

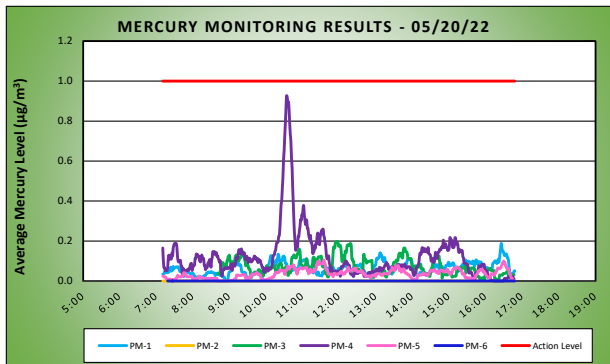
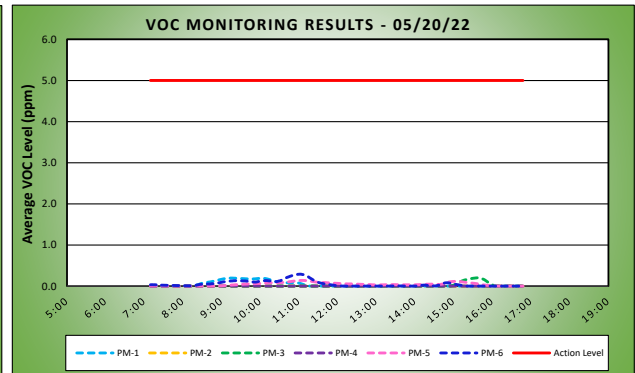
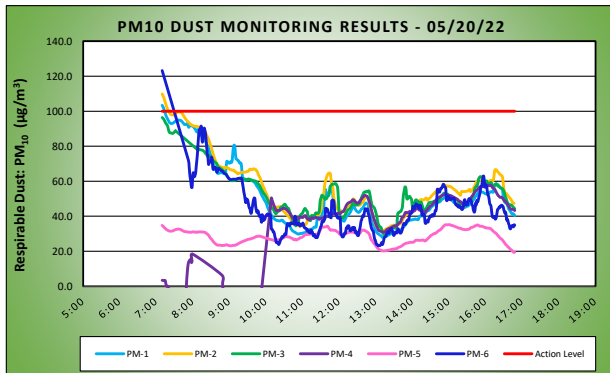
**DAILY AIR MONITORING REPORT**  
**250 Water Street Remediation Site**  
**Manhattan, New York**

05/20/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By:	
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	SSW	Relative Humidity (%)	56.1 - 83.5	Daily Rain (in)	0.01	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	57.7 - 71.4	Wind Speed (MPH)	0.5 - 8.3	Barometer (inHg)	30.01 - 30.05			

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	52.7	*103.4	7:10	0.0	0.2	9:16
PM-2	57.8	*109.9	7:10	0.0	0.0	7:10
PM-3	54.0	96.4	7:10	0.0	0.2	15:37
PM-4	32.6	57.8	16:02	0.0	0.0	7:10
PM-5	28.6	35.2	15:01	0.0	0.1	11:06
PM-6	51.6	*123.2	7:10	0.1	0.3	11:02

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	16:26
PM-2	0.0	0.0	7:11
PM-3	0.1	0.2	11:56
PM-4	0.1	**0.9	10:34
PM-5	0.0	0.1	11:35
PM-6	0.0	0.0	7:19



**Air Monitoring Notes:**

- \*Particulate concentrations exceeded the action level established in the CAMP from 7:10am to 7:20am at perimeter CAMP stations PM-1, PM-2, and PM-6, upon starting community air monitoring for the day. Elevated background concentrations of PM10 were attributed to poor air quality in New York City, which was listed as "Moderate" to "Unhealthy for Sensitive Groups" in the air quality index (AQI). Maintenance was performed on all perimeter air monitoring stations and site work did not begin until about 8:35am, when background concentrations returned below the action level.
- \*\*Instantaneous mercury vapor concentrations were recorded at concentrations ranging from 0.7  $\mu\text{g}/\text{m}^3$  to 1.3  $\mu\text{g}/\text{m}^3$  at perimeter CAMP station PM-4, which was located over 200 feet away from the work area along Peck Slip, from 10:24am to 10:34am. During this time, no ground-intrusive activities were ongoing at the site, however, work was immediately halted and Mercon-X<sup>®</sup> was sprayed on exposed soil/fill in the southwestern portion of the site as a proactive measure. The instantaneous mercury vapor concentrations did not result in a 15-minute time-weighted average exceedance of the CAMP action levels and the dedicated CAMP monitor investigated the elevated mercury vapor readings upon notification via the remote telemetry system.
  - The elevated readings were determined to be erroneous and caused by pinched tubing connected to the Jerome<sup>®</sup> J405 mercury vapor analyzer within the perimeter CAMP station. The dedicated CAMP monitor removed the tubing and reconnected it to the Jerome<sup>®</sup> J405 mercury vapor analyzer and mercury vapor concentrations returned to background conditions prior to resuming work.
  - Instantaneous mercury vapor concentrations were recorded at perimeter station PM-4 using the handheld Jerome<sup>®</sup> J505 mercury vapor analyzer during equipment troubleshooting and concentrations ranged from 0.04  $\mu\text{g}/\text{m}^3$  to 0.11  $\mu\text{g}/\text{m}^3$  between 10:35am to 10:44am.
  - Instantaneous mercury vapor concentrations within the work zone ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.01  $\mu\text{g}/\text{m}^3$  between 10:24am and 10:44am.
- Langan used two handheld Jerome<sup>®</sup> 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 0.59  $\mu\text{g}/\text{m}^3$ , with the exception of two instantaneous readings discussed below.
    - Two instantaneous mercury vapor concentrations were recorded at 10.75  $\mu\text{g}/\text{m}^3$  (at 11:34am) and at 1.93  $\mu\text{g}/\text{m}^3$  (at 12:36pm) while CCIV was using acetylene gas to weld steel walers to the previously installed sheet pile wall. In coordination with NYSDEC (on site), each instance was the result of direct screening of the fumes generated by welding activities to confirm interference with the handheld Jerome<sup>®</sup> J505 unit.
  - 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.
- The DustTrak unit within perimeter CAMP station PM-4 was recalibrated at 9:52am due to negative PM10 concentrations being recorded. Data logging resumed at 9:54am and readings returned to normal conditions.
- Perimeter air monitoring station PM-2 was relocated to the southern sidewalk of Water Street from 6:55am to 4:47pm.
- A dedicated CAMP monitor was stationed with the work zone air monitoring station, which was located between the work zone and perimeter CAMP station PM-2 (across from Water Street), to monitor the units for potential exceedances of the action levels established in the CAMP.
  - PM10, VOCs and mercury vapor concentrations did not exceed the action level established in the CAMP.
  - The work zone station was located upwind from the work area.
  - Elevated concentrations of PM10, VOCs and mercury vapor were not observed at perimeter CAMP station PM-2, which was located across Water Street, during ground-intrusive activities.
  - Fugitive dust or odors were not observed to be migrating off-site.
- 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 4:47pm 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 0.04  $\mu\text{g}/\text{m}^3$ .
  - VOC concentrations at each CAMP station were recorded at 0.0 ppm.

