LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

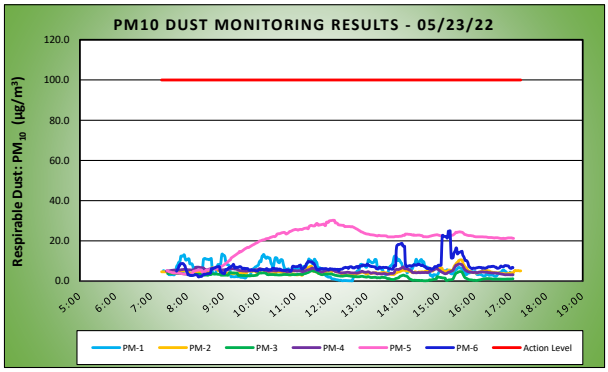
DAILY AIR MONITORING REPORT
250 Water Street Remediation Site
Manhattan, New York

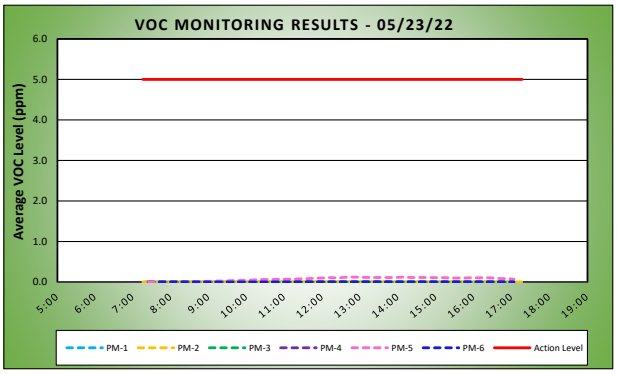
05/23/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By: Lauren Roper, Gabriella DeGennaro	
Dust Action Level (µg/m³)	100
VOC Action Level (ppm)	5
Hg Action Level (µg/m³)	1.0

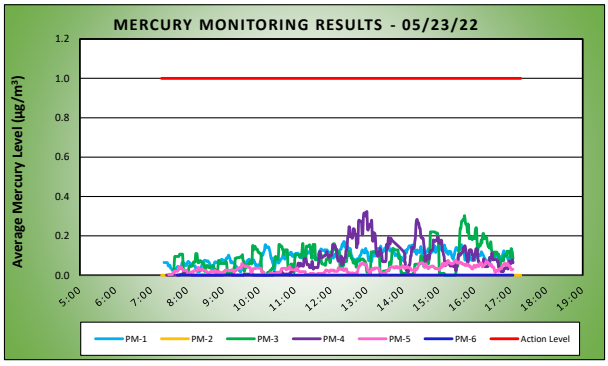
Weather Data Range for Work Day		Wind Direction	NE	Relative Humidity (%)	21.5 - 53.7	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	62.4 - 76.2	Wind Speed (MPH)	1.2 - 7.3	Barometer (inHg)	30.22 - 30.28			

Station Location Work Area	Daily Avg. Dust Concentration (µg/m³)	Max 15 Minute Dust Concentration (µg/m³)	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	6.0	13.5	8:58	0.0	0.0	7:20
PM-2	4.6	10.6	15:36	0.0	0.0	7:16
PM-3	2.5	5.3	11:28	0.0	0.0	7:26
PM-4	5.0	8.6	15:35	0.0	0.0	7:24
PM-5	19.6	30.3	12:03	0.1	0.1	12:45
PM-6	7.5	25.1	15:19	0.0	0.0	7:42

Station Location Work Area	Daily Avg. Mercury Concentration (µg/m³)	Max 15 Minute Mercury Concentration (µg/m³)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.1	0.2	12:22
PM-2	0.0	0.0	7:17
PM-3	0.1	0.3	15:43
PM-4	0.1	0.3	13:00
PM-5	0.0	0.1	15:28
PM-6	0.0	0.0	7:43



