LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

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

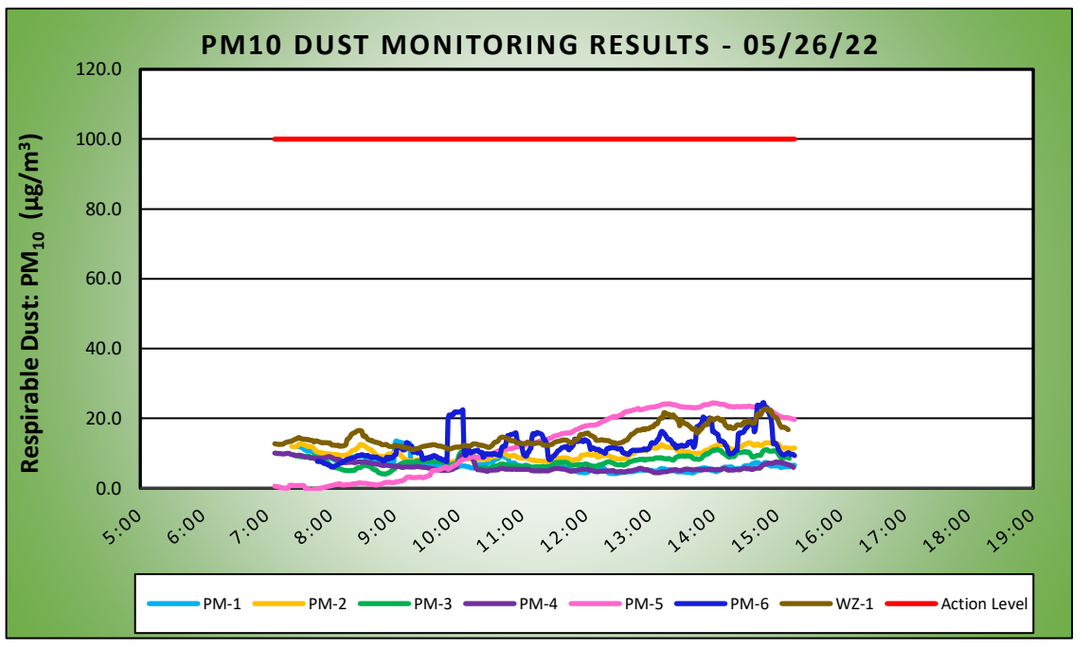
05/26/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By: Lauren Roper, Brian Kenneally	
Dust Action Level (µg/m^3)	100
VOC Action Level (ppm)	5
Hg Action Level (µg/m^3)	1.0

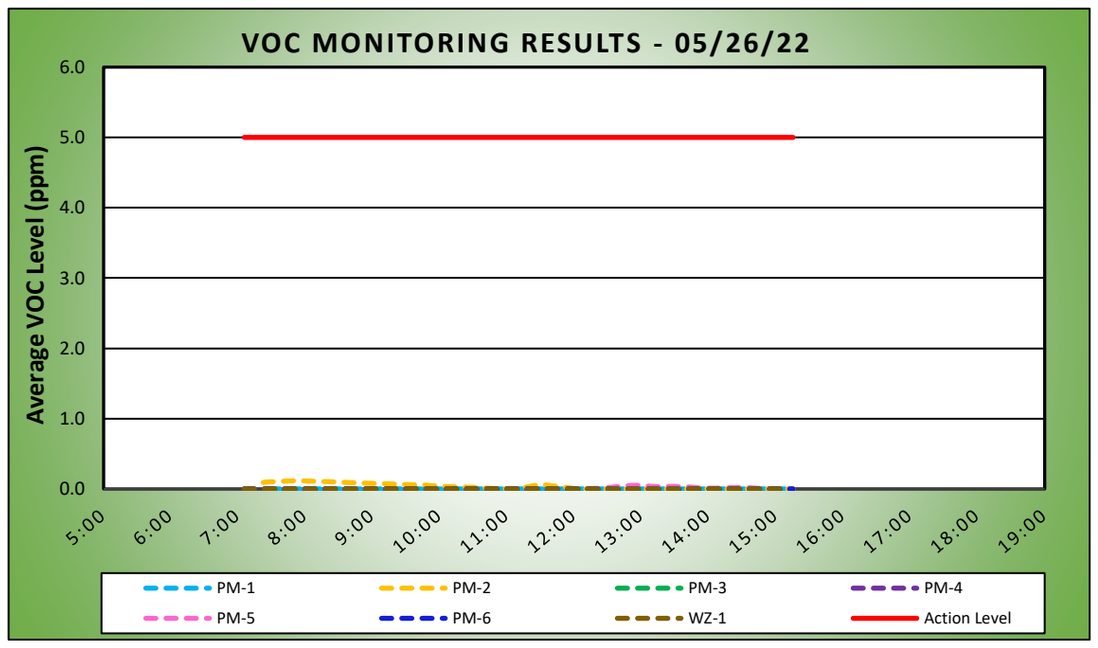
Weather Data Range for Work Day		Wind Direction	SSE	Relative Humidity (%)	47.6 - 69.5	Daily Rain (in)	0.00
Temp (°F)	57.7 - 69.2	Wind Speed (MPH)	0.7 - 6.9	Barometer (inHg)	30.29 - 30.41		

