



DAILY AIR MONITORING REPORT

250 Water Street Remediation Site

Manhattan, New York

05/18/22

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

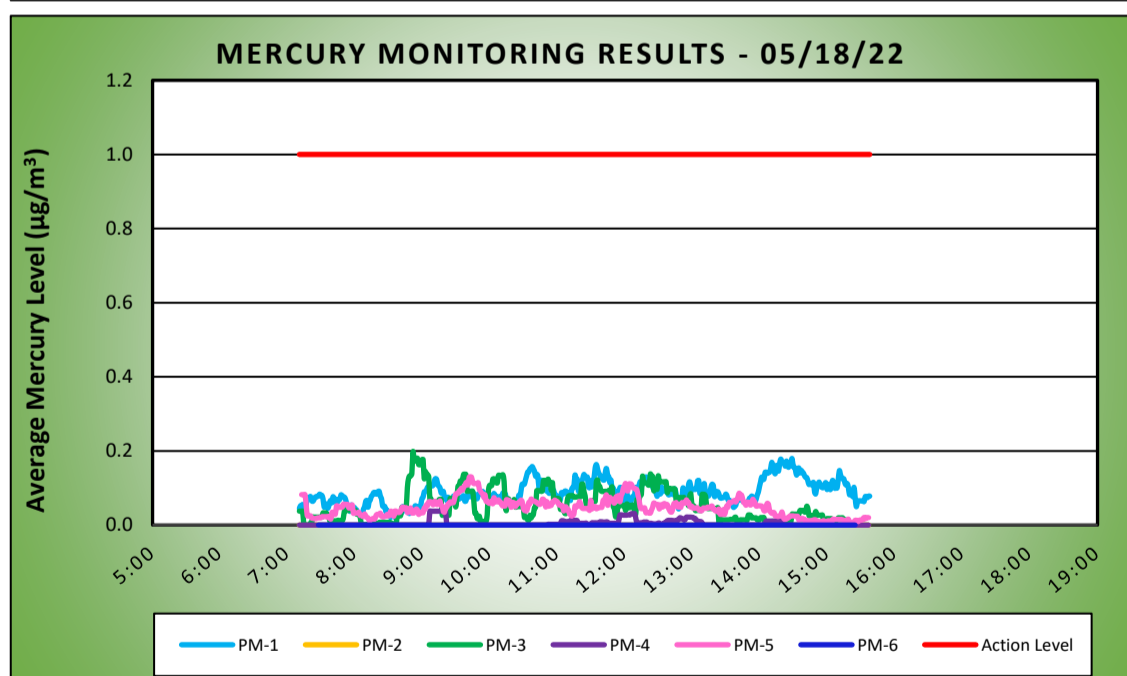
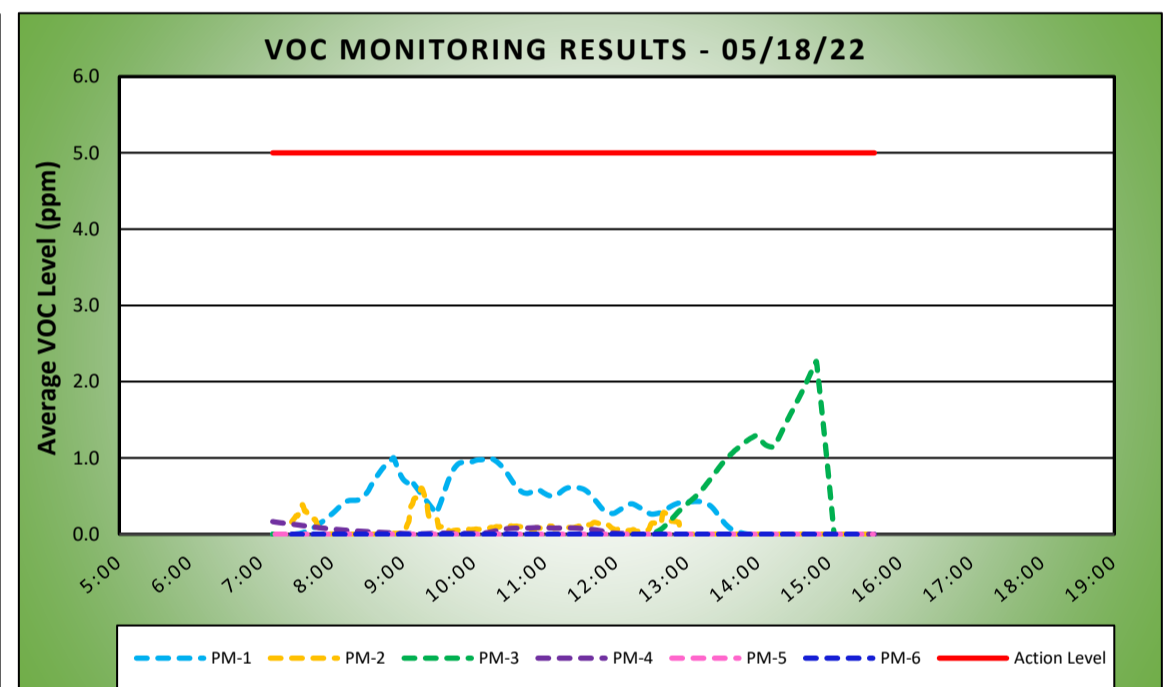
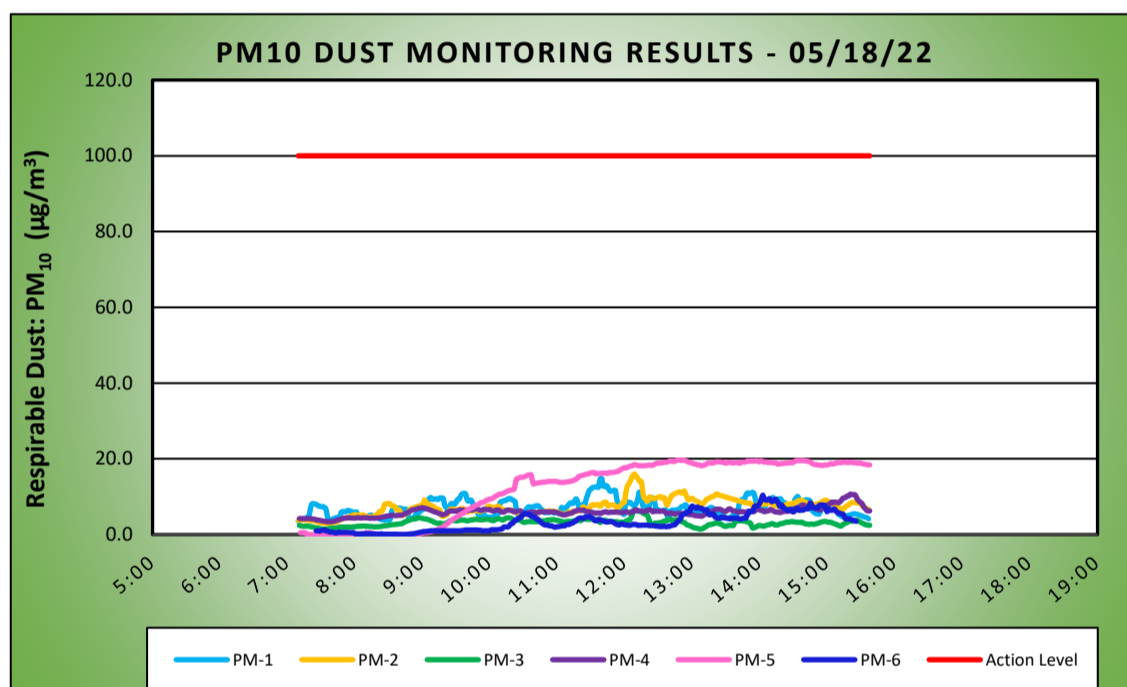
Hg Action Level ($\mu\text{g}/\text{m}^3$)

