



# DAILY AIR MONITORING REPORT

## 250 Water Street Remediation Site

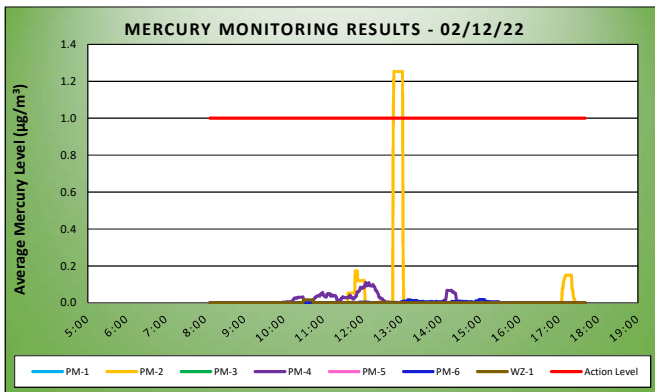
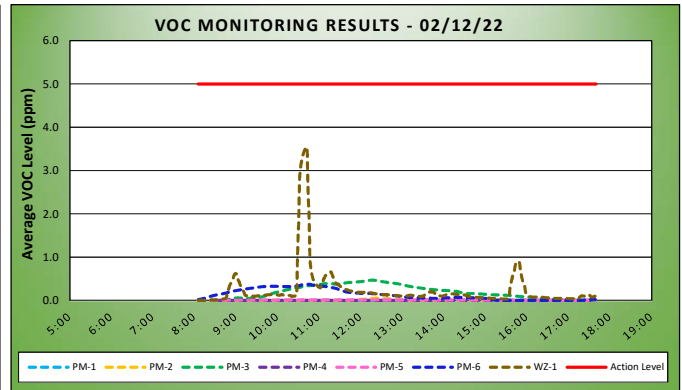
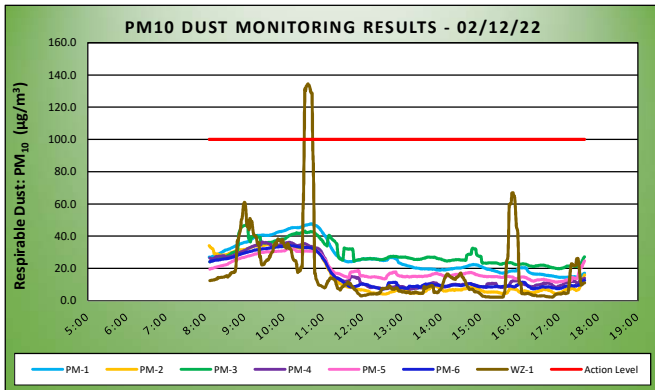
### Manhattan, New York

02/12/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By: Michael Au	
Dust Background & Action Level ( $\mu\text{g}/\text{m}^3$ )	100
VOC Background & Action Level (ppm)	5
Hg Background & Action Level ( $\mu\text{g}/\text{m}^3$ )	1.0

Weather Data Range for Work Day		Wind Direction	SSW	Relative Humidity (%)	30.4 - 48.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	53.4 - 59.3	Wind Speed (MPH)	1.1 - 6.0	Barometer (inHg)	29.95 - 30.01			

Station Location Area	Work	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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		26.5	47.6	10:42 AM	0.0	0.0	8:06 AM
PM-2		15.0	34.9	9:34 AM	0.0	0.1	12:24 PM
PM-3		28.9	48.0	9:04 AM	0.2	0.5	12:18 PM
PM-4		17.2	36.4	9:27 AM	0.0	0.0	9:24 AM
PM-5		19.3	32.2	10:09 AM	0.0	0.0	12:21 PM
PM-6		16.1	34.1	10:10 AM	0.1	0.4	10:45 AM
WZ-1		17.3	134.4	10:37 AM	0.2	3.5	10:42 AM

Station Location Area	Work	Daily Avg. Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Max 15 Minute Avg Mercury Reading
PM-1		0.0	0.0	8:32 AM
PM-2		0.0	* 1.3	12:48 PM
PM-3		0.0	0.0	8:07 AM
PM-4		0.0	0.1	12:05 PM
PM-5		0.0	0.0	8:07 AM
PM-6		0.0	0.0	2:58 PM
WZ-1		0.0	0.0	10:30 AM



**Air Monitoring Notes:**

\*Mercury vapor concentrations exceeded the action level established in the CAMP from 12:48pm to 1:01pm at perimeter station PM-2, which was located along Pearl Street, next to the parking lot entrance. **The exceedance was determined to be an erroneous high reading resulting from an equipment malfunction or unknown interference and mercury vapor data from the Jerome® J505 mercury analyzer indicate the erroneously high reading is not a result of ground-intrusive activities.** During this time, AARCO was in the process of backfilling test pit TP-02 after the test pit was open for one hour. Perimeter station PM-2 was located about 120 feet and in an upwind direction from the TP-02 work zone.

- Instantaneous mercury vapor concentrations within the work zone during this time were collected using the Jerome® J505 mercury analyzer and readings ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.05  $\mu\text{g}/\text{m}^3$ .
- The work zone station (WZ-1) was located between TP-02 and PM-2 and Jerome® J405 15-minute average mercury concentrations remained at 0.0  $\mu\text{g}/\text{m}^3$  throughout this time period.
- Two instantaneous readings of 14.30  $\mu\text{g}/\text{m}^3$  and 4.50  $\mu\text{g}/\text{m}^3$  were recorded at PM-2 before returning to the daily average of 0.0  $\mu\text{g}/\text{m}^3$ . The instantaneous readings were immediately checked at the perimeter station using the - Jerome® J505 mercury analyzer and a maximum concentration of 0.01  $\mu\text{g}/\text{m}^3$  was recorded.
- Additionally, the independent community monitoring conducted continuous monitoring with a Jerome® J405 throughout the day and reported that mercury vapor was not detected, with all readings measured at 0.0  $\mu\text{g}/\text{m}^3$ .



