3	E
12/11/2023 14:45:00	1.8	1.6	-0.2	0.00	0.01	0.01	1.3	WSW
12/11/2023 14:46:00	1.8	1.6	-0.2	0.00	0.01	0.00	1.4	E
12/11/2023 14:47:00	1.8	1.6	-0.2	0.00	0.01	0.01	1.3	E
12/11/2023 14:48:00	1.8	1.6	-0.2	0.00	0.01	0.01	1.3	WSW
12/11/2023 14:49:00	1.7	1.6	-0.2	0.00	0.01	0.01	1.2	E
12/11/2023 14:50:00	1.7	1.6	-0.2	0.00	0.01	0.00	1.2	W
12/11/2023 14:51:00	1.7	1.5	-0.2	0.00	0.00	0.00	1.3	S
12/11/2023 14:52:00	1.7	1.6	-0.1	0.00	0.00	0.00	1.2	S
12/11/2023 14:53:00	1.6	1.6	-0.1	0.00	0.00	0.00	1.3	ESE
12/11/2023 14:54:00	1.6	1.6	-0.1	0.00	0.00	0.00	1.3	E
12/11/2023 14:55:00	1.6	1.6	0.0	0.00	0.00	0.00	1.3	SSE
12/11/2023 14:56:00	1.6	1.6	0.0	0.00	0.00	0.00	1.3	SW
12/11/2023 14:57:00	1.8	1.6	-0.3	0.00	0.00	0.00	1.3	SE
12/11/2023 14:58:00	1.9	1.5	-0.3	0.01	0.00	0.00	1.3	SW
12/11/2023 14:59:00	1.8	2.6	0.8	0.01	0.00	0.00	1.3	E
12/11/2023 15:00:00	2.2	2.7	0.5	0.01	0.00	0.00	1.3	SSE
12/11/2023 15:01:00	2.4	2.8	0.4	0.01	0.00	0.00	1.3	E
12/11/2023 15:02:00	2.5	2.8	0.3	0.01	0.00	0.00	1.3	SW
12/11/2023 15:03:00	2.6	2.8	0.2	0.01	0.00	0.00	1.3	W
12/11/2023 15:04:00	2.6	3.2	0.6	0.01	0.00	0.00	1.3	ESE
12/11/2023 15:05:00	3.2	3.2	0.1	0.01	0.00	0.00	1.3	SSW
12/11/2023 15:06:00	3.2	3.4	0.2	0.01	0.00	0.00	1.2	ESE
12/11/2023 15:07:00	3.2	3.4	0.2	0.01	0.00	0.00	1.2	NW
12/11/2023 15:08:00	3.2	3.3	0.2	0.01	0.00	0.00	1.2	E
12/11/2023 15:09:00	3.3	3.5	0.2	0.01	0.00	0.00	1.2	S
12/11/2023 15:10:00	3.3	3.5	0.2	0.01	0.00	0.00	1.2	WSW
12/11/2023 15:11:00	3.2	3.5	0.3	0.01	0.00	-0.01	1.3	WSW

Date/Time	Average Upwind PM10 (µg/m³)	Average Downwind PM10 (µg/m³)	Average Contribution PM10 (µg/m³)	Average Upwind VOC (ppm)	Average Downwind VOC (ppm)	Average Contribution VOC (ppm)	Wind Speed 15 min Avg	Wind Direction
12/11/2023 15:12:00	3.0	3.6	0.6	0.01	0.00	0.00	1.3	ESE
12/11/2023 15:13:00	2.9	3.6	0.7	0.01	0.01	0.00	1.2	SE
12/11/2023 15:14:00	3.0	2.6	-0.5	0.01	0.00	0.00	1.2	E
12/11/2023 15:15:00	2.6	2.5	-0.2	0.01	0.00	0.00	1.1	E
12/11/2023 15:16:00	2.4	2.3	-0.1	0.01	0.00	0.00	1.1	E
12/11/2023 15:17:00	2.3	2.3	-0.1	0.01	0.00	0.00	1.1	E
12/11/2023 15:18:00	2.2	2.3	0.0	0.01	0.00	0.00	1.1	E
12/11/2023 15:19:00	2.2	1.9	-0.3	0.01	0.00	0.00	1.1	SSE
12/11/2023 15:20:00	1.7	1.9	0.2	0.01	0.00	0.00	1.2	SSE
12/11/2023 15:21:00	1.7	1.7	0.0	0.01	0.00	0.00	1.1	SW
12/11/2023 15:22:00	1.8	1.7	0.0	0.01	0.00	0.00	1.1	W
12/11/2023 15:23:00	1.7	1.7	0.0	0.01	0.00	0.00	1.1	E
12/11/2023 15:24:00	1.6	1.6	0.0	0.01	0.00	0.00	1.1	E
12/11/2023 15:25:00	1.6	1.6	0.0	0.00	0.00	0.00	1.0	ESE
12/11/2023 15:26:00	1.6	1.6	0.1	0.00	0.00	0.00	1.0	E
12/11/2023 15:27:00	1.6	1.6	0.0	0.00	0.00	0.00	1.0	E
12/11/2023 15:28:00	1.6	1.6	0.0	0.00	0.00	0.00	1.0	E
12/11/2023 15:29:00	1.5	1.6	0.1	0.00	0.00	0.00	1.0	ESE
12/11/2023 15:30:00	1.4	1.6	0.2	0.00	0.00	0.00	1.0	WSW
12/11/2023 15:31:00	1.5	1.7	0.2	0.01	0.00	0.00	1.1	SW
12/11/2023 15:32:00	1.5	1.7	0.2	0.01	0.00	0.00	1.1	ESE
12/11/2023 15:33:00	1.5	1.8	0.3	0.01	0.00	0.00	1.0	SW
12/11/2023 15:34:00	1.6	1.7	0.1	0.00	0.00	0.00	1.0	ENE