LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

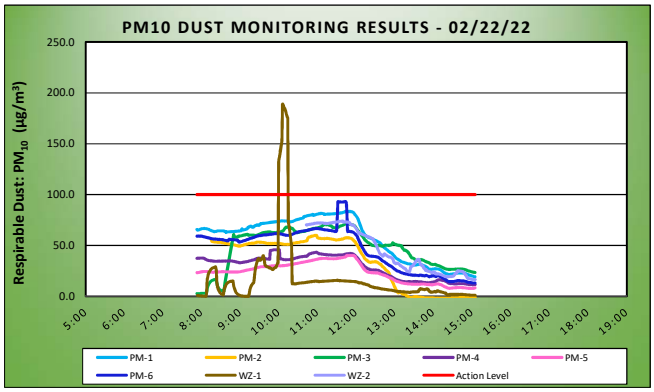
DAILY AIR MONITORING REPORT
250 Water Street Remediation Site
Manhattan, New York

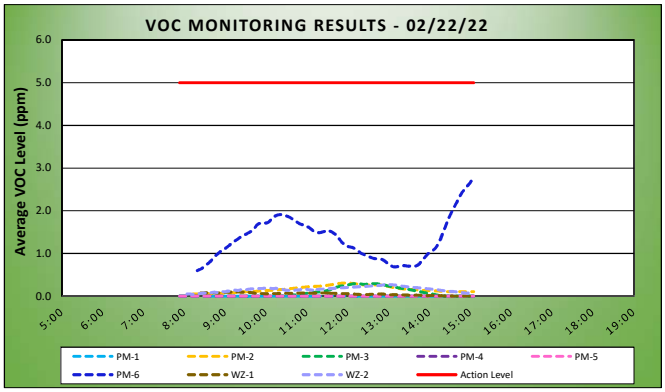
02/22/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By:	
Dust Action Level (µg/m^3)	100
VOC Action Level (ppm)	5
Hg Action Level (µg/m^3)	1.0

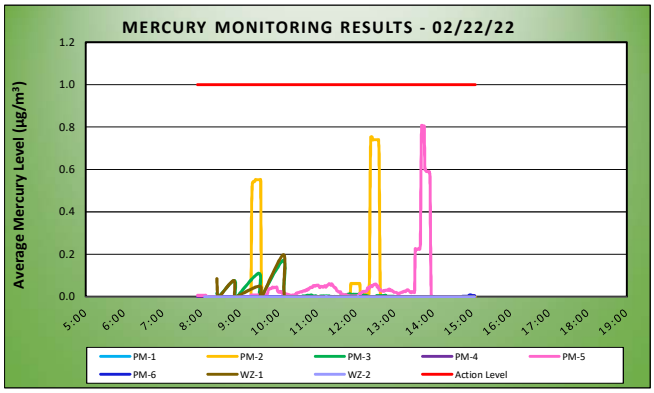
Weather Data Range for Work Day		Wind Direction	S	Relative Humidity (%)	79.2 - 92.4	Daily Rain (in)	0.01	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	39.5 - 53.0	Wind Speed (MPH)	1.0 - 8.5	Barometer (inHg)	30.30 - 30.39			

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	55.8	83.6	11:45	0.0	0.0	7:53
PM-2	33.9	59.9	10:57	0.2	0.3	11:57
PM-3	46.3	71.8	11:47	0.1	0.3	12:37
PM-4	29.3	45.9	9:56	0.0	0.0	7:53
PM-5	23.6	40.2	11:53	0.0	0.0	13:53
PM-6	46.1	93.2	11:44	1.4	2.8	15:05
WZ-1	16.3	** 188.9	N/A	0.0	0.1	9:16
WZ-2	43.6	74.0	11:39	0.1	0.3	12:57

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	7:54
PM-2	0.0	* 0.8	N/A
PM-3	0.1	0.2	10:07
PM-4	0.0	0.0	7:54
PM-5	0.0	* 0.8	N/A
PM-6	0.1	0.0	14:56
WZ-1	0.1	0.2	10:07
WZ-2	0.0	0.0	8:05







Air Monitoring Notes:

