LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

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

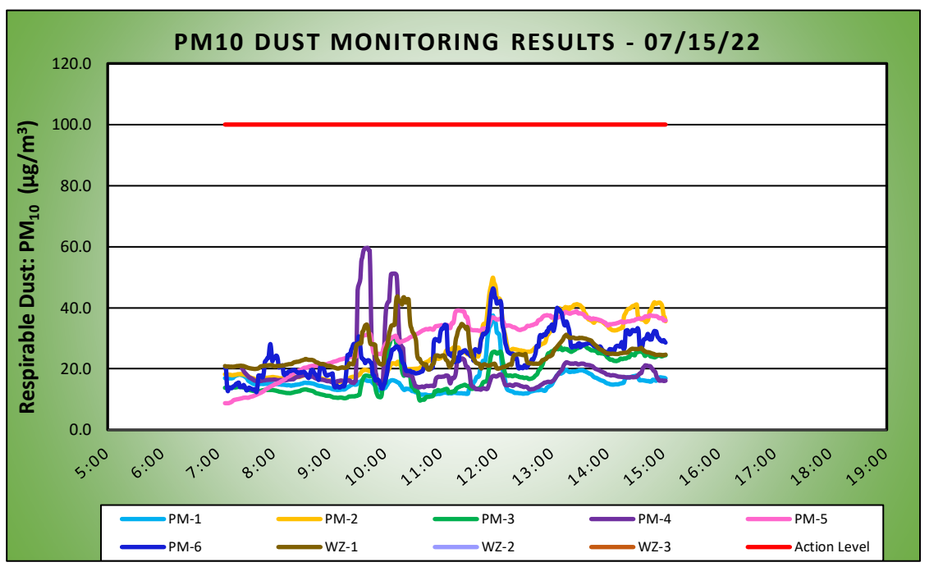
07/15/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By:	
Dust Action Level (µg/m^3)	100
VOC Action Level (ppm)	5
Hg Action Level (µg/m^3)	1.0

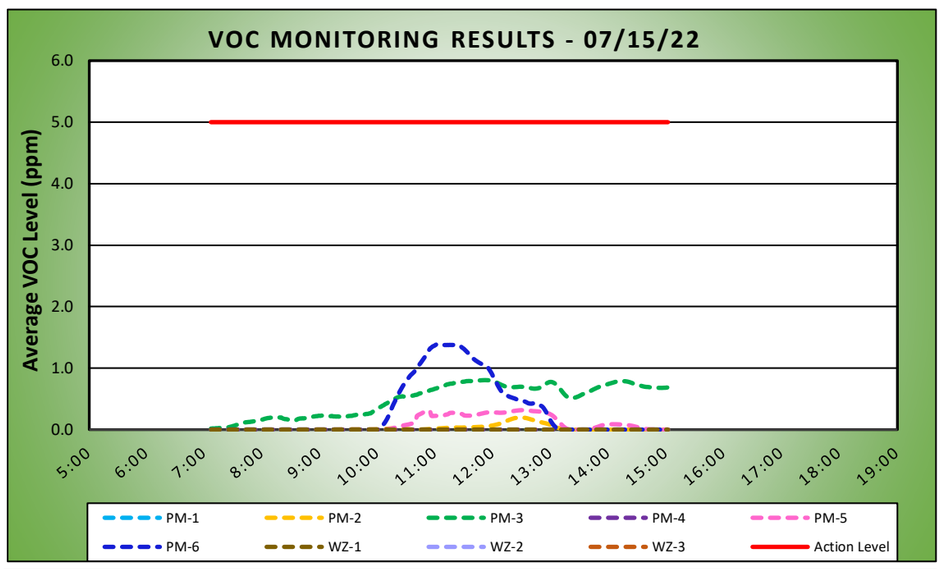
Weather Data Range for Work Day		Wind Direction	SSE	Relative Humidity (%)	30.2 - 52.6	Daily Rain (in)	0.00
Temp (°F)	75.2 - 85.6	Wind Speed (MPH)	1.2 - 6.4	Barometer (inHg)	30.18 - 30.23		

