



DAILY AIR MONITORING REPORT

250 Water Street Remediation Site

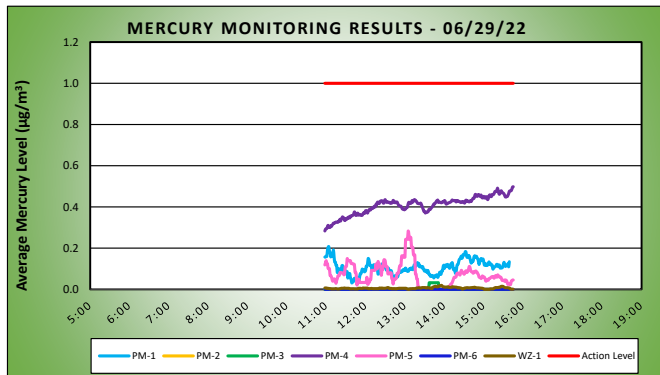
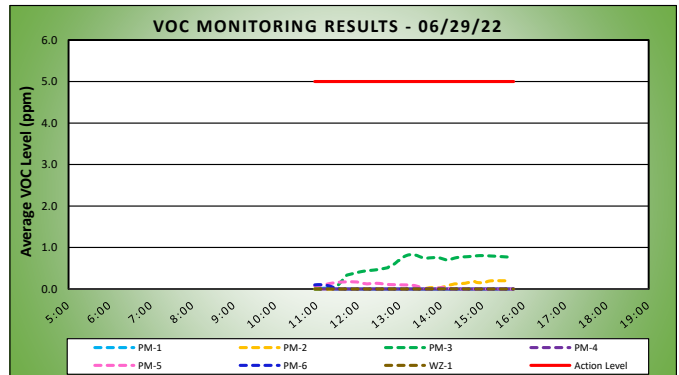
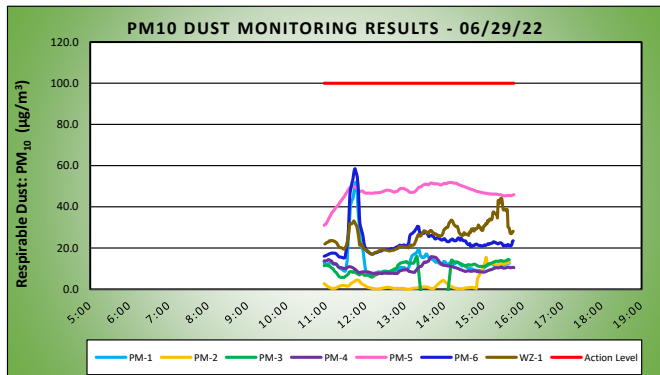
Manhattan, New York

06/29/22	
Project number: 170381202	
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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	SE	Relative Humidity (%)	31.3 - 38.3	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	78.9 - 84.3	Wind Speed (MPH)	1.3 - 5.8	Barometer (inHg)	30.24 - 30.31			

Station Location Area	Work	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		14.4	52.0	11:45	0.0	0.0	11:13
PM-2		3.3	15.4	15:04	0.1	0.2	15:19
PM-3		6.2	16.1	13:18	0.6	0.8	13:19
PM-4		10.1	15.8	13:41	0.0	0.0	11:05
PM-5		46.7	51.9	14:09	0.1	0.2	11:49
PM-6		23.4	58.5	11:44	0.0	0.1	11:02
WZ-1		26.0	44.1	15:27	0.0	0.0	11:05

Station Location Area	Work	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	11:04
PM-2		0.0	0.0	10:58
PM-3		0.0	0.0	13:37
PM-4		0.4	0.5	15:45
PM-5		0.1	0.3	13:05
PM-6		0.0	0.0	10:58
WZ-1		0.0	0.0	10:58



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at seven locations for particulate matter less than 10 microns in diameter (PM10), volatile organic compounds (VOCs), and mercury vapor, during ground-intrusive activities. Fifteen-minute time-weighted average concentrations of PM10, VOCs and mercury vapor did not exceed the action levels established in the site community air monitoring plan (CAMP) for the duration of work activities.

- CAMP was not implemented until 10:42 am due to a lack of ground-intrusive activities.

Background Concentrations

Background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld photoionization detector (PID), respectively.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.01 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Ambient Air (Handheld Jerome® J505 and Handheld PID)

Langan used a handheld Jerome® J505 mercury vapor analyzer and a handheld PID to monitor ambient air conditions at various heights throughout the site.

- Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.06 $\mu\text{g}/\text{m}^3$.
- Instantaneous VOC concentrations were not recorded above background concentrations throughout the work day.

Equipment Troubleshooting

The DustTrak unit at perimeter CAMP station PM-3 was recalibrated at 1:54 pm due to negative readings being recorded. PM10 readings returned to background conditions following equipment recalibration and data logging resumed at 1:57 pm.

Prior to CAMP Shutdown

Prior to discontinuing CAMP, VOC and mercury vapor concentrations were confirmed to return to background conditions at each p perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued between 3:38 pm and 3:45 pm at the conclusion of groundintrusive activities.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.02 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.



