

**DAILY AIR MONITORING REPORT**  
**250 Water Street Remediation Site**  
**Manhattan, New York**

05/17/22

Project number: 170381202

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Rev. No. 0

Dust Action Level ( $\mu\text{g}/\text{m}^3$ )

100

VOC Action Level (ppm)

5

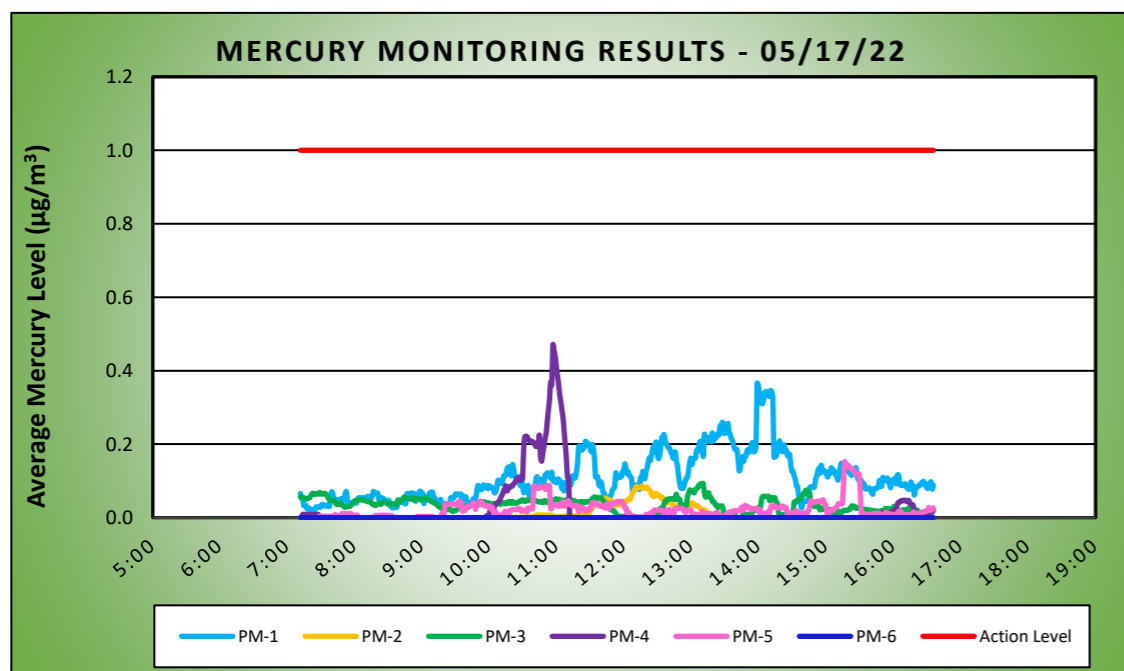
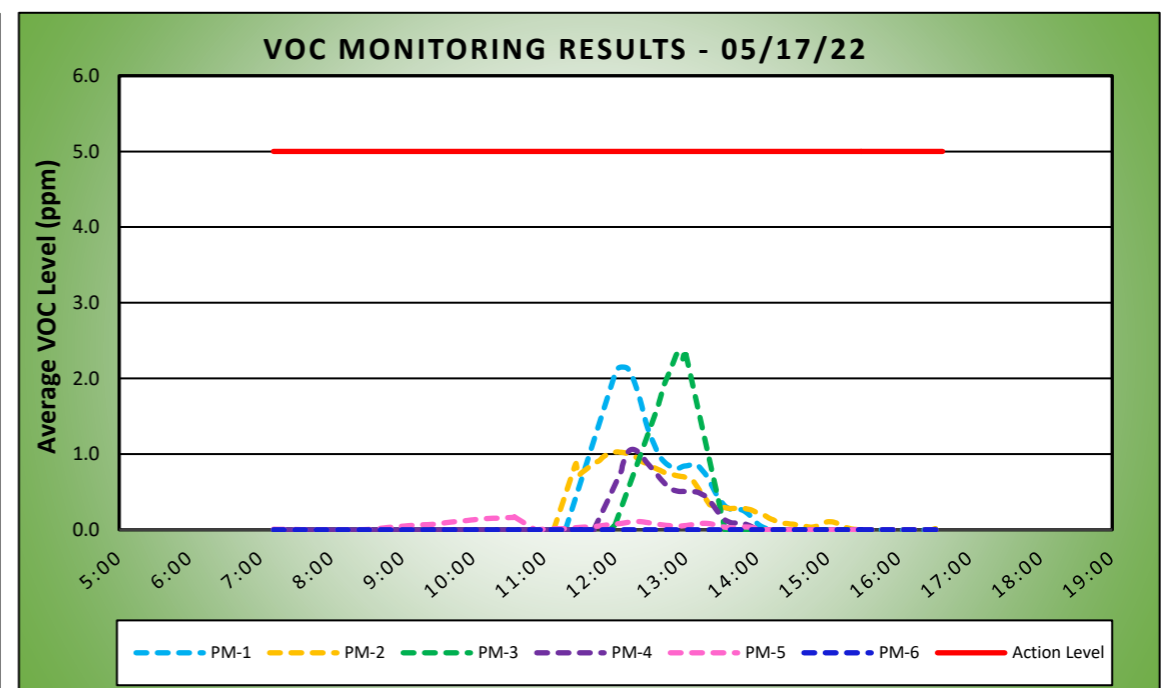
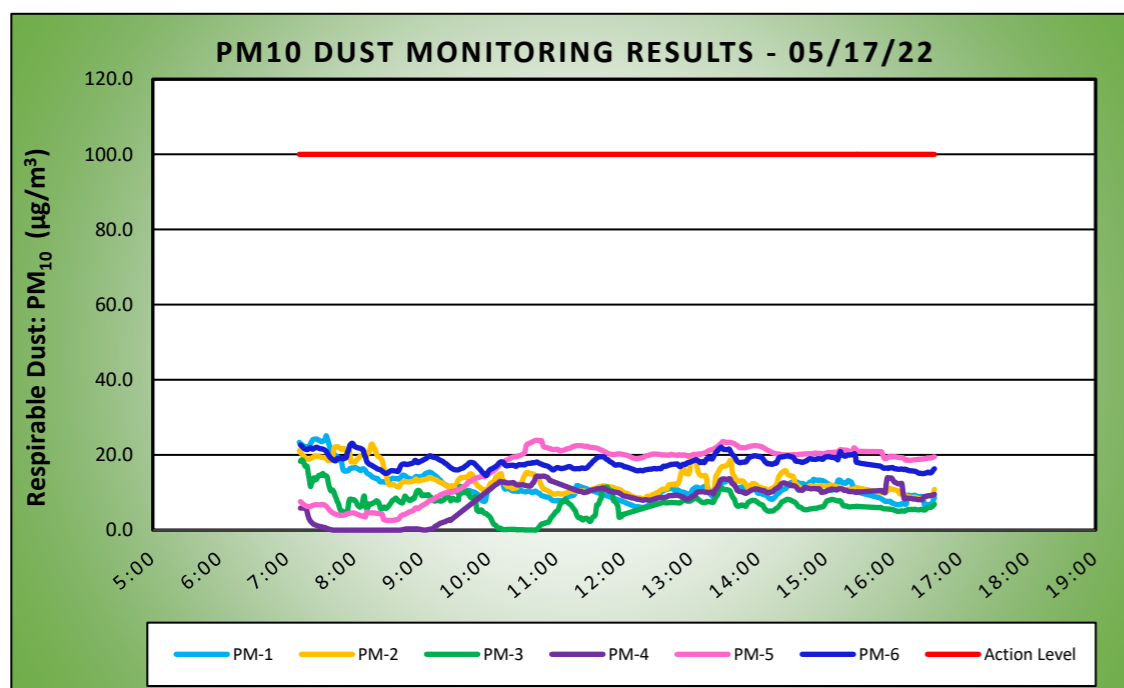
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )