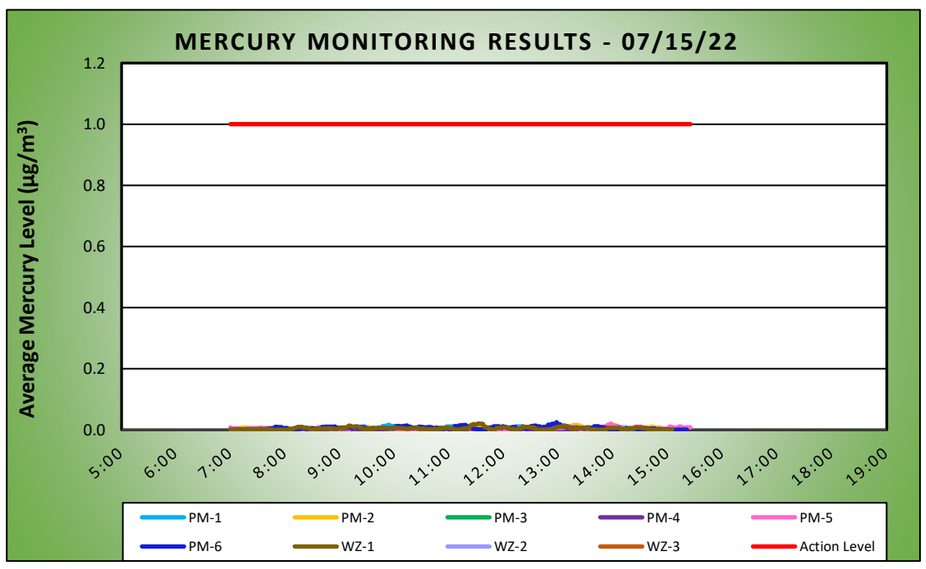
Readings in the summary table and graphs below are the reported downwind concentrations.

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	15.7	37.4	11:56	0.0	0.0	7:07
PM-2	26.1	49.8	11:56	0.0	0.2	12:29
PM-3	17.8	30.2	10:07	0.5	0.8	11:52
PM-4	19.5	59.6	9:41	0.0	0.0	7:26
PM-5	28.8	39.1	11:19	0.1	0.3	12:30
PM-6	24.6	46.3	11:56	0.3	1.4	11:03
WZ-1	24.9	43.7	10:13	0.0	0.0	7:07
WZ-2	N/A	N/A	N/A	N/A	N/A	N/A
WZ-3	N/A	N/A	N/A	N/A	N/A	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	0.0	0.0	9:54
PM-2	0.0	0.0	13:19
PM-3	0.0	0.0	9:40
PM-4	0.0	0.0	14:14
PM-5	0.0	0.0	13:58
PM-6	0.0	0.0	12:58
WZ-1	0.0	0.0	11:32
WZ-2	N/A	N/A	N/A
WZ-3	N/A	N/A	N/A







Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at seven total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10), during ground-intrusive activities. There were no fifteen-minute average concentrations for mercury vapor, VOCs, or PM10 that approached or exceeded the action level established by the community air monitoring plan (CAMP) (1.0 ug/L, 5.0 ppm, and 0.1 mg/m^3, respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID, respectively.

- Background concentrations of mercury vapor at each CAMP station were recorded at 0.00 µg/m^3.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 parts per million (ppm).

Ambient Air (Handheld Jerome® J505 and Handheld PID)

- The dedicated mobile monitor (Langan) used a handheld Jerome® J505 mercury vapor analyzer to monitor ambient air conditions at various heights throughout the site. Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 µg/m^3 to 0.13 µg/m^3.
- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were at or below background concentrations throughout the work day.

Off-Site CAMP Station Relocation

- CAMP station WZ-1 was relocated to the eastern sidewalk of Peck Slip from 6:52am to 3:02pm during removal of UST contents in the eastern part of the site.

Equipment Troubleshooting

- PM10 data were not recorded at CAMP station PM-2 between 10:21am and 10:22am during replacement of the particulate monitoring unit. Data logging resumed at 10:23am, after the new unit was connected. No ground-intrusive activities were ongoing and fugitive dust was not observed migrating off-site during this time.

Prior to CAMP Shutdown

Prior to discontinuing the CAMP, air quality at each CAMP station was verified using the handheld PID and handheld Jerome® J505 mercury vapor analyzer and there were either no readings or no readings above background concentrations recorded. Additionally, areas of exposed soil were covered with polyethylene sheeting and/or Atmos® AC-645 dust/vapor suppressing foam. CAMP stations were discontinued at 3:02pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.05 µg/m^3.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.

