

# DAILY FIELD REPORT 099

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

Prepared By: LANGAN

<b>BCP Project No:</b>	C231153	<b>Date:</b>	October 21, 2023
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<b>Project Name:</b>	Kasser Scrap Metal and Rector Cleaners Site	<b>Time:</b>	9:00 am to 5:00 pm
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<b>Consultant:</b> Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan)	<b>Langan Field Personnel:</b> Rachel Condon (Environmental) Xianglei Zheng (Geotechnical)
<b>Construction Manager:</b> Consigli Construction Co., Inc. (Consigli)	
<b>Foundation Contractor:</b> Urban Foundation/Engineering (Urban)	

## Work Activities Performed:

- Urban excavated an about 40-foot-long by 9-foot-wide area from about 1 foot below grade surface (bgs) to about 3 feet bgs in the southeastern part of waste characterization grid WC05\_0-5 to prepare for equipment mobilization. Excavated soil/fill was stockpiled in the central part of the site (grid WC03) and covered with polyethylene sheeting at the end of the day, pending off-site disposal.
- Urban excavated an about 20-foot-long by 5-foot-wide area from about 5 feet bgs to about 7 feet bgs in the northeastern part of waste characterization grid WC03\_5-10 to prepare for equipment mobilization. Excavated soil/fill was stockpiled in the central part of the site (grid WC03) and covered with polyethylene sheeting at the end of the day, pending off-site disposal.
- Urban graded an about 85-foot-long by 40-foot-wide area of soil/fill in the central part of the site (WC03) to prepare for equipment mobilization.
- Excavated and graded soil/fill consisted of non-native soil; odors, staining, elevated photoionization detector (PID) readings, or other evidence of a petroleum or chemical release were not observed.
- Urban continued advancing two casings for two caissons using an Urban Custom Build Drill Rig in the northeastern part of the site.
- Urban installed one rock socket for one caisson using a Bauer BG28H Drill Rig in the southern of the site.

## Material Tracking:

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

Materials Export Summary								
Facility Name	Bayshore Soil Management, LLC		Clean Earth of Carteret, LLC		PPark NJ		Faztec Solutions	
Location	Keasbey, NJ		Carteret, NJ		Prospect Park, NJ		Staten Island, NY	
Type of Waste	Non-hazardous Soil		Non-hazardous Soil		Non-hazardous Soil		C&D	
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)
	120	3,300	43	860	0	-	14	280

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

**Samples Collected:**

- No samples were collected.

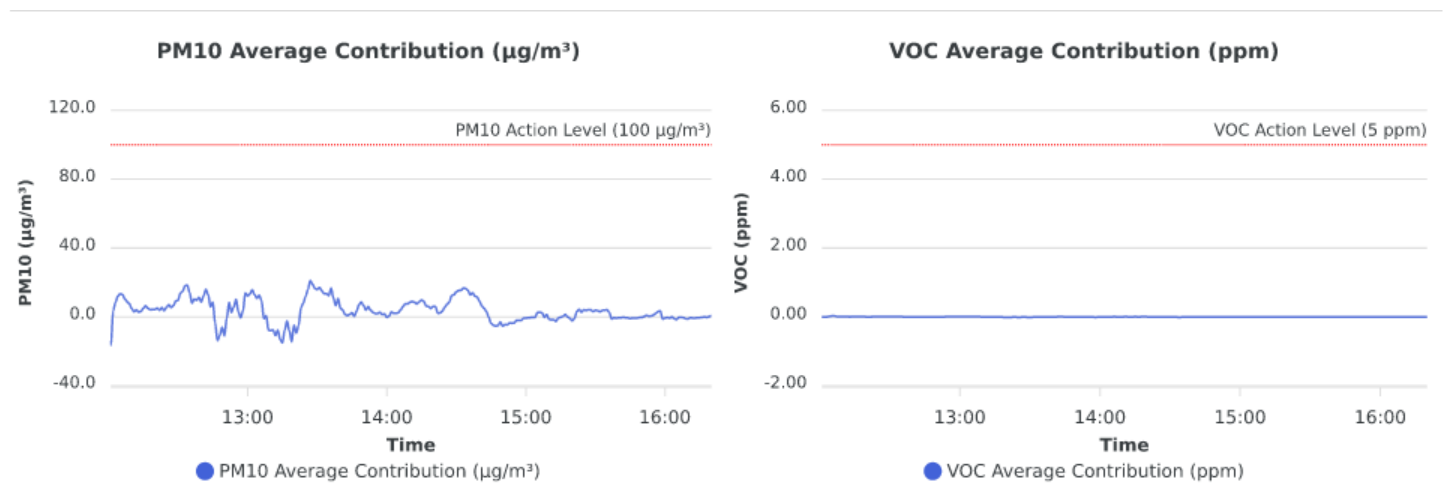
**Air Monitoring:**

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  $\mu\text{g}/\text{m}^3$  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  $\mu\text{g}/\text{m}^3$  or 5 ppm, respectively, on this day. The community air monitoring plan (CAMP) was not implemented until 11:59 due to sustained precipitation.