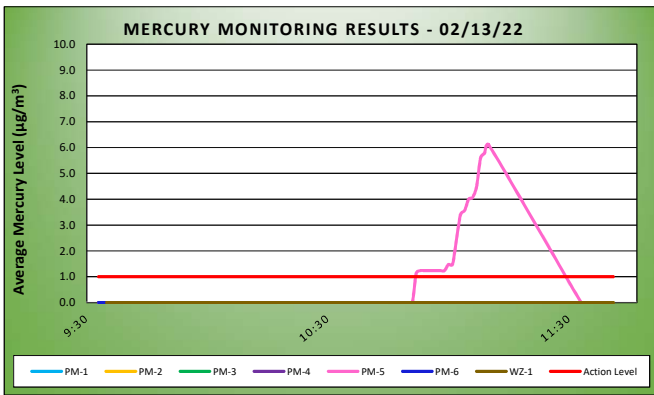
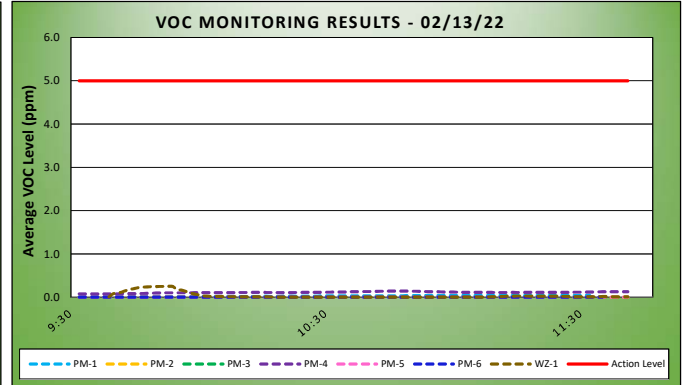
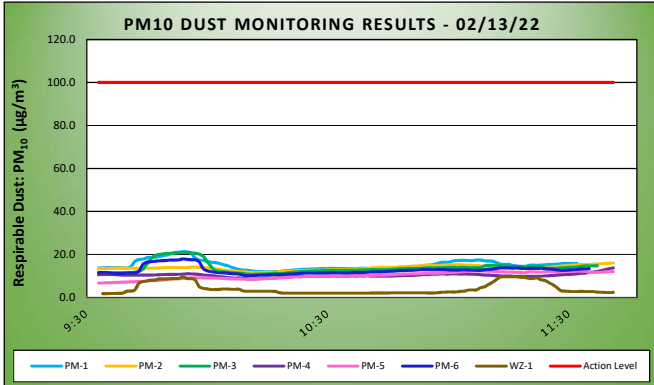


	<b>DAILY AIR MONITORING REPORT</b>				02/13/22	
	<b>250 Water Street Remediation Site</b>				Project number: 170381202	
	<b>Manhattan, New York</b>				Page 1 of 2	
					Submitted By: Farielle Brazier	
					Rev. No. 0	
					Dust Background & Action Level ( $\mu\text{g}/\text{m}^3$ )	
				100		
				VOC Background & Action Level (ppm)		
				5		
				Hg Background & Action Level ( $\mu\text{g}/\text{m}^3$ )		
				1.0		

Weather Data Range for Work Day		Wind Direction	NE	Relative Humidity (%)	86.8 - 88.8	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	31.4 - 32.1	Wind Speed (MPH)	6.6 - 7.5	Barometer (inHg)	30.23 - 30.26			

Station Location Area	Work	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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		15.1	21.3	9:54 AM	0.0	0.0	11:32 AM
PM-2		13.8	16.0	11:41 AM	0.0	0.0	10:41 AM
PM-3		13.7	20.9	9:55 AM	0.0	0.0	9:32 AM
PM-4		10.5	13.8	11:41 AM	0.1	0.1	10:47 AM
PM-5		10.0	12.3	11:07 AM	0.0	0.0	11:39 AM
PM-6		12.7	17.9	9:54 AM	0.0	0.0	9:32 AM
WZ-1		3.8	9.7	11:15 AM	0.0	0.3	9:53 AM

Station Location Area	Work	Daily Avg. Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Max 15 Minute Avg Mercury Reading
PM-1		0.0	0.0	9:33 AM
PM-2		0.0	0.0	9:33 AM
PM-3		0.0	0.0	9:33 AM
PM-4		0.0	0.0	9:33 AM
PM-5		* 0.8	* 6.1	11:10 AM
PM-6		0.0	0.0	9:33 AM
WZ-1		0.0	0.0	9:35 AM



**Air Monitoring Notes:**

\* Mercury vapor concentrations exceeded the action level established in the CAMP from 10:52am to 11:10am at perimeter station PM-5, located along Water Street, closer to Peck Slip. **The exceedances were determined to be erroneous high readings resulting from an equipment malfunction and not a result of ground-intrusive activities associated with test pitting operations.** During this time, AARCO was in the process of backfilling test pit TP-04 after the test pit was open for one hour. Perimeter station PM-5 was located about 200 feet and in an upwind direction from the TP-04 work zone.

- Instantaneous mercury vapor concentrations within the work zone during this time were collected using the Jerome® J505 mercury analyzer and readings ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.06  $\mu\text{g}/\text{m}^3$ .
- The work zone station (WZ-1) and nearby perimeter stations PM-3 and PM-6 remained at 0.0  $\mu\text{g}/\text{m}^3$  throughout this time period.
- Instantaneous readings on the PM-5 Jerome® J405 unit during this time period ranged from 0.0  $\mu\text{g}/\text{m}^3$  to 23.8  $\mu\text{g}/\text{m}^3$ . After notification of the elevated readings, the CAMP monitor collected Jerome® J505 readings in between the work zone and station PM-5, and a maximum concentration of 0.00  $\mu\text{g}/\text{m}^3$  was recorded. The CAMP monitor collected Jerome® J505 readings at the station intake, and the Jerome® J505 unit read 0.00  $\mu\text{g}/\text{m}^3$  at the same time the PM-5 station Jerome® J405 unit recorded a reading of 14.81  $\mu\text{g}/\text{m}^3$ .
- To diagnose the equipment malfunction, the CAMP monitor ran a warm-up function on the Jerome® J405 unit. After running the 5-minute warmup, elevated readings were still observed. The CAMP monitor disconnected the Jerome® J405 from the CAMP unit tubing, and walked towards the work area collecting readings, and the Jerome® J405 unit readings returned to 0.0  $\mu\text{g}/\text{m}^3$  after being disconnected from the CAMP station. The Jerome® J405 unit was reconnected to the CAMP station, and continued to read 0.0  $\mu\text{g}/\text{m}^3$  for the remainder of the operation.







# DAILY AIR MONITORING REPORT

## 250 Water Street Remediation Site

### Manhattan, New York

02/21/22

Project number: 170381202

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Submitted By:

Rev. No. 0

Dust Action Level ( $\mu\text{g}/\text{m}^3$ )

100

VOC Action Level (ppm)

5

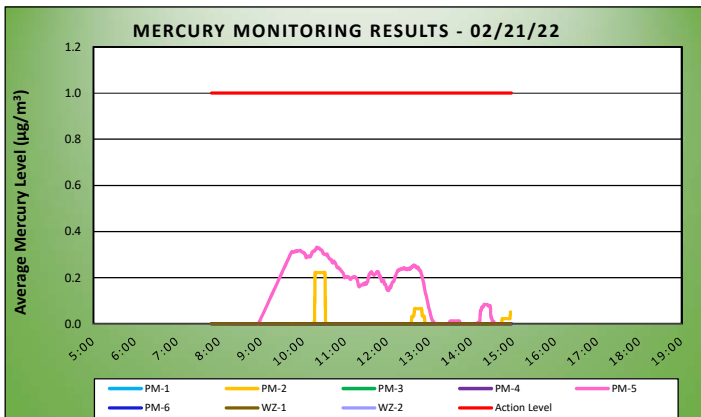
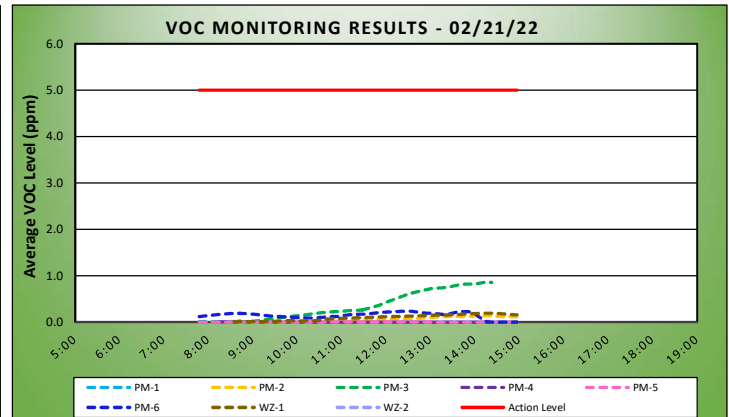
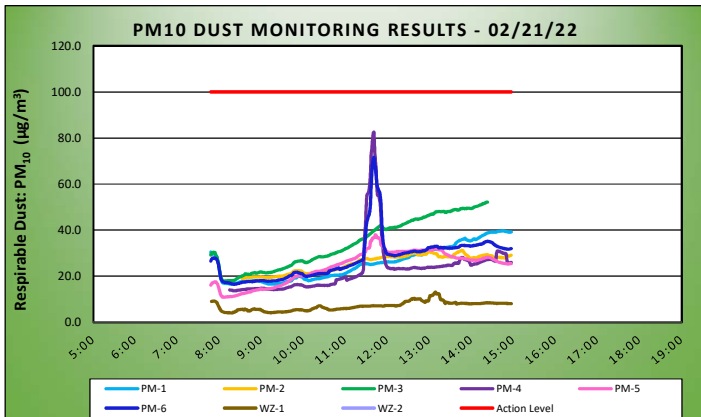
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )

1.0

Weather Data Range for Work Day		Wind Direction	WSW	Relative Humidity (%)	31.3 - 67.8	Daily Rain (in)	0.01	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	33.0 - 54.1	Wind Speed (MPH)	0.6 - 6.3	Barometer (inHg)	30.32 - 30.40			

Station Location Work Area	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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	26.3	39.7	14:45	0.0	0.0	8:19
PM-2	25.5	31.2	13:46	0.1	0.1	14:21
PM-3	34.4	52.2	14:23	0.3	0.9	14:18
PM-4	23.0	82.5	11:41	0.0	0.0	8:15
PM-5	24.0	38.0	11:43	0.0	0.0	10:51
PM-6	27.5	71.5	11:41	0.1	0.2	12:28
WZ-1	7.0	13.0	13:09	0.1	0.2	14:19
WZ-2	N/A	0.0	N/A	N/A	0.0	N/A

Station Location Work Area	Daily Avg. Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	7:49
PM-2	0.0	0.2	10:17
PM-3	0.0	0.0	7:49
PM-4	0.0	0.0	8:16
PM-5	0.1	0.3	10:20
PM-6	0.0	0.0	7:49
WZ-1	0.0	0.0	7:49
WZ-2	N/A	0.0	N/A



**Air Monitoring Notes:** Perimeter air monitoring station PM-3 was relocated to the northern sidewalk of Pearl Street from 11:30am to 2:23pm during advancement of soil boring WC07A and WC07B.

**Sampling Notes:**

**Weather Notes:**





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

02/22/22

Project number: 170381202

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Submitted By:

Rev. No. 0

Dust Action Level ( $\mu\text{g}/\text{m}^3$ )

100

VOC Action Level (ppm)

5

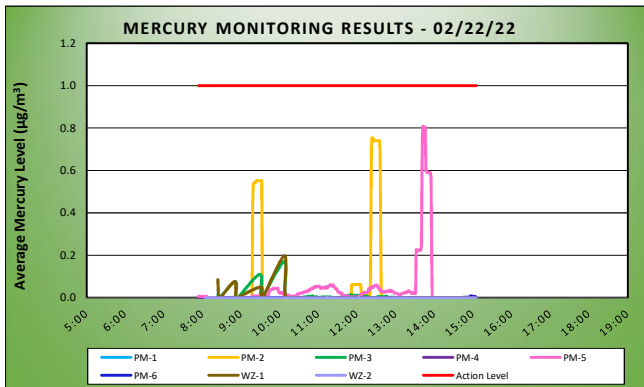
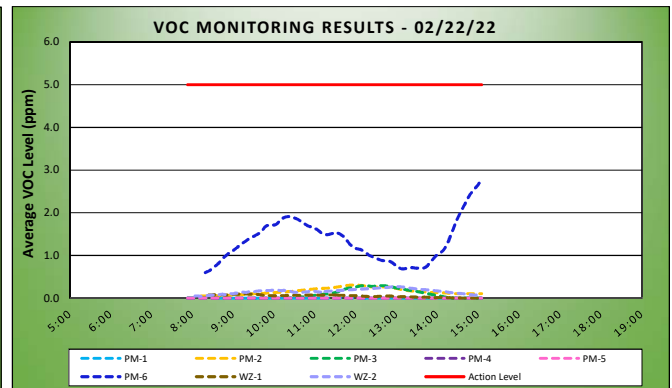
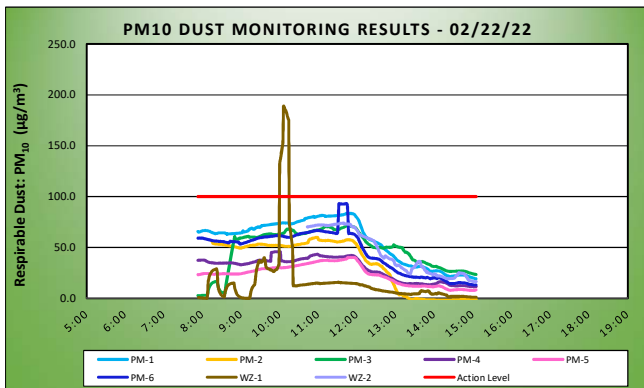
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )

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 ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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 ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	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  $\mu\text{g}/\text{m}^3$  to 6.5  $\mu\text{g}/\text{m}^3$  at perimeter station PM-2 and at concentrations ranging from 0.4  $\mu\text{g}/\text{m}^3$  to 5.4  $\mu\text{g}/\text{m}^3$  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  $\mu\text{g}/\text{m}^3$  to 0.09  $\mu\text{g}/\text{m}^3$  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  $\mu\text{g}/\text{m}^3$  to 0.36  $\mu\text{g}/\text{m}^3$ .
- 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



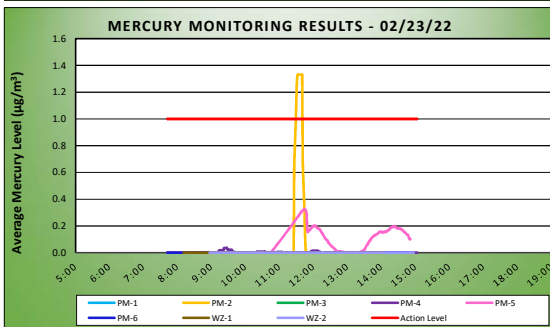
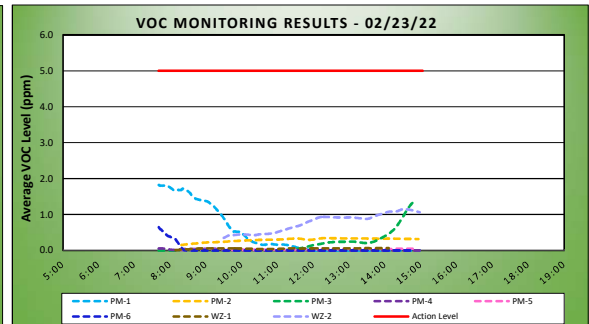
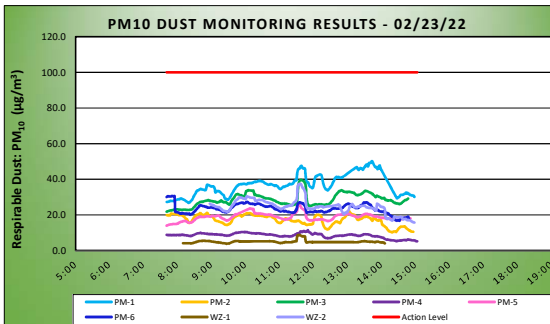