1.0

Weather Data Range for Work Day		Wind Direction	ESE, SE	Relative Humidity (%)	22.8 - 46.3	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	68.3 - 80.0	Wind Speed (MPH)	0.8 - 7.0	Barometer (inHg)	29.77 - 29.84			

Station Location Work Area	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Maximum 15 Minute Avg Dust Reading	Daily Avg. VOC Concentration (ppm)	Max 15 Minute VOC Concentration (ppm)	Time of Max 15 Minute Avg VOC Reading
PM-1	11.8	25.1	7:35	0.2	2.2	12:06
PM-2	13.1	22.9	8:16	0.2	1.0	12:02
PM-3	6.9	18.7	7:13	0.2	2.3	12:52
PM-4	8.0	14.4	10:43	0.1	1.1	12:15
PM-5	16.5	23.9	10:42	0.0	0.2	10:35
PM-6	18.1	23.1	7:58	0.0	0.0	7:11

Station Location Work Area	Daily Avg. Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.1	0.4	13:59
PM-2	0.0	0.1	12:17
PM-3	0.0	0.1	13:10
PM-4	0.0	0.5	10:57
PM-5	0.0	0.2	15:17
PM-6	0.0	0.0	7:12



**Air Monitoring Notes:**

- A spare handheld Jerome® J505 mercury analyzer was used at perimeter station PM-3 from 6:57am to 11:40am due to a damaged data cable during CAMP deployment. An additional dedicated field personnel was stationed with the J505. Mercury vapor data obtained from the spare Jerome® J505 was included in the Daily Air Monitoring Report and is reflected in the table above.
- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions within the work zone and throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.13  $\mu\text{g}/\text{m}^3$ .
- Langan used a handheld PID to monitor VOC concentrations within the work zone and throughout the site. VOC concentrations were not detected above background concentrations throughout the work day.
- Work was halted temporarily to perform equipment maintenance on the CAMP stations for time frames up to 25 minutes at a time. During maintenance at each station, concentrations of PM10, VOCs, and mercury vapor were intermittently not transmitted through the telemetry system. The mercury vapor data from these intermittent gaps were manually downloaded from each unit and are reflected in the Daily Air Monitoring Report and the table above.
- Perimeter CAMP stations were brought offline, one at a time, to perform the maintenance and the proximity of each station was screened by the dedicated CAMP monitor using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID.
  - Instantaneous concentrations of mercury vapor detected with the Jerome® J505 unit ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.10  $\mu\text{g}/\text{m}^3$  across all perimeter CAMP stations.
  - Instantaneous VOC concentrations detected with the handheld PID were recorded at 0.0 ppm across all perimeter CAMP stations.
- Fugitive dust and odors were not observed migrating from the site at any time throughout the work day.
- Prior to discontinuing the CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station. CAMP stations were discontinued at 4:38pm at the conclusion of ground-intrusive activities.
  - Mercury vapor concentrations at each CAMP station was recorded at 0.00  $\mu\text{g}/\text{m}^3$ .
  - VOC concentrations at each CAMP station were recorded at 0.0 ppm.