Particulate Monitoring ( $\mu\text{g}/\text{m}^3$ )		Organic Vapor Monitoring (ppm)	
Daily Background	20.3	Daily Background	0.00
PM10 Average Site Contribution (Minimum)	-16.9	VOC Average Site Contribution (Minimum)	-0.01
PM10 Average Site Contribution (Maximum)	21.0	VOC Average Site Contribution (Maximum)	0.03

$\mu\text{g}/\text{m}^3$ : micrograms per cubic meter.

ppm: parts per million.



**Planned Activities:**

- Urban will continue installing caisson casings throughout the site.

**SITE PLAN**



- Site Boundary
- Waste Characterization Grid Boundary
- CAMP station 1
- CAMP station 2
- Stockpile - Soil (no impacts)
- Stockpile - C&D
- 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
- 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 grading soil/fill in WC03 (facing northeast).



**Photo 2:** View of the Urban stockpiling excavated soil/fill in WC03 (facing northeast).



<b>LANGAN</b>	<b>Air Monitoring Report</b>	<b>170695201 - 111 Washington St</b>	
		<b>Report Period</b>	
		<b>From:</b>	10/21/2023 06:00
		<b>To:</b>	10/21/2023 18:00
		<b>PM10 Action Level:</b>	100.0 $\mu\text{g}/\text{m}^3$
<b>VOC Action Level:</b>	5.00 ppm		

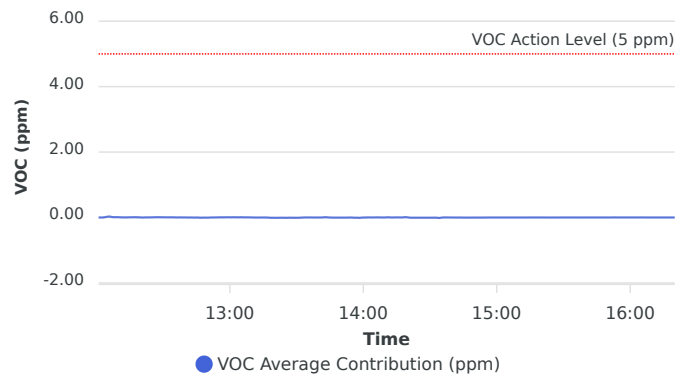
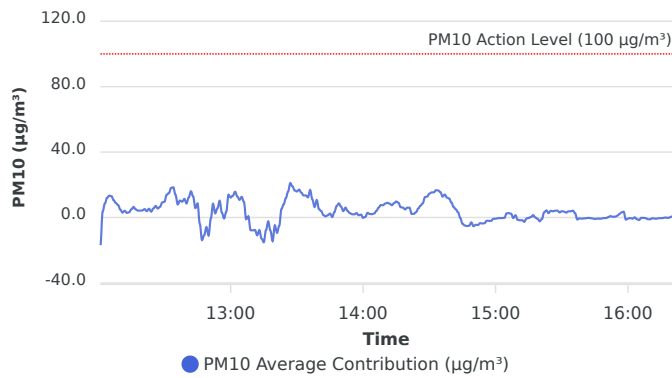
<b>Daily Environmental Summary</b>	<b>Windspeed (mph)</b>	<b>Prevailing wind direction</b>
10/21/2023	0.5-2.9	NNW

<b>Daily Monitoring Summary</b>	<b>PM10 (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Time</b>	<b>VOC (ppm)</b>	<b>Time</b>
<b>Min Contribution (15 min avg.) - 10/21/2023</b>	-16.9	12:01	-0.01	14:34
<b>Max Contribution (15 min avg.) - 10/21/2023</b>	21.0	13:27	0.03	12:06