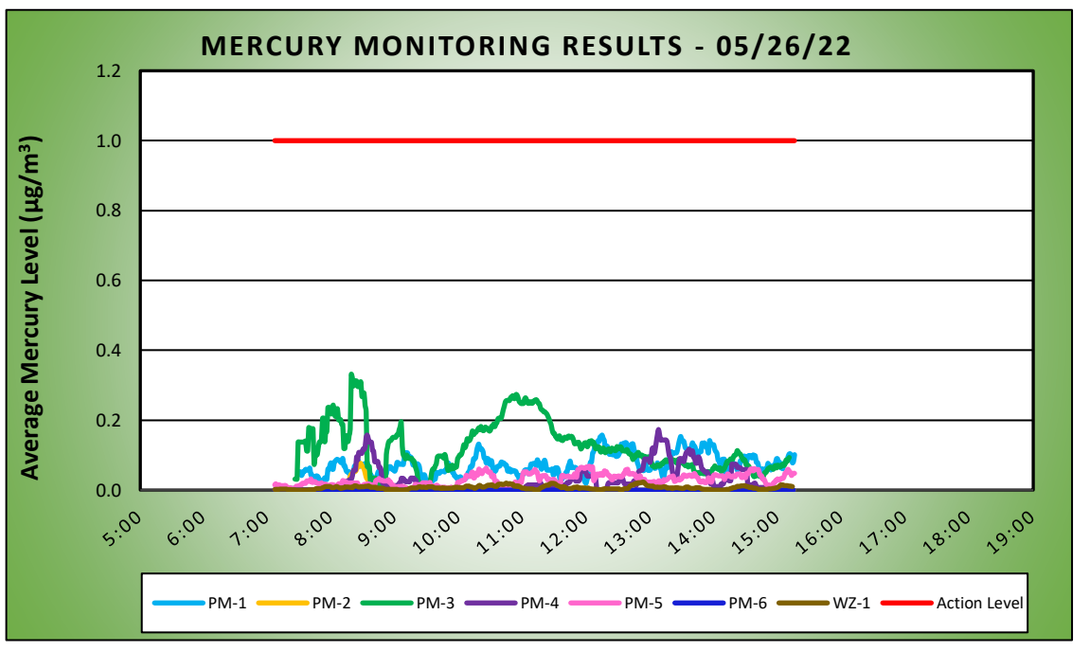
Readings in the summary table and graphs below are the reported downwind concentrations.

Station Location / Work Area	Daily Avg. Dust Concentration (µg/m^3)	Max 15 Minute Dust Concentration (µg/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	6.8	13.5	9:01	0.0	0.0	7:29
PM-2	10.0	13.1	14:33	0.0	0.1	7:52
PM-3	7.7	11.2	14:03	0.0	0.0	8:23
PM-4	6.3	10.1	7:07	0.0	0.0	7:06
PM-5	12.8	24.5	13:59	0.0	0.1	12:54
PM-6	12.1	24.5	14:47	0.0	0.0	7:06
WZ-1	14.8	22.8	N/A	0.0	0.0	N/A

Station Location / Work Area	Daily Avg. Mercury Concentration (µg/m^3)	Max 15 Minute Mercury Concentration (µg/m^3)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.1	0.2	12:15
PM-2	0.0	0.1	8:27
PM-3	0.1	0.3	8:19
PM-4	0.0	0.2	13:08
PM-5	0.0	0.1	12:03
PM-6	0.0	0.0	7:07
WZ-1	0.0	0.0	N/A







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/m^3 to 0.04 µg/m^3.
  - Instantaneous mercury vapor concentrations within the work zone ranged from 0.00 µg/m^3 to 0.09 µg/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 at perimeter CAMP station PM-5 was recalibrated between 7:45am and 7:52am due to negative concentrations of PM10 being recorded. PM10 concentrations at perimeter CAMP station PM-5 returned to background conditions after recalibration and data logging resumed at 7:53am.
  - Work was stopped while equipment maintenance occurred.
  - Fugitive dust was not observed migrating from the site during this time.
- The handheld Jerome® J505 mercury vapor analyzer was placed at perimeter CAMP station PM-4 from 7:03am to 8:02am during equipment troubleshooting and replacement of the Jerome® J405 unit. Instantaneous mercury vapor concentrations during this time ranged from 0.00 µg/m^3 to 0.03 µg/m^3.
- Perimeter air monitoring station PM-2 was relocated to the southern sidewalk of Water Street from 7:10am to 3:09pm.
- 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 at 3:09pm at the conclusion of ground-intrusive activities.
  - Mercury vapor concentrations at each CAMP station ranged at 0.00 µg/m^3.
  - VOC concentrations at each CAMP station were recorded at 0.0 ppm.