	<b>DAILY AIR MONITORING REPORT</b> <b>250 Water Street Remediation Site</b> <b>Manhattan, New York</b>		02/23/22			
			Project number: 170381202			Rev. No. 0
			Page 1 of 2			
			Submitted By:			
			Dust Action Level ( $\mu\text{g}/\text{m}^3$ )			100
VOC Action Level (ppm)			5			
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )			1.0			

Weather Data Range for Work Day		Wind Direction	NNE	Relative Humidity (%)	33.7 - 84.0	Daily Rain (in)	0.05	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	58.4 - 68.0	Wind Speed (MPH)	0.5 - 7.0	Barometer (inHg)	29.95 - 30.00			

Station Location Work Area	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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	36.6	50.2	13:43	0.5	1.8	7:41
PM-2	17.1	22.4	13:02	0.3	0.3	12:21
PM-3	28.5	39.7	11:38	0.2	1.3	14:47
PM-4	8.5	11.4	11:50	0.0	0.1	7:42
PM-5	18.7	25.8	11:35	0.0	0.0	14:29
PM-6	23.3	30.6	7:50	0.0	0.6	7:41
WZ-1	5.0	8.7	11:34	0.1	0.1	13:29
WZ-2	24.5	37.4	11:36	0.8	1.1	14:34

Station Location Work Area	Daily Avg. Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	7:42
PM-2	0.0	* 1.3	11:32
PM-3	0.0	0.0	7:42
PM-4	0.0	0.0	9:27
PM-5	0.1	0.3	11:44
PM-6	0.0	0.0	7:42
WZ-1	0.0	0.0	8:11
WZ-2	0.0	0.0	8:57



**Air Monitoring Notes:**

- Mercury vapor concentrations exceeded the action level established in the CAMP from 11:29am to 11:40am at perimeter station PM-2, located along Beekman 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 drilling activities.
  - 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  $\mu\text{g}/\text{m}^3$  to 0.07  $\mu\text{g}/\text{m}^3$  throughout these time periods.
  - The work zone stations (WZ-1 and WZ-2) remained at 0.00  $\mu\text{g}/\text{m}^3$  throughout this time period.
  - Instantaneous readings on the PM-2 Jerome® J405 unit ranged from 0.5  $\mu\text{g}/\text{m}^3$  to 9.3  $\mu\text{g}/\text{m}^3$ . After notification of the elevated readings, work was temporarily halted to investigate the exceedances. The CAMP monitor collected Jerome® J505 readings at the station intake for about 15 minutes and the Jerome® J405 continued to read 0.0  $\mu\text{g}/\text{m}^3$  for the remainder of the operation.
- 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 0.01  $\mu\text{g}/\text{m}^3$  to 0.20  $\mu\text{g}/\text{m}^3$ .
- Perimeter air monitoring station PM-3 was relocated to the eastern sidewalk of Peck Slip from 8:15am to 8:37am during advancement of soil boring WC10D.
- Perimeter air monitoring station PM-5 was relocated to the northern sidewalk of Pearl Street from 9:48am to 10:47am during advancement of soil boring WC05C.
- Perimeter air monitoring station PM-1 was relocated to the northern sidewalk of Pearl Street from 12:42pm to 2:02pm during advancement of soil boring WC04A.
- 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.



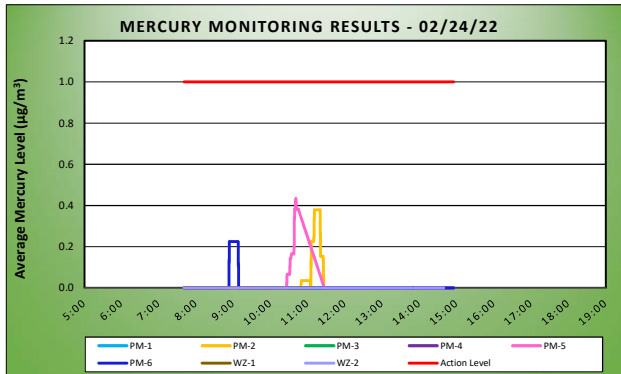
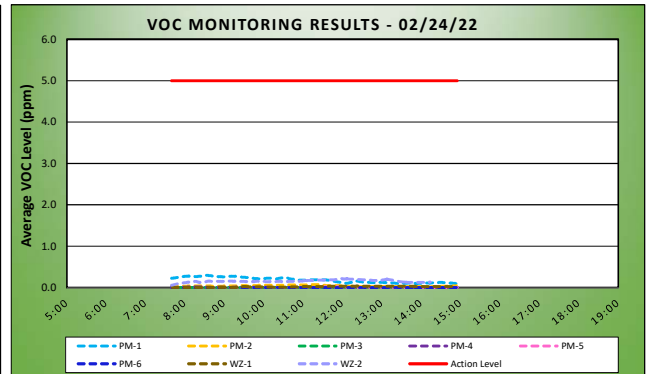
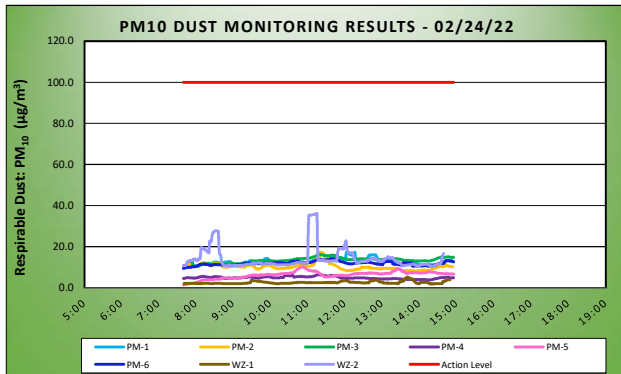
**DAILY AIR MONITORING REPORT**  
**250 Water Street Remediation Site**  
**Manhattan, New York**

02/24/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By:	
Dust Action Level ( $\mu\text{g}/\text{m}^3$ )	100
VOC Action Level (ppm)	5
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )	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 Area	Work	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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 Area	Work	Daily Avg. Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	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  $\mu\text{g}/\text{m}^3$  to 3.4  $\mu\text{g}/\text{m}^3$  at perimeter station PM-2, from 0.0  $\mu\text{g}/\text{m}^3$  to 3.2  $\mu\text{g}/\text{m}^3$  at perimeter station PM-5 and from 0.0  $\mu\text{g}/\text{m}^3$  to 3.4  $\mu\text{g}/\text{m}^3$  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.
  - The 15-minute-average mercury vapor concentrations did not exceed the action level established in the CAMP.
  - 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  $\mu\text{g}/\text{m}^3$  to 0.08  $\mu\text{g}/\text{m}^3$  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  $\mu\text{g}/\text{m}^3$  to 0.24  $\mu\text{g}/\text{m}^3$ .
- 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.