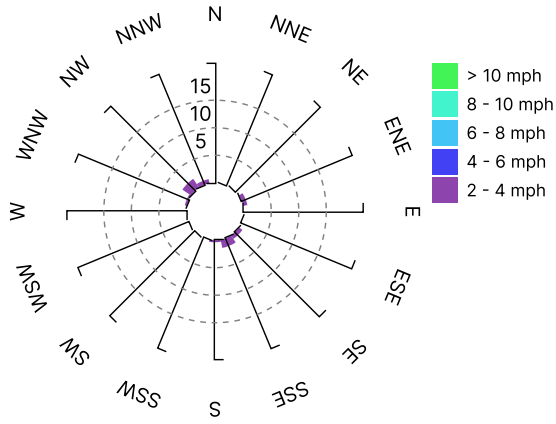


**PM10 Average Contribution ( $\mu\text{g}/\text{m}^3$ )**

**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
10/21/2023 12:01:00	20.3	3.4	-16.9	0.00	0.00	0.00	1.1	NW
10/21/2023 12:02:00	11.7	15.3	3.6	0.00	0.00	0.00	1.5	ENE
10/21/2023 12:03:00	9.0	17.5	8.5	0.00	0.00	0.00	1.4	E
10/21/2023 12:04:00	7.7	19.7	12.0	0.00	0.01	0.01	1.3	N
10/21/2023 12:05:00	7.0	20.4	13.4	0.00	0.02	0.02	1.3	NNE
10/21/2023 12:06:00	6.5	19.5	13.0	0.00	0.03	0.03	1.3	E
10/21/2023 12:07:00	6.5	17.1	10.5	0.02	0.03	0.01	1.4	E
10/21/2023 12:08:00	6.8	15.6	8.8	0.02	0.03	0.01	1.4	E
10/21/2023 12:09:00	8.9	16.5	7.6	0.02	0.03	0.01	1.3	N
10/21/2023 12:10:00	10.7	15.5	4.8	0.02	0.03	0.01	1.4	NW
10/21/2023 12:11:00	11.6	14.6	3.0	0.03	0.03	0.01	1.4	WNW
10/21/2023 12:12:00	11.2	15.3	4.1	0.03	0.03	0.00	1.4	ESE
10/21/2023 12:13:00	11.6	14.4	2.8	0.03	0.03	0.00	1.4	SSW
10/21/2023 12:14:00	11.0	14.2	3.2	0.03	0.03	0.00	1.4	NNW
10/21/2023 12:15:00	10.5	15.5	5.0	0.03	0.03	0.01	1.4	NW
10/21/2023 12:16:00	9.3	15.8	6.4	0.03	0.03	0.01	1.4	NNW
10/21/2023 12:17:00	9.6	14.5	5.0	0.03	0.03	0.01	1.4	N
10/21/2023 12:18:00	9.8	13.9	4.2	0.03	0.03	0.01	1.4	N
10/21/2023 12:19:00	9.7	13.9	4.2	0.03	0.03	0.01	1.4	NNW
10/21/2023 12:20:00	9.6	13.9	4.3	0.03	0.03	0.00	1.4	ESE
10/21/2023 12:21:00	9.5	14.6	5.1	0.03	0.02	0.00	1.4	NNW
10/21/2023 12:22:00	10.7	14.6	3.9	0.02	0.02	0.00	1.5	NW
10/21/2023 12:23:00	10.3	15.7	5.3	0.02	0.02	0.00	1.5	E
10/21/2023 12:24:00	10.8	14.4	3.6	0.02	0.02	0.00	1.5	S
10/21/2023 12:25:00	9.3	14.8	5.6	0.01	0.02	0.00	1.4	NNW
10/21/2023 12:26:00	8.0	15.1	7.0	0.01	0.02	0.01	1.4	NE
10/21/2023 12:27:00	8.3	13.8	5.5	0.01	0.02	0.01	1.4	W
10/21/2023 12:28:00	7.4	13.9	6.5	0.01	0.02	0.01	1.4	NW
10/21/2023 12:29:00	7.4	16.6	9.2	0.01	0.01	0.01	1.3	NE
10/21/2023 12:30:00	7.4	17.0	9.6	0.01	0.01	0.01	1.4	NNE
10/21/2023 12:31:00	7.3	21.2	13.9	0.01	0.01	0.01	1.4	NNW
10/21/2023 12:32:00	7.1	21.9	14.9	0.01	0.01	0.01	1.4	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
10/21/2023 12:33:00	6.8	24.9	18.1	0.01	0.01	0.01	1.3	NNE
10/21/2023 12:34:00	6.8	25.3	18.4	0.01	0.01	0.01	1.3	NNW
10/21/2023 12:35:00	10.3	24.2	13.9	0.01	0.01	0.00	1.3	WNW
10/21/2023 12:36:00	15.5	23.5	8.0	0.01	0.01	0.00	1.3	NW
10/21/2023 12:37:00	15.2	25.6	10.3	0.01	0.01	0.00	1.2	SSE
10/21/2023 12:38:00	16.4	26.1	9.7	0.01	0.01	0.00	1.2	W
10/21/2023 12:39:00	14.8	26.2	11.3	0.01	0.01	0.00	1.2	W
10/21/2023 12:40:00	16.9	25.5	8.6	0.01	0.01	0.00	1.2	SW
10/21/2023 12:41:00	17.1	29.3	12.2	0.01	0.01	0.00	1.2	NE
10/21/2023 12:42:00	16.5	32.5	16.0	0.01	0.01	0.00	1.3	NW
10/21/2023 12:43:00	19.5	32.3	12.8	0.01	0.01	0.00	1.2	SE
10/21/2023 12:44:00	23.2	29.0	5.8	0.01	0.01	0.00	1.3	WNW
10/21/2023 12:45:00	23.3	31.8	8.6	0.01	0.01	0.00	1.3	NW
10/21/2023 12:46:00	31.2	27.4	-3.8	0.01	0.01	0.00	1.3	WNW
10/21/2023 12:47:00	40.4	26.5	-13.8	0.01	0.01	-0.01	1.3	WNW
10/21/2023 12:48:00	40.4	29.6	-10.8	0.01	0.01	-0.01	1.3	N
10/21/2023 12:49:00	40.5	34.6	-5.9	0.01	0.01	0.00	1.3	NNW
10/21/2023 12:50:00	45.4	34.4	-11.0	0.02	0.01	-0.01	1.4	SSE
10/21/2023 12:51:00	40.3	39.6	-0.7	0.01	0.01	0.00	1.4	NW
10/21/2023 12:52:00	39.1	47.5	8.4	0.01	0.01	0.00	1.4	N
10/21/2023 12:53:00	43.4	46.0	2.6	0.01	0.01	0.00	1.5	WNW
10/21/2023 12:54:00	43.7	49.4	5.6	0.01	0.02	0.00	1.5	NNW
10/21/2023 12:55:00	42.5	52.7	10.2	0.01	0.02	0.00	1.5	NNW
10/21/2023 12:56:00	46.1	49.1	3.0	0.01	0.02	0.01	1.5	WSW
10/21/2023 12:57:00	47.9	47.3	-0.6	0.01	0.02	0.00	1.5	WNW
10/21/2023 12:58:00	45.1	48.6	3.5	0.01	0.02	0.01	1.5	NNW
10/21/2023 12:59:00	41.5	55.4	13.9	0.01	0.02	0.01	1.5	NNW
10/21/2023 13:00:00	41.6	53.8	12.2	0.01	0.01	0.01	1.5	NNW
10/21/2023 13:01:00	40.6	53.9	13.3	0.01	0.01	0.01	1.6	NW
10/21/2023 13:02:00	38.3	54.0	15.8	0.01	0.01	0.01	1.5	SE
10/21/2023 13:03:00	38.5	51.3	12.8	0.01	0.01	0.01	1.5	NW
10/21/2023 13:04:00	38.8	49.6	10.8	0.01	0.01	0.00	1.4	ESE
10/21/2023 13:05:00	37.1	49.7	12.6	0.01	0.01	0.01	1.4	SE