1.0

Weather Data Range for Work Day		Wind Direction	NW	Relative Humidity (%)	23.0 - 51.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	55.0 - 73.0	Wind Speed (MPH)	3.9 - 6.0	Barometer (inHg)	29.90 - 30.00			

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	7.0	14.9	11:39	0.4	1.0	8:52
PM-2	7.2	16.0	12:09	0.1	0.6	9:15
PM-3	3.1	6.5	12:09	0.3	2.3	14:49
PM-4	6.0	10.7	15:21	0.0	0.2	7:10
PM-5	12.0	19.7	12:48	0.0	0.0	7:12
PM-6	3.3	10.4	14:03	0.0	0.0	7:26

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	0.2	14:29
PM-2	0.0	0.0	7:11
PM-3	0.1	0.2	8:52
PM-4	0.0	0.0	9:07
PM-5	0.0	0.1	9:42
PM-6	0.0	0.0	7:28



Air Monitoring Notes:

- Langan used two handheld Jerome® J505 mercury analyzers to monitor ambient air conditions throughout the site and within the work zone.
 - Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.31 $\mu\text{g}/\text{m}^3$.
 - One instantaneous mercury vapor concentration was detected using the handheld Jerome® J505 mercury vapor analyzer throughout the site at 1.89 $\mu\text{g}/\text{m}^3$ at 11:59am. The instantaneous concentration was the only reading recorded above the action levels and did not result in a 15-minute time-weighted-average above the action level established in the CAMP. During this time, CCJV was installing sheet piles in the southwestern portion of the site, however, the mercury vapor concentration recorded with the Jerome® J505 unit within the work zone was 0.00 $\mu\text{g}/\text{m}^3$. No on-site source of mercury vapor was identified.
 - Instantaneous mercury vapor concentrations within the work zone ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.05 $\mu\text{g}/\text{m}^3$.
- 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.
- Perimeter air monitoring station PM-2 was relocated to the southern sidewalk of Water Street from 1:24pm to 3:37pm during installation of steel sheet piles in the southwestern portion of the site.
 - Instantaneous mercury vapor concentrations recorded with the Jerome® J505 mercury vapor analyzer between the work zone and perimeter CAMP station PM-2 ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.11 $\mu\text{g}/\text{m}^3$.
- 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 sequentially between 3:22pm to 3:38pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station were recorded ranging from 0.00 $\mu\text{g}/\text{m}^3$ to 0.01 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station were recorded at 0.0 ppm.