# DAILY AIR MONITORING REPORT

## 250 Water Street Remediation Site

### Manhattan, New York

02/25/22

Project number: 170381202

Page 1 of 2

Submitted By:

Rev. No. 0

Dust Action Level ( $\mu\text{g}/\text{m}^3$ )

100

VOC Action Level (ppm)

5

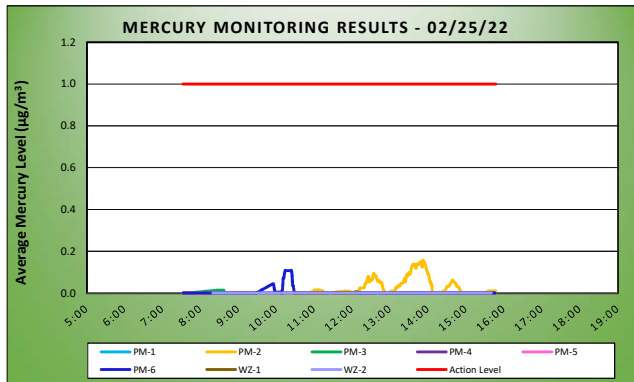
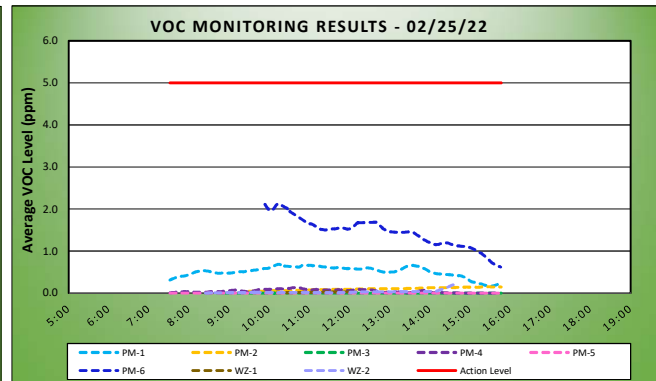
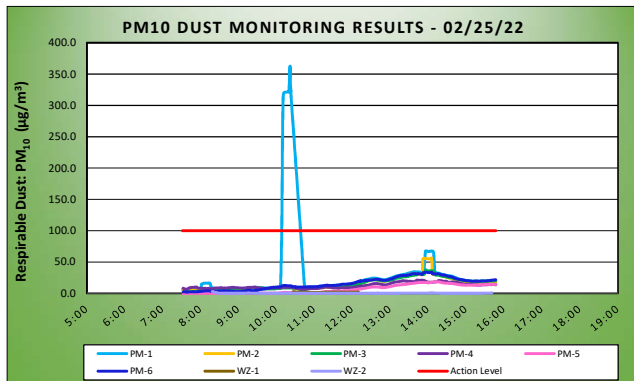
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )

1.0

Weather Data Range for Work Day		Wind Direction	NE	Relative Humidity (%)	63.0 - 90.0	Daily Rain (in)	0.15	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	34.0 - 40.0	Wind Speed (MPH)	2.3 - 4.9	Barometer (inHg)	29.90 - 30.20			

Station Location Work Area	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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	28.7	* 362.4	10:22	0.5	0.7	10:15
PM-2	15.1	56.2	14:06	0.1	0.2	15:29
PM-3	15.8	37.4	13:57	0.0	0.0	8:25
PM-4	12.0	21.0	13:43	0.0	0.1	10:36
PM-5	6.5	18.5	14:14	0.0	0.0	9:01
PM-6	15.5	33.6	14:06	1.4	2.1	10:14
WZ-1	1.8	2.8	10:27	0.0	0.0	12:10
WZ-2	0.2	2.8	8:19	0.0	0.2	14:39

Station Location Work Area	Daily Avg. Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	7:33
PM-2	0.0	0.2	13:52
PM-3	0.0	0.0	8:26
PM-4	0.0	0.0	7:33
PM-5	0.0	0.0	7:33
PM-6	0.0	0.1	10:14
WZ-1	0.0	0.0	12:05
WZ-2	0.0	0.0	8:20



**Air Monitoring Notes:**

- Particulate matter less than 10 microns in diameter (PM10) exceeded the action level at perimeter station PM-1 from 10:09am to 10:23am due to an equipment malfunction. The dust monitoring unit was recalibrated and readings returned to background conditions. No fugitive dust was observed migrating from the site during this time.
- Langan used a Jerome® J505 mercury analyzer to monitor ambient air conditions throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.14  $\mu\text{g}/\text{m}^3$ . Raw data was unable to be retrieved from the second handheld Jerome® J505 mercury analyzer due to a data logging malfunction. Readings above background concentrations were not observed from this unit.
- Perimeter air monitoring station PM-3 was relocated to the western sidewalk of Beekman Street from 8:25am and from 10:00am to 11:40am during advancement of soil borings WC01A and WC02A.
- Perimeter air monitoring station PM-6 was relocated to the northern sidewalk of Pearl Street from 9:30am to 12:15pm during advancement of soil borings WC01A and WC01C.
- Work zone station WZ-1 was turned off at 12:10pm, work continued with one drill rig after 1:43pm and work zone station WZ-2 was used to monitor the work zone.
- 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.



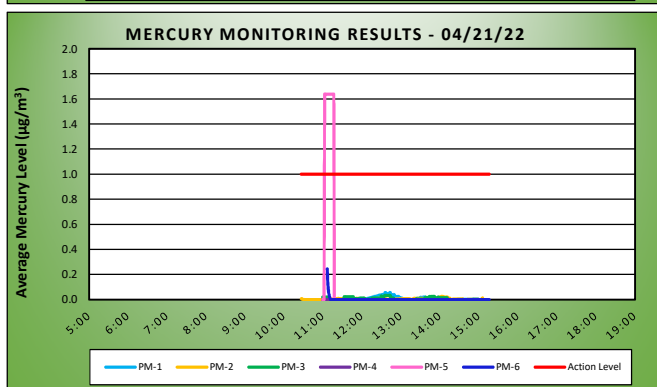
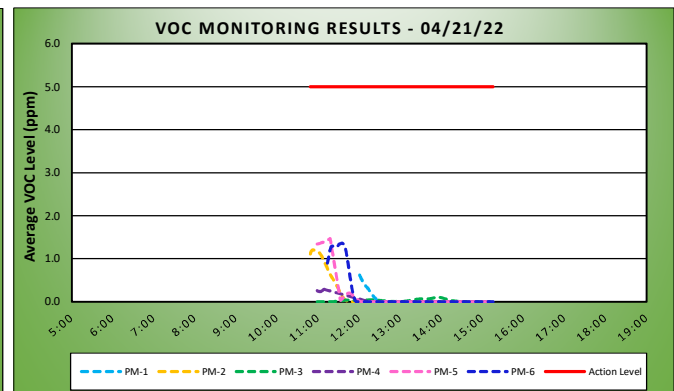
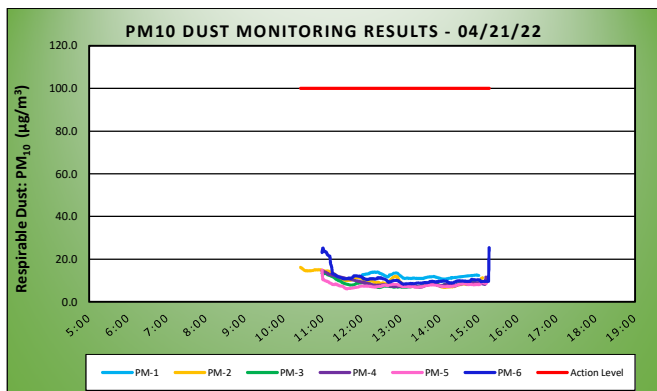


