LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

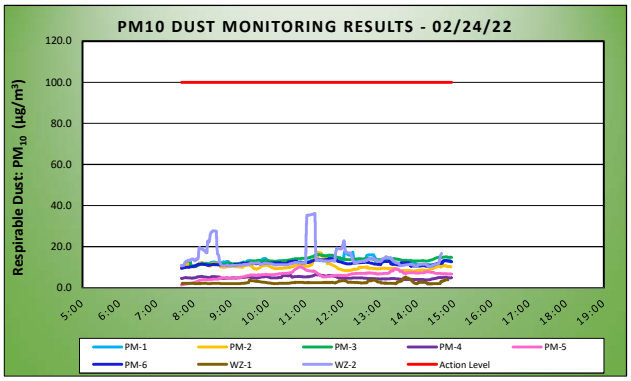
DAILY AIR MONITORING REPORT
250 Water Street Remediation Site
Manhattan, New York

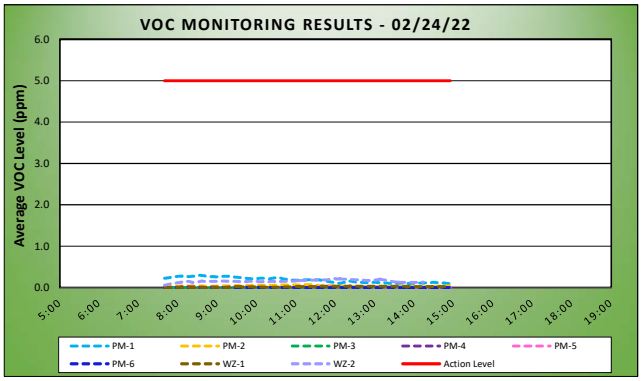
02/24/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By:	
Dust Action Level (µg/m^3)	100
VOC Action Level (ppm)	5
Hg Action Level (µg/m^3)	1.0

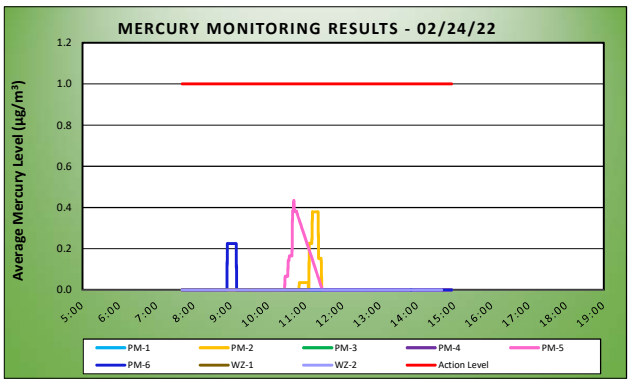
Weather Data Range for Work Day		Wind Direction	S	Relative Humidity (%)	30.4 - 51.9	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	31.1 - 33.4	Wind Speed (MPH)	1.0 - 10.2	Barometer (inHg)	30.47 - 30.53			

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	12.6	17.7	12:03	0.2	0.3	8:31
PM-2	10.2	17.2	11:20	0.0	0.1	11:20
PM-3	13.5	16.2	11:17	0.0	0.0	7:47
PM-4	4.9	6.4	11:15	0.0	0.0	8:22
PM-5	6.2	10.2	10:52	0.0	0.0	11:58
PM-6	11.8	14.2	11:39	0.0	0.0	9:05
WZ-1	2.6	5.2	13:41	0.0	0.0	12:24
WZ-2	14.2	36.1	11:15	0.1	0.2	11:59

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	7:41
PM-2	0.0	0.4	11:11
PM-3	0.0	0.0	7:48
PM-4	0.0	0.0	7:41
PM-5	0.0	0.4	10:41
PM-6	0.0	0.2	8:54
WZ-1	0.0	0.0	7:41
WZ-2	0.0	0.0	7:41