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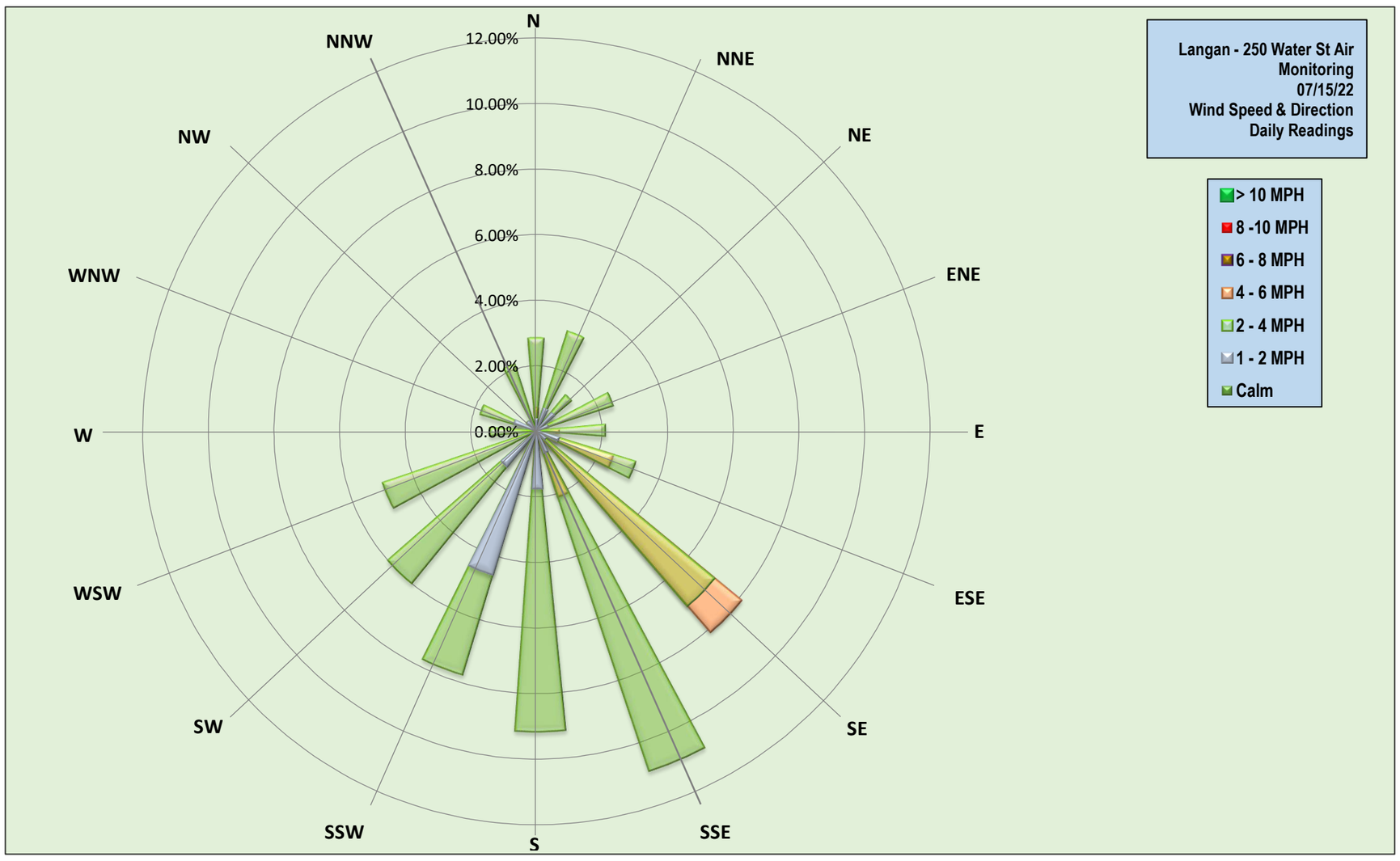
environmental, health & safety experts


Langan - 250 Water St Air Monitoring
07/15/22
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
12.00%
10.00%
8.00%
6.00%
4.00%
2.00%
0.00%