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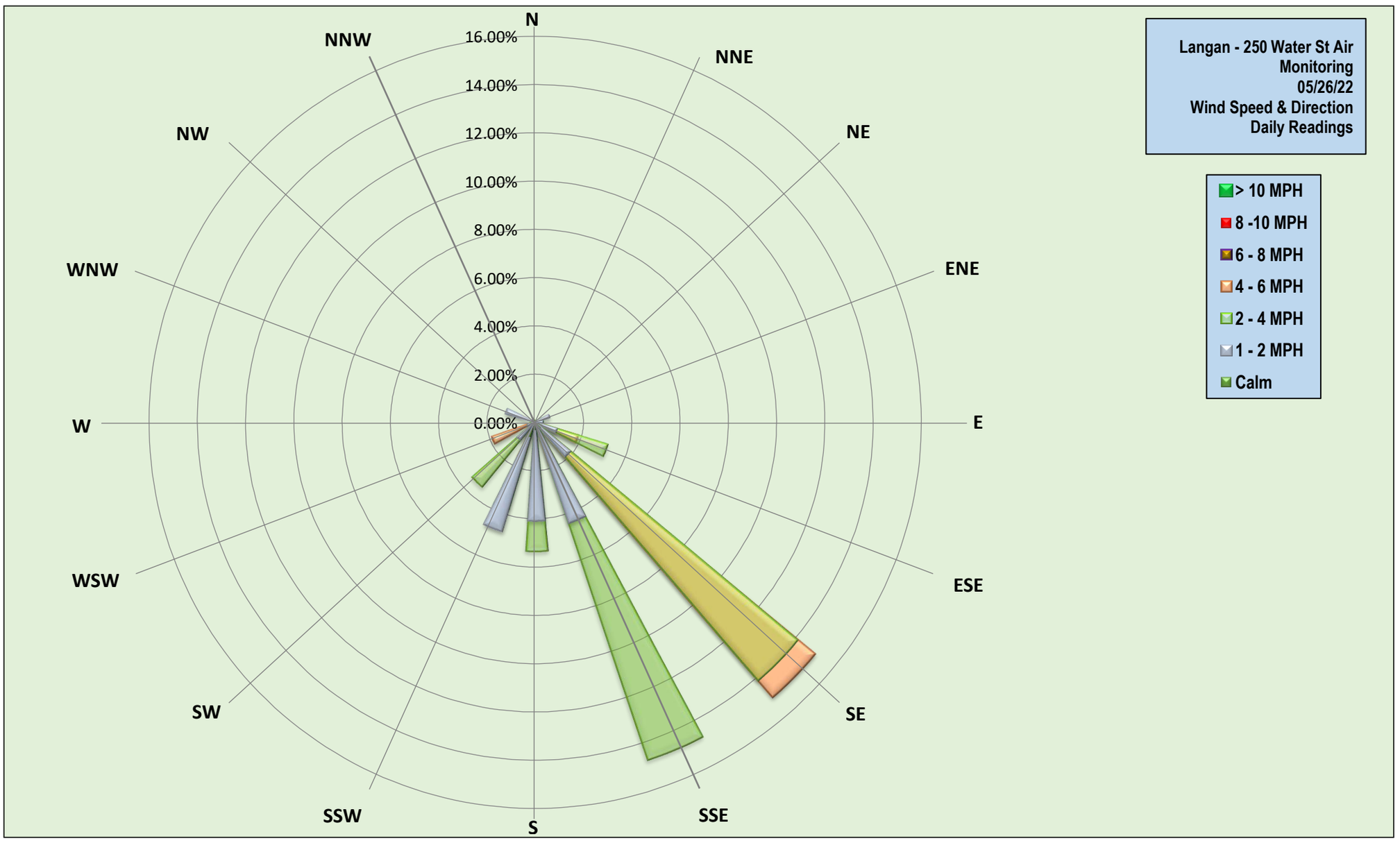
Langan - 250 Water St Air Monitoring
05/26/22
Wind Speed & Direction
Daily Readings
> 10 MPH
8 -10 MPH
6 - 8 MPH
4 - 6 MPH
2 - 4 MPH
1 - 2 MPH
Calm
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
16.00%
14.00%
12.00%
10.00%
8.00%
6.00%
4.00%
2.00%
0.00%