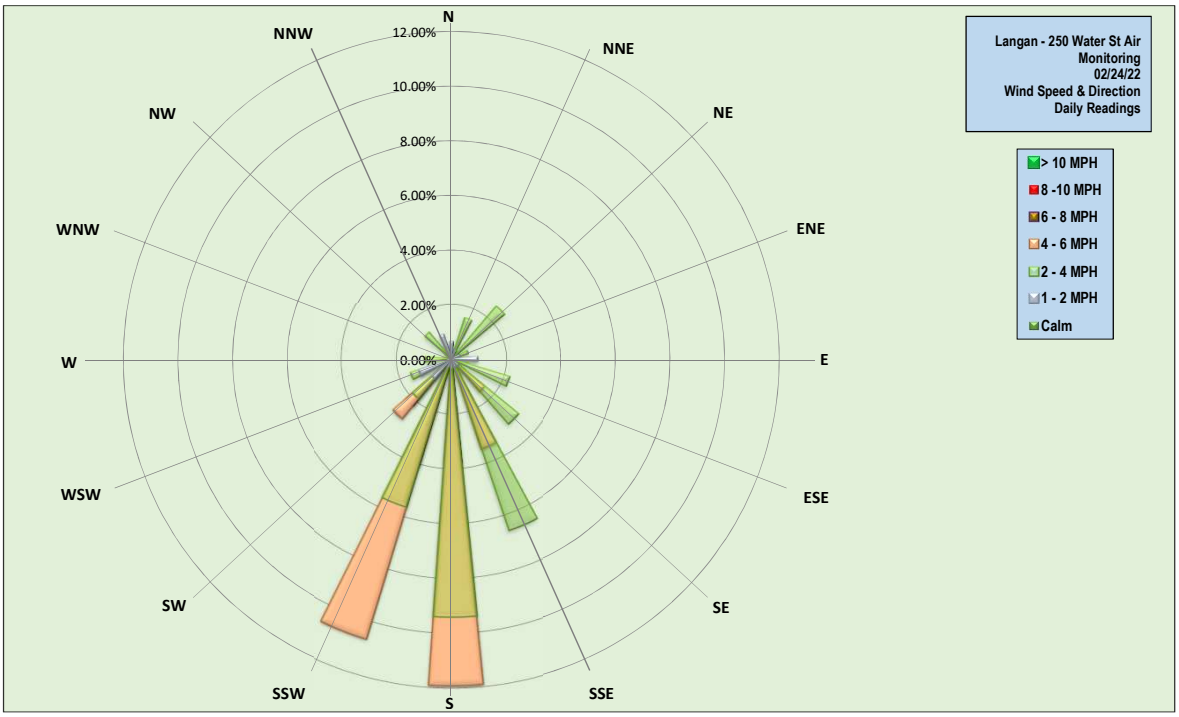




Air Monitoring Notes:

- Instantaneous mercury vapor readings were detected at concentrations ranging from 0.0 µg/m^3 to 3.4 µg/m3 at perimeter station PM-2, from 0.0 µg/m^3 to 3.2 µg/m^3 at perimeter station PM-5 and from 0.0 µg/m^3 to 3.4 µg/m^3 at perimeter station PM-6. The elevated readings were determined to be erroneous high readings and not a result of ground-intrusive activities associated with drilling activities.
  - o The 15-minute-average mercury vapor concentrations did not exceed the action level established in the CAMP.
  - o Instantaneous mercury vapor readings within the work zones during this time were collected using the handheld Jerome® J505 mercury analyzer and readings ranged from 0.00 µg/m^3 to 0.08 µg/m^3 throughout these time periods.
- The Jerome® J405 unit at perimeter station PM-5 was not operational between 10:46am to 11:11am due to an equipment malfunction resulting in depletion of the battery. The Jerome® J405 unit from work zone station WZ-1 was used in perimeter station PM-5 and a handheld Jerome® J505 unit was used within the work zone for the remainder of the operation. NYSDEC and the New York State Department of Health (NYSDOH) were notified of the equipment change and no exception was taken.
- Langan used a Jerome® J505 mercury analyzer to monitor ambient air conditions in two work zones and throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00 µg/m^3 to 0.24 µg/m^3.
- Perimeter air monitoring station PM-3 was relocated to the southern sidewalk of Water Street from 7:25am to 8:13am during advancement of soil borings WC06B and WC06D.
- Perimeter air monitoring station PM-1 was relocated to the western sidewalk of Beekman Street from 12:28pm to 1:33pm during advancement of soil boring WC03A.
- Perimeter air monitoring station PM-6 was relocated to the southern sidewalk of Water Street from 12:57pm to 1:50pm during advancement of soil boring WC03B.
- 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.

EMILCOTT
environmental, health & safety experts


Langan - 250 Water St Air Monitoring
02/24/22
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%