	<b>DAILY AIR MONITORING REPORT</b> <b>250 Water Street Remediation Site</b> <b>Manhattan, New York</b>				04/21/22					
					Project number: 170381202					
					Page 1 of 2					
					Submitted By: Lauren Roper					Rev. No. 0
					Dust Action Level ( $\mu\text{g}/\text{m}^3$ )					100
VOC Action Level (ppm)					5					
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )					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 ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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	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 ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	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  $\mu\text{g}/\text{m}^3$ . 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  $\mu\text{g}/\text{m}^3$  to 0.10  $\mu\text{g}/\text{m}^3$ .
  - 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  $\mu\text{g}/\text{m}^3$  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  $\mu\text{g}/\text{m}^3$  to 0.11  $\mu\text{g}/\text{m}^3$ .
- 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.







# DAILY AIR MONITORING REPORT

## 250 Water Street Remediation Site

### Manhattan, New York

04/22/22

Project number: 170381202

Page 1 of 2

Submitted By: Lauren Roper

Rev. No. 0

Dust Action Level ( $\mu\text{g}/\text{m}^3$ )

100

VOC Action Level (ppm)

5

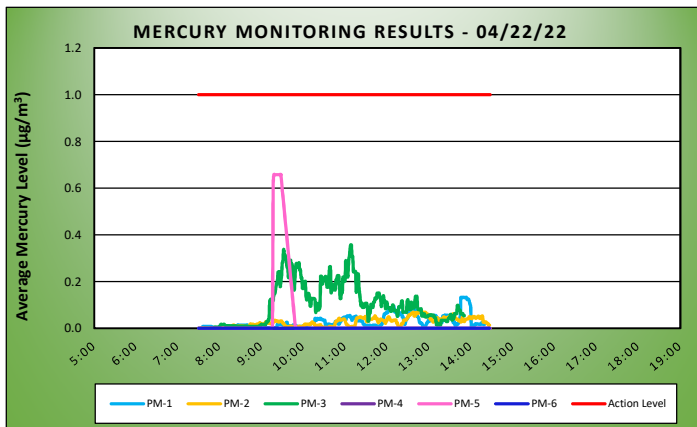
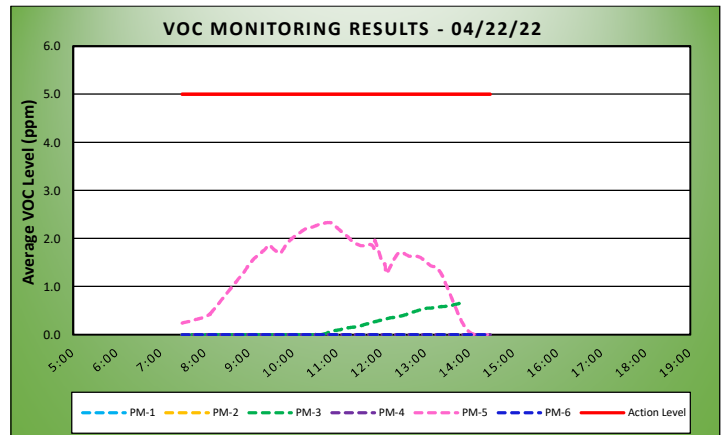
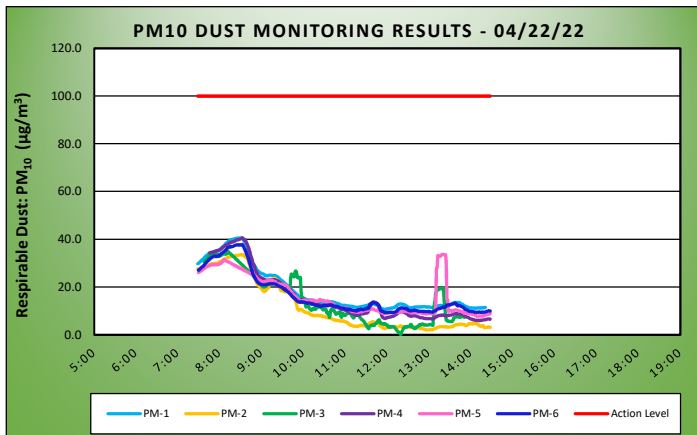
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )

1.0

Weather Data Range for Work Day		Wind Direction	E	Relative Humidity (%)	14.8 - 59.1	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	55.2 - 69.4	Wind Speed (MPH)	1.0 - 7.7	Barometer (inHg)	30.41 - 30.44			

Station Location Work Area	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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	18.8	40.7	8:32	0.0	0.0	7:29
PM-2	12.0	33.6	8:33	0.0	0.0	7:29
PM-3	13.8	34.7	8:13	0.2	0.7	13:51
PM-4	15.9	40.5	8:32	0.0	0.0	7:45
PM-5	15.6	33.7	13:21	1.3	2.3	10:47
PM-6	16.7	37.7	8:32	0.0	0.0	7:29

Station Location Work Area	Daily Avg. Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.1	13:46
PM-2	0.0	0.1	12:46
PM-3	0.1	0.4	11:08
PM-4	0.0	0.0	7:47
PM-5	0.0	0.7	9:18
PM-6	0.0	0.0	7:30



**Air Monitoring Notes:**

- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions throughout the site. Instantaneous mercury vapor concentrations ranged from 0.01  $\mu\text{g}/\text{m}^3$  to 0.15  $\mu\text{g}/\text{m}^3$ .
- Perimeter air monitoring station PM-3 was relocated to the northern sidewalk of Pearl Street from 7:00am to 8:08am and from 2:20pm to 2:27pm during installation of the perimeter construction fence along Pearl Street.
- Perimeter air monitoring station PM-5 was relocated to the northern sidewalk of Pearl Street from 8:08am to 1:13pm during installation of the perimeter construction fence along Pearl Street.
- Perimeter air monitoring station PM-2 was relocated to the western sidewalk of Beekman Street from 12:04 PM to 1:30 PM during installation of the perimeter construction fence along Pearl Street.
- 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. CAMP was discontinued at 2:27pm at the conclusion of ground-intrusive activities.
- Due to a downloading error on the handheld Jerome® J505 mercury analyzer, mercury vapor concentrations collected through the "Auto Sampling" function were not recorded.