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
10/21/2023 13:06:00	37.3	46.7	9.5	0.01	0.01	0.01	1.3	NW
10/21/2023 13:07:00	38.1	37.0	-1.1	0.01	0.01	0.00	1.3	SSE
10/21/2023 13:08:00	36.1	36.9	0.7	0.00	0.01	0.01	1.3	SSW
10/21/2023 13:09:00	41.2	33.4	-7.8	0.01	0.01	0.00	1.2	W
10/21/2023 13:10:00	40.5	32.6	-7.9	0.01	0.01	0.00	1.2	NNW
10/21/2023 13:11:00	39.6	32.0	-7.6	0.01	0.00	0.00	1.2	NW
10/21/2023 13:12:00	41.5	30.6	-10.9	0.01	0.00	0.00	1.3	WNW
10/21/2023 13:13:00	41.3	33.6	-7.7	0.01	0.01	0.00	1.3	NE
10/21/2023 13:14:00	41.2	28.2	-13.0	0.01	0.01	0.00	1.3	NNW
10/21/2023 13:15:00	41.0	25.9	-15.1	0.01	0.01	0.00	1.2	NNW
10/21/2023 13:16:00	34.1	26.4	-7.7	0.01	0.01	0.00	1.2	NE
10/21/2023 13:17:00	28.5	26.1	-2.4	0.01	0.01	0.00	1.2	NW
10/21/2023 13:18:00	30.3	22.2	-8.1	0.01	0.01	-0.01	1.2	WNW
10/21/2023 13:19:00	31.7	17.3	-14.4	0.01	0.00	-0.01	1.2	SSE
10/21/2023 13:20:00	25.0	20.2	-4.8	0.01	0.01	-0.01	1.2	SE
10/21/2023 13:21:00	27.1	17.7	-9.4	0.01	0.00	-0.01	1.2	WNW
10/21/2023 13:22:00	26.5	21.5	-5.0	0.01	0.01	-0.01	1.2	ENE
10/21/2023 13:23:00	23.2	28.4	5.2	0.01	0.01	-0.01	1.3	NNW
10/21/2023 13:24:00	20.3	28.3	8.0	0.01	0.01	-0.01	1.3	WNW
10/21/2023 13:25:00	20.3	32.2	11.9	0.02	0.01	-0.01	1.3	E
10/21/2023 13:26:00	17.4	33.2	15.8	0.02	0.01	-0.01	1.2	SE
10/21/2023 13:27:00	13.8	34.8	21.0	0.01	0.01	-0.01	1.2	NNE
10/21/2023 13:28:00	13.7	32.7	19.0	0.01	0.01	-0.01	1.3	ENE
10/21/2023 13:29:00	14.9	31.4	16.5	0.01	0.01	-0.01	1.3	S
10/21/2023 13:30:00	15.0	30.9	15.9	0.01	0.01	-0.01	1.2	N
10/21/2023 13:31:00	15.0	32.1	17.0	0.01	0.01	-0.01	1.3	E
10/21/2023 13:32:00	17.1	32.3	15.2	0.01	0.01	-0.01	1.2	NW
10/21/2023 13:33:00	18.8	32.3	13.5	0.01	0.01	0.00	1.3	SSE
10/21/2023 13:34:00	18.6	32.1	13.5	0.01	0.01	0.00	1.3	SSW
10/21/2023 13:35:00	18.5	30.8	12.3	0.01	0.01	0.00	1.3	NW
10/21/2023 13:36:00	16.2	33.0	16.8	0.00	0.01	0.00	1.3	NW
10/21/2023 13:37:00	17.9	28.9	11.0	0.00	0.00	0.00	1.3	SSW
10/21/2023 13:38:00	18.0	24.4	6.5	0.00	0.00	0.00	1.3	N