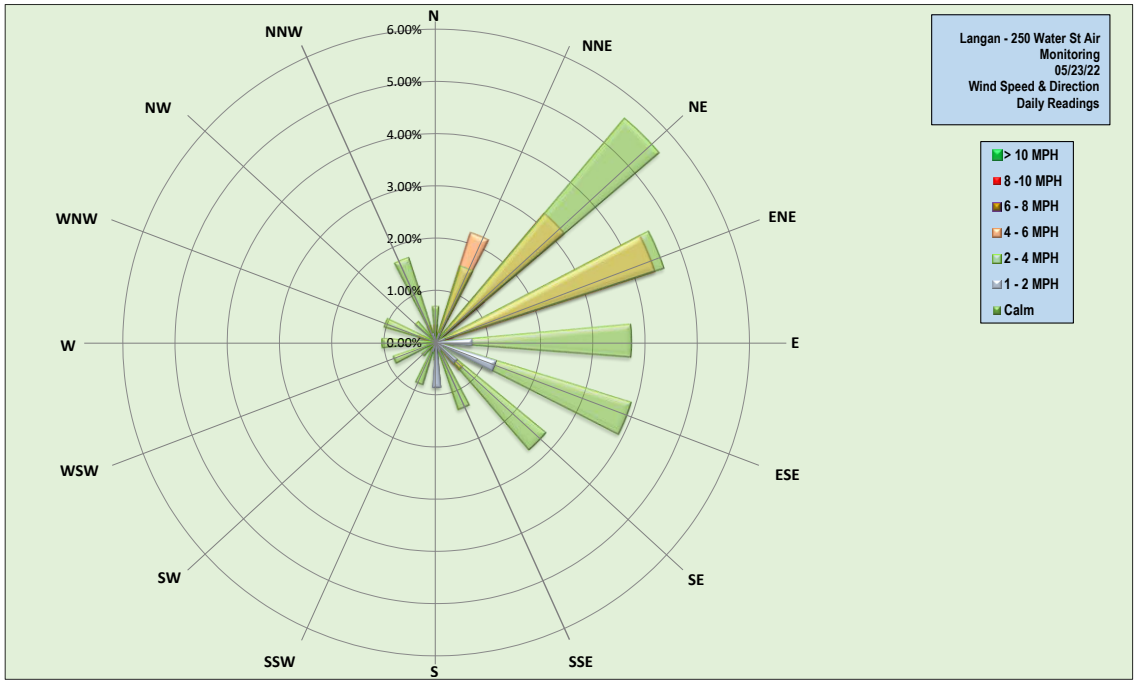




Air Monitoring Notes:

- 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 µg/m³ to 0.04 µg/m³.
  - Instantaneous mercury vapor concentrations within the work zone ranged from 0.00 µg/m³ to 0.10 µg/m³.
- Langan used a handheld PID to monitor VOC concentrations within the work zone and throughout the site. VOC concentrations we re not detected above background concentrations throughout the work day.
- Instantaneous mercury vapor concentrations were recorded at concentrations ranging from 0.1 µg/m ³ to 1.8 µg/m³ at perimeter CAMP station PM-3 (between 2:40pm and 2:55pm), which was located over 100 feet away and upwind from the work area along Water Street. During this time, no ground-intrusive activities were ongoing at the site and CCJV was welding a steel waler to the interior of the previously installed sheet pile wall in the southwestern portion of the site. The instantaneous mercury vapor concentrations did not result in a 15 minute time - weighted average exceedance of the CAMP action level and mercury vapor concentrations at the work zone during this time ranged from 0.00 µg/m³ to 0.06 µg/m³, however, the dedicated CAMP monitor investigated the elevated mercury vapor readings upon notification via the remote telemetry system.
  - Instantaneous mercury vapor concentrations were collected at perimeter station PM-3 using the handheld Jerome® J505 mercury vapor analyzer during equipment troubleshooting from 2:56pm to 3:28pm and mercury vapor concentrations were recorded at 0.0 µg/m³.
  - A 'warm-up' function was run on the Jerome® J405 mercury vapor analyzer at 2:56pm and the unit was disconnected and allowed to cool down from 3:01pm to 3:20pm.
  - Data logging using the Jerome® J405 mercury vapor analyzer resumed at 3:29pm.
- Perimeter air monitoring station PM-2 was relocated to the southern sidewalk of Water Street from 7:02am to 5:17pm.
- 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.
  - Elevated concentrations of PM10, VOCs and mercury vapor were not observed at perimeter CAMP station PM-2, which was located across Water Street.
  - 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 using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued sequentially from 5:04pm to 5:17pm at the conclusion of ground-intrusive activities.
  - Mercury vapor concentrations at each CAMP station were recorded at 0.00 µg/m³.
  - VOC concentrations at each CAMP station were recorded at 0.0 ppm.

EMILCOTT
environmental, health & safety experts


Langan - 250 Water St Air Monitoring
05/23/22
Wind Speed & Direction
Daily Readings
> 10 MPH
8 -10 MPH
6 - 8 MPH
4 - 6 MPH
2 - 4 MPH
1 - 2 MPH
Calm
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%