LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

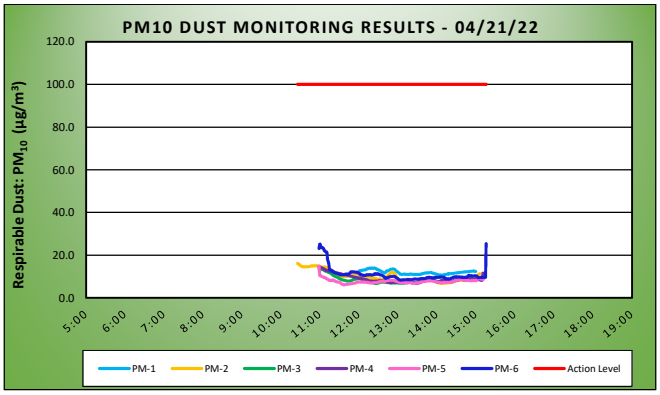
DAILY AIR MONITORING REPORT
250 Water Street Remediation Site
Manhattan, New York

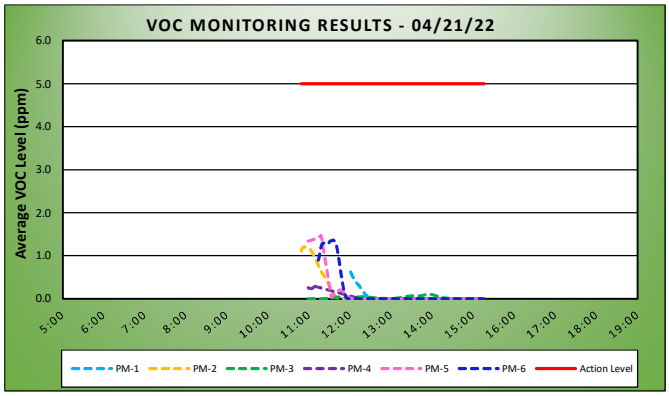
04/21/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By: Lauren Roper	
Dust Action Level (µg/m³)	100
VOC Action Level (ppm)	5
Hg Action Level (µg/m³)	1.0

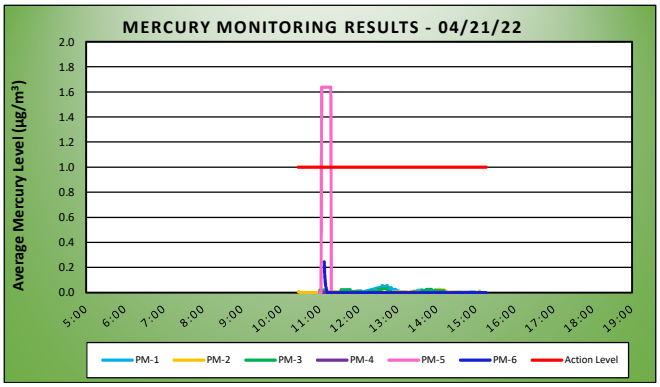
Weather Data Range for Work Day		Wind Direction	SE	Relative Humidity (%)	31.8 - 47.1	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	55.5 - 58.8	Wind Speed (MPH)	2.7 - 10.8	Barometer (inHg)	30.44 - 30.56			

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	12.6	14.0	12:19	0.2	0.6	12:01
PM-2	10.3	16.2	10:26	0.2	1.2	10:53
PM-3	8.6	13.4	11:04	0.0	0.1	13:58
PM-4	8.9	14.6	10:59	0.0	0.3	11:09
PM-5	9.8	14.9	10:59	0.2	1.5	11:18
PM-6	12.0	25.3	15:16	0.6	1.4	11:35

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	0.0	0.1	12:36
PM-2	0.0	0.0	14:02
PM-3	0.0	0.0	12:35
PM-4	0.0	0.0	11:00
PM-5	0.1	*1.6	11:03
PM-6	0.0	0.2	11:07







Air Monitoring Notes:

*Mercury vapor concentrations exceeded the action level established in the CAMP from 11:03am to 11:17am at perimeter station PM-5, located along Pearl Street. The exceedances were determined to be erroneous high readings resulting from an equipment malfunction and not a result of ground-intrusive activities associated with construction activities.

- One instantaneous mercury vapor concentration causing the erroneous exceedance was recorded at 24.6 µg/m³. Ground-intrusive activities were not ongoing at the time of the exceedance and UBS was in the process of assembling a plywood panel for the perimeter construction fencing.
- Langan used a Jerome® J505 mercury vapor analyzer to collect readings from the station intake and instantaneous mercury vapor concentrations ranged from 0.07 µg/m³ to 0.10 µg/m³.
- The Jerome® J405 was temporarily disconnected from the remote telemetry system to run a "warm-up" of the sensor and readings returned to background conditions. The Jerome® J405 continued to read 0.00 µg/m³ for the remainder of the day.

- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions throughout the site. Instantaneous mercury vapor concentrations ranged from 0.05 µg/m³ to 0.11 µg/m³.
- Perimeter air monitoring station PM-6 was relocated to the northern sidewalk of Pearl Street from 11:34am to 2:26pm during installation of the perimeter construction fence along the northern boundary of the 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. The CAMP stations were shut down at the following times: PM-1 - 3:00pm; PM-2 - 3:06pm; PM-3 - 3:11pm; PM-4 - 3:11pm; PM-5 - 3:12pm; and PM-6 - 3:16pm.
- Due to a downloading error on the handheld Jerome® J505 mercury analyzer, mercury vapor concentrations collected through the "Auto Sampling" function were not recorded.
- Perimeter CAMP station PM-1 did not record dust or mercury vapor data from 10:24am to 11:29am and from 2:18pm to 2:41pm due to a malfunction with the telemetry system. The dedicated CAMP monitor (with the handheld Jerome® J505 mercury analyzer) was located between the work area and perimeter CAMP station PM-1 during these times and mercury vapor was not detected at a concentration exceeding the action level established in the CAMP.

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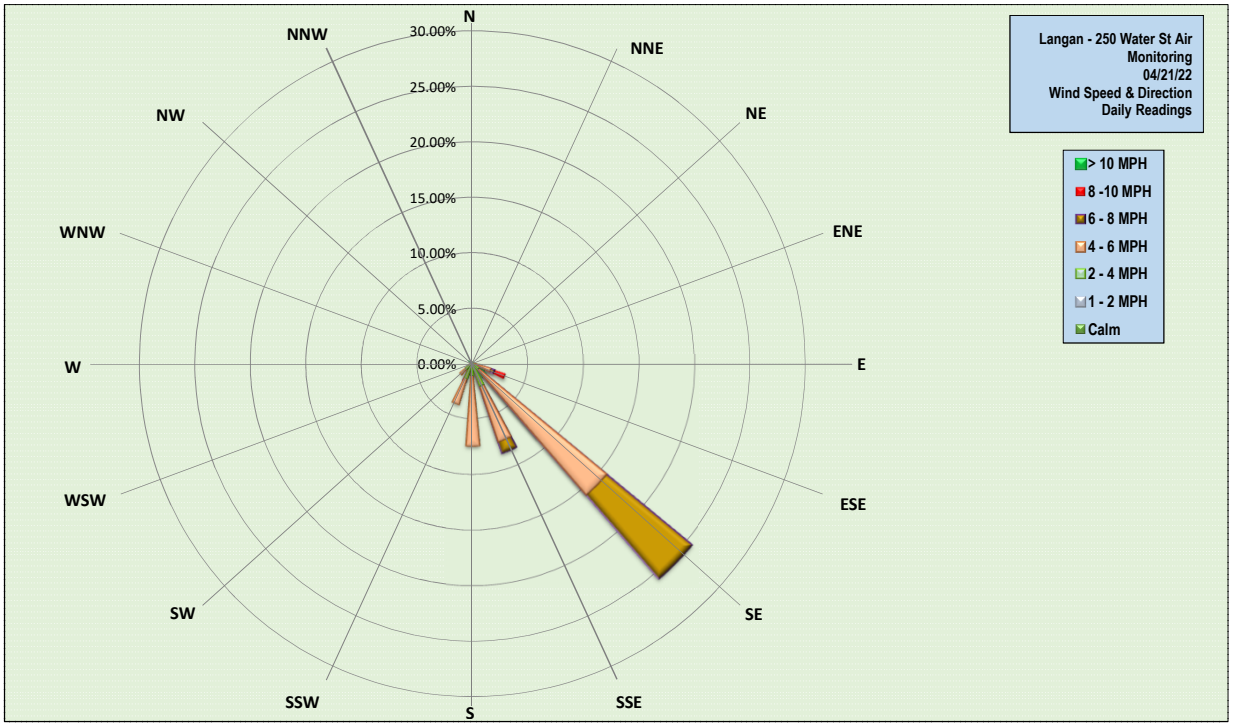
Langan - 250 Water St Air Monitoring
04/21/22
Wind Speed & Direction
Daily Readings
> 10 MPH
8 -10 MPH
6 - 8 MPH
4 - 6 MPH
2 - 4 MPH
1 - 2 MPH
Calm
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
30.00%
25.00%
20.00%
15.00%
10.00%
5.00%
0.00%