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
10/21/2023 13:39:00	15.1	25.8	10.7	0.00	0.00	0.00	1.3	SE
10/21/2023 13:40:00	15.0	20.1	5.0	0.00	0.00	0.00	1.3	NNW
10/21/2023 13:41:00	15.1	19.0	4.0	0.00	0.00	0.00	1.3	SSE
10/21/2023 13:42:00	16.1	17.6	1.4	0.00	0.00	0.00	1.3	W
10/21/2023 13:43:00	17.8	18.5	0.7	0.00	0.01	0.01	1.3	W
10/21/2023 13:44:00	18.6	20.0	1.4	0.01	0.01	0.00	1.2	NNE
10/21/2023 13:45:00	18.7	21.1	2.4	0.02	0.01	0.00	1.3	NE
10/21/2023 13:46:00	18.9	19.2	0.3	0.02	0.01	0.00	1.2	S
10/21/2023 13:47:00	15.6	18.9	3.3	0.02	0.01	-0.01	1.3	NNW
10/21/2023 13:48:00	11.9	18.9	7.0	0.02	0.02	0.00	1.3	SE
10/21/2023 13:49:00	10.3	18.9	8.6	0.02	0.02	0.00	1.2	NW
10/21/2023 13:50:00	10.4	17.1	6.7	0.02	0.02	0.00	1.2	SE
10/21/2023 13:51:00	10.4	14.3	3.9	0.02	0.02	-0.01	1.2	N
10/21/2023 13:52:00	8.3	14.3	6.0	0.02	0.02	0.00	1.2	NW
10/21/2023 13:53:00	8.0	11.9	4.0	0.02	0.02	0.00	1.2	SE
10/21/2023 13:54:00	7.9	10.5	2.6	0.02	0.02	0.00	1.2	SSW
10/21/2023 13:55:00	7.8	9.8	2.0	0.02	0.02	0.00	1.2	SE
10/21/2023 13:56:00	7.7	9.6	1.9	0.03	0.02	-0.01	1.2	NE
10/21/2023 13:57:00	6.7	9.3	2.7	0.03	0.02	-0.01	1.2	SSE
10/21/2023 13:58:00	4.9	6.3	1.4	0.03	0.01	-0.01	1.2	ENE
10/21/2023 13:59:00	2.9	4.7	1.8	0.02	0.01	-0.01	1.2	W
10/21/2023 14:00:00	3.0	2.8	-0.2	0.01	0.01	0.00	1.2	NW
10/21/2023 14:01:00	2.9	3.3	0.4	0.01	0.01	0.00	1.2	NW
10/21/2023 14:02:00	2.9	5.8	2.9	0.01	0.01	0.00	1.2	N
10/21/2023 14:03:00	3.6	5.8	2.1	0.01	0.01	0.00	1.2	SE
10/21/2023 14:04:00	3.7	5.8	2.0	0.01	0.01	0.00	1.2	NNW
10/21/2023 14:05:00	3.7	6.2	2.5	0.01	0.01	0.00	1.2	N
10/21/2023 14:06:00	3.7	7.7	4.0	0.01	0.01	0.00	1.2	N
10/21/2023 14:07:00	3.7	9.8	6.0	0.01	0.01	0.00	1.3	NW
10/21/2023 14:08:00	3.9	11.5	7.6	0.01	0.01	0.00	1.3	ENE
10/21/2023 14:09:00	4.1	11.6	7.5	0.01	0.01	0.00	1.4	ESE
10/21/2023 14:10:00	4.2	12.7	8.5	0.01	0.01	0.00	1.3	NW
10/21/2023 14:11:00	4.4	13.4	8.9	0.00	0.01	0.01	1.4	SE