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

04/23/22

Project number: 170381202

Page 1 of 2

Submitted By:

Rev. No. 0

Dust Action Level ( $\mu\text{g}/\text{m}^3$ )

100

VOC Action Level (ppm)

5

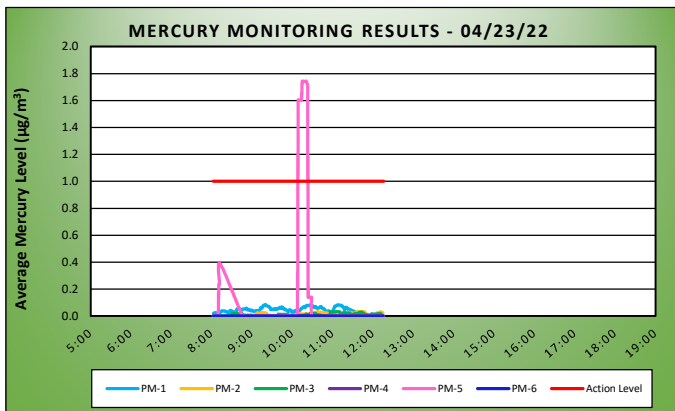
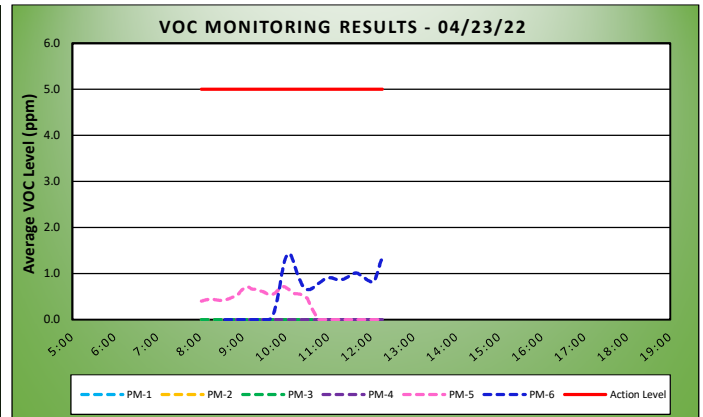
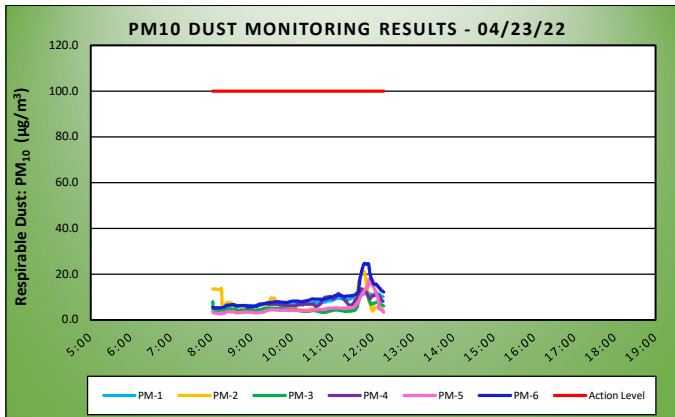
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )

1.0

Weather Data Range for Work Day		Wind Direction	S	Relative Humidity (%)	27.2 - 38.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	53.7 - 60.4	Wind Speed (MPH)	0.7 - 6.1	Barometer (inHg)	30.44 - 30.50			

Station Location Work Area	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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	7.7	11.8	11:51	0.0	0.0	8:02
PM-2	6.3	21.3	11:45	0.0	0.0	8:02
PM-3	6.1	12.8	11:48	0.0	0.0	8:02
PM-4	7.9	13.6	11:43	0.0	0.0	8:51
PM-5	5.1	17.8	11:54	0.3	0.7	9:57
PM-6	9.5	24.7	11:48	0.6	1.4	10:05

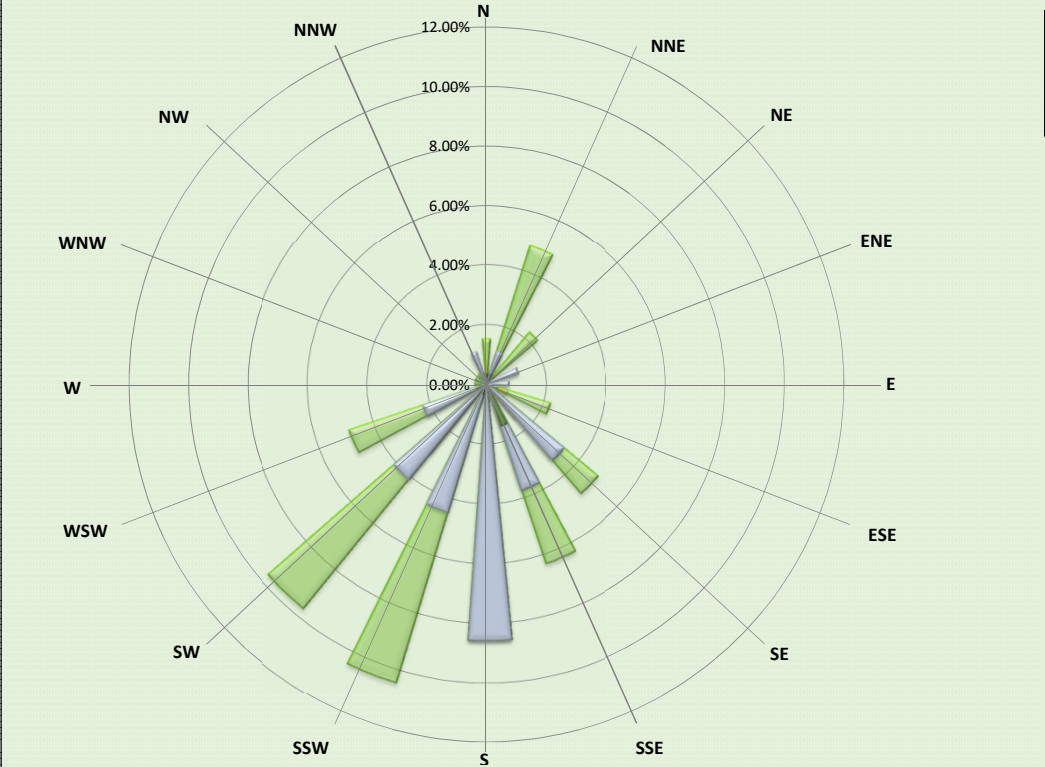
Station Location Work Area	Daily Avg. Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.1	9:20
PM-2	0.0	0.0	11:36
PM-3	0.0	0.0	11:06
PM-4	0.0	0.0	8:53
PM-5	0.2	*1.7	10:15
PM-6	0.0	0.0	8:03



**Air Monitoring Notes:**

- \* Mercury vapor concentrations exceeded the action level established in the CAMP from 10:09am to 10:23am 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 drilling activities.
  - Two instantaneous mercury vapor concentrations causing the erroneous exceedance were recorded at 2.1  $\mu\text{g}/\text{m}^3$  and 23.6  $\mu\text{g}/\text{m}^3$ . During the time of the exceedance, AARCO was in the process of advancing waste characterization soil boring WC11B.
  - Drilling activities were immediately halted to investigate the validity of the exceedance. Langan used a Jerome® J505 mercury vapor analyzer to collect readings from the station intake and instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.07  $\mu\text{g}/\text{m}^3$ .
  - The Jerome® J405 at perimeter station PM-5 was temporarily disconnected from the remote telemetry system to troubleshoot the issue and was replaced with the spare unit. The Jerome® J505 was used during the equipment replacement and instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.06  $\mu\text{g}/\text{m}^3$ .
  - The spare Jerome® J405 unit at perimeter station PM-5 continued to read 0.00  $\mu\text{g}/\text{m}^3$  for the remainder of the day.
- Langan used a Jerome® J505 mercury analyzer to monitor ambient air conditions throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.10  $\mu\text{g}/\text{m}^3$ .
- Perimeter air monitoring station PM-1 was relocated to the western sidewalk of Beekman Street from 11:39am to 11:59am during advancement of soil borings WC03A\_N1 and WC03A\_S1.
- 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. CAMP was discontinued at 12:15pm, after AARCO demobilized from the site.