- * Instantaneous mercury vapor readings were detected at concentrations ranging from 1.2 µg/mg3 to 6.5 µg/mg3 at perimeter station PM-2 and at concentrations ranging from 0.4 µg/mg3 to 5.4 µg/mg3 at perimeter station PM-5. The elevated readings were determined to be erroneous high readings resulting from inclement weather conditions (ie. fog, rain, and humidity) 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 concentrations within the two work zones during this time were collected using the handheld Jerome® J505 mercury analyzer and readings ranged from 0.00 µg/mg3 to 0.09 µg/mg3 throughout these time periods.
- ** Particulate matter less than 10 microns in diameter (PM10) exceeded the action level at work zone station WZ-1 from 10:00am to 10:14am due to exhaust from the drill rig in close proximity to the air monitoring station. Work zone station WZ-1 was relocated further downwind of the work area and readings returned to background conditions.
- 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/m3 to 0.36 µg/m3.
- Perimeter air monitoring station PM-1 was relocated to the eastern sidewalk of Peck Slip from 9:34am to 11:10am during advancement of soil boring WC07D and from 12:15pm to 3:00pm during advancement of soil boring WC08D.
- Perimeter air monitoring station PM-5 was relocated to the southern sidewalk of Water Street from 2:00pm to 3:00pm during advancement of soil boring WC09B.
- Prior to discontinuing the CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background

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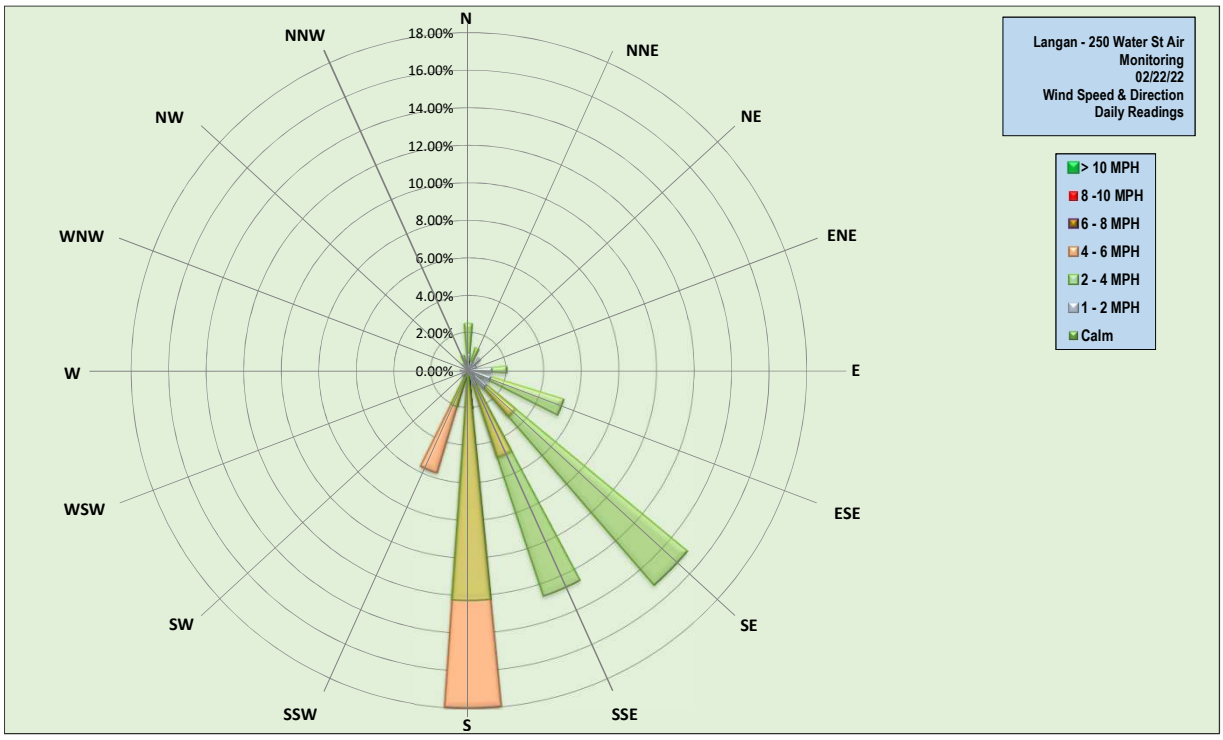
environmental, health & safety experts


Langan - 250 Water St Air Monitoring
02/22/22
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
18.00%
16.00%
14.00%
12.00%
10.00%
8.00%
6.00%
4.00%
2.00%
0.00%