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
10/21/2023 14:12:00	4.8	13.3	8.5	0.00	0.00	0.00	1.4	NW
10/21/2023 14:13:00	5.8	13.3	7.5	0.00	0.00	0.00	1.5	NW
10/21/2023 14:14:00	5.9	14.7	8.8	0.00	0.00	0.00	1.5	ESE
10/21/2023 14:15:00	5.9	15.7	9.8	0.00	0.00	0.00	1.5	N
10/21/2023 14:16:00	6.7	15.7	9.0	0.00	0.00	0.00	1.5	NW
10/21/2023 14:17:00	7.5	13.8	6.3	0.00	0.00	0.00	1.6	SE
10/21/2023 14:18:00	8.3	14.3	6.0	0.00	0.01	0.00	1.6	S
10/21/2023 14:19:00	9.5	14.5	4.9	0.00	0.01	0.01	1.6	SE
10/21/2023 14:20:00	9.6	15.7	6.0	0.01	0.01	0.00	1.7	N
10/21/2023 14:21:00	9.7	15.7	6.0	0.02	0.01	-0.01	1.7	NNW
10/21/2023 14:22:00	11.5	13.7	2.2	0.02	0.01	-0.01	1.6	NW
10/21/2023 14:23:00	11.5	13.7	2.3	0.02	0.01	-0.01	1.6	NW
10/21/2023 14:24:00	11.4	14.7	3.3	0.02	0.01	-0.01	1.7	ENE
10/21/2023 14:25:00	11.4	16.9	5.5	0.02	0.01	-0.01	1.7	NW
10/21/2023 14:26:00	11.2	18.5	7.3	0.02	0.01	-0.01	1.7	NNW
10/21/2023 14:27:00	10.8	19.4	8.6	0.02	0.01	-0.01	1.7	NNW
10/21/2023 14:28:00	9.8	22.3	12.4	0.02	0.01	-0.01	1.6	N
10/21/2023 14:29:00	9.7	22.5	12.8	0.02	0.01	-0.01	1.6	N
10/21/2023 14:30:00	9.4	24.0	14.6	0.02	0.01	-0.01	1.6	ENE
10/21/2023 14:31:00	8.5	23.8	15.3	0.02	0.01	-0.01	1.6	NW
10/21/2023 14:32:00	7.9	23.3	15.4	0.02	0.01	-0.01	1.6	SE
10/21/2023 14:33:00	6.6	23.3	16.7	0.02	0.01	-0.01	1.6	N
10/21/2023 14:34:00	6.8	23.3	16.5	0.02	0.00	-0.01	1.6	WNW
10/21/2023 14:35:00	6.6	22.1	15.5	0.01	0.00	-0.01	1.6	WSW
10/21/2023 14:36:00	7.8	20.6	12.8	0.00	0.00	0.00	1.6	E
10/21/2023 14:37:00	6.6	20.6	14.0	0.00	0.00	0.00	1.5	SE
10/21/2023 14:38:00	6.9	19.1	12.1	0.00	0.00	0.00	1.5	WNW
10/21/2023 14:39:00	7.0	18.5	11.5	0.00	0.00	0.00	1.4	NW
10/21/2023 14:40:00	6.9	16.0	9.1	0.00	0.00	0.00	1.4	NNW
10/21/2023 14:41:00	7.7	14.1	6.4	0.00	0.00	0.00	1.3	W
10/21/2023 14:42:00	8.5	13.4	5.0	0.00	0.00	0.00	1.2	WNW
10/21/2023 14:43:00	8.5	11.7	3.2	0.00	0.00	0.00	1.3	N
10/21/2023 14:44:00	10.5	10.2	-0.3	0.00	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
10/21/2023 14:45:00	12.1	8.3	-3.8	0.00	0.00	0.00	1.4	SSE
10/21/2023 14:46:00	13.1	8.2	-4.9	0.00	0.00	0.00	1.4	SE
10/21/2023 14:47:00	13.5	8.3	-5.3	0.01	0.00	0.00	1.4	SW
10/21/2023 14:48:00	13.8	8.7	-5.0	0.01	0.00	0.00	1.4	NNW
10/21/2023 14:49:00	12.4	9.4	-3.0	0.01	0.00	0.00	1.4	NNW
10/21/2023 14:50:00	14.4	9.1	-5.3	0.01	0.00	0.00	1.4	SSE
10/21/2023 14:51:00	13.7	9.2	-4.5	0.01	0.00	0.00	1.4	SSE
10/21/2023 14:52:00	13.9	9.3	-4.6	0.00	0.00	0.00	1.4	NW
10/21/2023 14:53:00	13.6	10.2	-3.5	0.00	0.00	0.00	1.4	N
10/21/2023 14:54:00	14.1	10.4	-3.7	0.00	0.00	0.00	1.4	ESE
10/21/2023 14:55:00	14.3	10.8	-3.5	0.00	0.00	0.00	1.4	SSE
10/21/2023 14:56:00	14.2	12.3	-2.0	0.00	0.00	0.00	1.5	NW
10/21/2023 14:57:00	14.3	12.3	-2.1	0.00	0.00	0.00	1.5	WNW
10/21/2023 14:58:00	14.3	12.3	-2.1	0.00	0.00	0.00	1.5	SE
10/21/2023 14:59:00	13.1	12.3	-0.8	0.00	0.00	0.00	1.6	SSE
10/21/2023 15:00:00	12.7	11.9	-0.8	0.00	0.00	0.00	1.5	SE
10/21/2023 15:01:00	12.2	11.8	-0.4	0.00	0.00	0.00	1.4	W
10/21/2023 15:02:00	12.2	11.8	-0.4	0.00	0.00	0.00	1.5	SE
10/21/2023 15:03:00	12.2	11.8	-0.3	0.00	0.00	0.00	1.5	ESE
10/21/2023 15:04:00	12.1	11.9	-0.2	0.00	0.00	0.00	1.5	NE
10/21/2023 15:05:00	10.2	12.7	2.5	0.00	0.00	0.00	1.5	NNE
10/21/2023 15:06:00	10.0	12.7	2.7	0.00	0.00	0.00	1.5	S
10/21/2023 15:07:00	10.4	12.7	2.3	0.00	0.00	0.00	1.5	SSE
10/21/2023 15:08:00	12.0	11.7	-0.3	0.00	0.00	0.00	1.5	SSE
10/21/2023 15:09:00	11.7	13.0	1.4	0.00	0.00	0.00	1.4	NNW
10/21/2023 15:10:00	13.3	11.9	-1.4	0.00	0.00	0.00	1.4	SSE
10/21/2023 15:11:00	12.7	11.0	-1.7	0.00	0.00	0.00	1.4	NNW
10/21/2023 15:12:00	12.6	10.9	-1.7	0.00	0.00	0.00	1.3	NW
10/21/2023 15:13:00	12.8	10.2	-2.6	0.00	0.00	0.00	1.3	NW
10/21/2023 15:14:00	12.6	12.0	-0.7	0.00	0.00	0.00	1.2	SSE
10/21/2023 15:15:00	12.0	11.8	-0.2	0.00	0.00	0.00	1.2	SSW
10/21/2023 15:16:00	11.8	12.1	0.3	0.00	0.00	0.00	1.2	SSE
10/21/2023 15:17:00	11.9	13.3	1.4	0.00	0.00	0.00	1.2	N



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
10/21/2023 15:18:00	12.6	12.6	0.0	0.00	0.00	0.00	1.2	S
10/21/2023 15:19:00	12.6	11.8	-0.8	0.00	0.00	0.00	1.2	WSW
10/21/2023 15:20:00	13.1	10.8	-2.3	0.00	0.00	0.00	1.2	NW
10/21/2023 15:21:00	13.2	12.3	-0.9	0.00	0.00	0.00	1.2	NW
10/21/2023 15:22:00	12.3	15.5	3.2	0.00	0.00	0.00	1.2	SE
10/21/2023 15:23:00	11.3	15.6	4.3	0.00	0.00	0.00	1.3	SSE
10/21/2023 15:24:00	11.1	13.8	2.7	0.00	0.00	0.00	1.3	NW
10/21/2023 15:25:00	9.5	13.6	4.1	0.00	0.00	0.00	1.3	ESE
10/21/2023 15:26:00	9.3	13.1	3.8	0.00	0.00	0.00	1.3	WNW
10/21/2023 15:27:00	8.7	12.9	4.2	0.00	0.00	0.00	1.3	ESE
10/21/2023 15:28:00	8.4	12.6	4.2	0.00	0.00	0.00	1.3	SSW
10/21/2023 15:29:00	7.8	10.9	3.1	0.00	0.00	0.00	1.2	S
10/21/2023 15:30:00	7.2	11.0	3.8	0.00	0.00	0.00	1.2	NW
10/21/2023 15:31:00	6.8	10.4	3.6	0.00	0.00	0.00	1.2	ESE
10/21/2023 15:32:00	6.0	9.0	3.0	0.00	0.00	0.00	1.2	S
10/21/2023 15:33:00	5.1	8.8	3.8	0.00	0.00	0.00	1.2	E
10/21/2023 15:34:00	4.8	8.6	3.8	0.00	0.00	0.00	1.1	SE
10/21/2023 15:35:00	4.4	8.6	4.2	0.00	0.00	0.00	1.2	E
10/21/2023 15:36:00	4.1	6.8	2.6	0.00	0.00	0.00	1.2	SE
10/21/2023 15:37:00	4.6	3.4	-1.2	0.00	0.00	0.00	1.2	N
10/21/2023 15:38:00	3.9	3.4	-0.5	0.00	0.00	0.00	1.2	NW
10/21/2023 15:39:00	3.9	3.2	-0.7	0.00	0.00	0.00	1.2	WNW
10/21/2023 15:40:00	3.7	3.2	-0.6	0.00	0.00	0.00	1.2	ENE
10/21/2023 15:41:00	3.7	3.2	-0.5	0.00	0.00	0.00	1.2	SSE
10/21/2023 15:42:00	3.6	3.4	-0.2	0.00	0.00	0.00	1.2	SE
10/21/2023 15:43:00	3.7	3.3	-0.5	0.00	0.00	0.00	1.2	NNW
10/21/2023 15:44:00	3.8	3.2	-0.6	0.00	0.00	0.00	1.2	WSW
10/21/2023 15:45:00	3.9	3.0	-0.9	0.00	0.00	0.00	1.3	N
10/21/2023 15:46:00	3.9	3.2	-0.7	0.00	0.00	0.00	1.2	NNW
10/21/2023 15:47:00	4.0	3.3	-0.7	0.00	0.00	0.00	1.2	ENE
10/21/2023 15:48:00	4.0	3.3	-0.7	0.00	0.00	0.00	1.3	NW
10/21/2023 15:49:00	4.0	3.6	-0.4	0.00	0.00	0.00	1.3	SE
10/21/2023 15:50:00	4.0	3.6	-0.3	0.00	0.00	0.00	1.3	NW

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
10/21/2023 15:51:00	3.7	3.9	0.2	0.00	0.00	0.00	1.2	WNW
10/21/2023 15:52:00	3.3	4.1	0.9	0.00	0.00	0.00	1.2	SE
10/21/2023 15:53:00	3.5	3.9	0.5	0.00	0.00	0.00	1.2	SE
10/21/2023 15:54:00	3.3	3.8	0.5	0.00	0.00	0.00	1.3	S
10/21/2023 15:55:00				0.00	0.00	0.00	1.3	NW
10/21/2023 15:56:00				0.00	0.00	0.00	1.2	SE
10/21/2023 15:57:00				0.00	0.00	0.00	1.3	NW
10/21/2023 15:58:00	2.6	6.1	3.5	0.00	0.00	0.00	1.2	ESE
10/21/2023 15:59:00	5.5	4.2	-1.3	0.00	0.00	0.00	1.2	SW
10/21/2023 16:00:00	4.7	4.1	-0.7	0.00	0.00	0.00	1.2	NW
10/21/2023 16:01:00	4.1	3.8	-0.4	0.00	0.00	0.00	1.2	W
10/21/2023 16:02:00	4.1	3.4	-0.7	0.00	0.00	0.00	1.2	ESE
10/21/2023 16:03:00	3.9	3.9	0.0	0.00	0.00	0.00	1.2	NW
10/21/2023 16:04:00	5.0	4.0	-1.1	0.00	0.00	0.00	1.2	SSW
10/21/2023 16:05:00	5.4	3.9	-1.6	0.00	0.00	0.00	1.1	SE
10/21/2023 16:06:00	5.1	4.8	-0.2	0.00	0.00	0.00	1.2	ESE
10/21/2023 16:07:00	5.0	4.7	-0.2	0.00	0.00	0.00	1.2	ESE
10/21/2023 16:08:00	5.0	4.5	-0.5	0.00	0.00	0.00	1.2	W
10/21/2023 16:09:00	5.5	4.4	-1.1	0.00	0.00	0.00	1.2	SSE
10/21/2023 16:10:00	5.4	4.3	-1.1	0.00	0.00	0.00	1.2	WSW
10/21/2023 16:11:00	5.2	4.7	-0.5	0.00	0.00	0.00	1.2	NW
10/21/2023 16:12:00	5.1	4.5	-0.7	0.00	0.00	0.00	1.2	NNE
10/21/2023 16:13:00	5.0	4.3	-0.7	0.00	0.00	0.00	1.2	NW
10/21/2023 16:14:00	4.8	4.4	-0.4	0.00	0.00	0.00	1.2	SSW
10/21/2023 16:15:00	4.9	4.5	-0.4	0.00	0.00	0.00	1.2	NW
10/21/2023 16:16:00	5.0	4.7	-0.3	0.00	0.00	0.00	1.2	NW
10/21/2023 16:17:00	5.0	5.0	0.0	0.00	0.00	0.00	1.2	NNW
10/21/2023 16:18:00	5.0	4.7	-0.3	0.00	0.00	0.00	1.2	N
10/21/2023 16:19:00	4.4	4.5	0.1	0.00	0.00	0.00	1.2	NNW
10/21/2023 16:20:00	3.9	4.5	0.6	0.00	0.00	0.00	1.2	SSE