Langan - 250 Water St Air  
Monitoring  
04/23/22  
Wind Speed & Direction  
Daily Readings



- > 10 MPH
- 8 - 10 MPH
- 6 - 8 MPH
- 4 - 6 MPH
- 2 - 4 MPH
- 1 - 2 MPH
- Calm

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

04/25/22

Project number: 170381202

Page 1 of 2

Submitted By: Lauren Roper

Rev. No. 0

Dust Action Level ( $\mu\text{g}/\text{m}^3$ )

100

VOC Action Level (ppm)

5

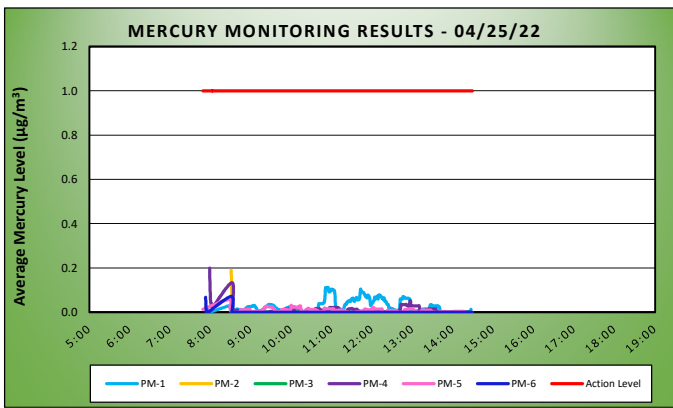
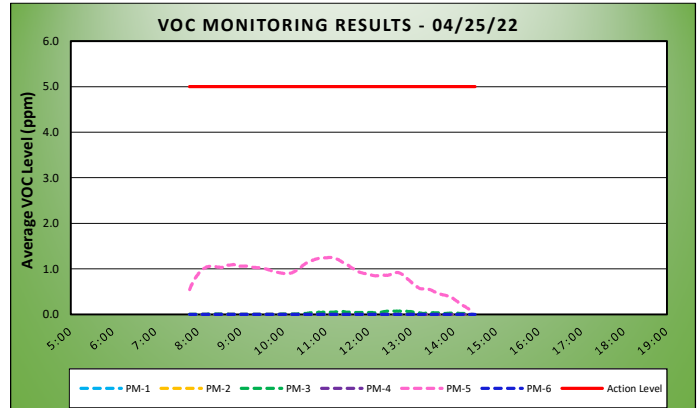
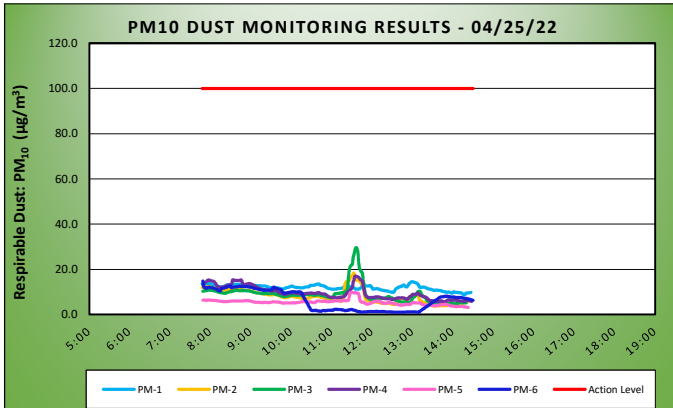
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )

1.0

Weather Data Range for Work Day		Wind Direction	SSW	Relative Humidity (%)	15.8 - 50.6	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	49.8 - 58.4	Wind Speed (MPH)	0.8 - 6.9	Barometer (inHg)	30.31 - 30.35			

Station Location Area	Work	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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		12.0	14.5	13:00	0.0	0.0	7:48
PM-2		8.1	18.3	11:33	0.0	0.0	7:48
PM-3		9.0	29.6	11:37	0.0	0.1	12:33
PM-4		9.6	17.1	11:36	0.0	0.0	8:06
PM-5		5.4	9.8	11:30	0.9	1.3	11:07
PM-6		6.6	14.8	7:49	0.0	0.0	7:48

Station Location Area	Work	Daily Avg. Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Max 15 Minute Avg Mercury Reading
PM-1		0.0	0.1	10:54
PM-2		0.0	0.2	8:31
PM-3		0.0	0.0	8:30
PM-4		0.0	0.2	7:59
PM-5		0.0	0.1	8:28
PM-6		0.0	0.1	8:31



**Air Monitoring Notes:**

- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.10  $\mu\text{g}/\text{m}^3$ .
- Perimeter air monitoring station PM-5 was relocated to the western sidewalk of Beekman Street from 8:03am to 10:10am during installation of the perimeter construction fence along Beekman Street.
- Perimeter air monitoring station PM-3 was relocated to the southern sidewalk of Water Street from 10:10am to 2:50pm during installation of the perimeter construction fence along Water Street.
- Perimeter air monitoring station PM-6 was relocated to the northern sidewalk of Pearl Street from 1:35pm to 2:50pm during installation of the perimeter construction fence along Pearl Street.
- 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. CAMP stations were discontinued sequentially between 2:50pm and 3:03pm at the conclusion of ground-intrusive activities.





# DAILY AIR MONITORING REPORT

## 250 Water Street Remediation Site

### Manhattan, New York

04/26/22

Project number: 170381202

Page 1 of 2

Submitted By: Lauren Roper

Rev. No. 0

Dust Action Level ( $\mu\text{g}/\text{m}^3$ )

100

VOC Action Level (ppm)

5

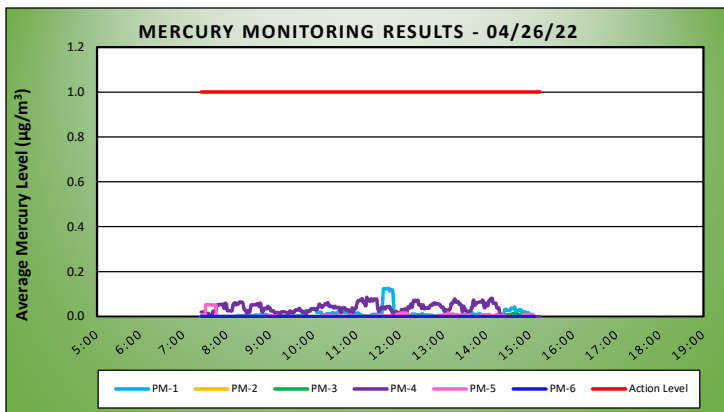
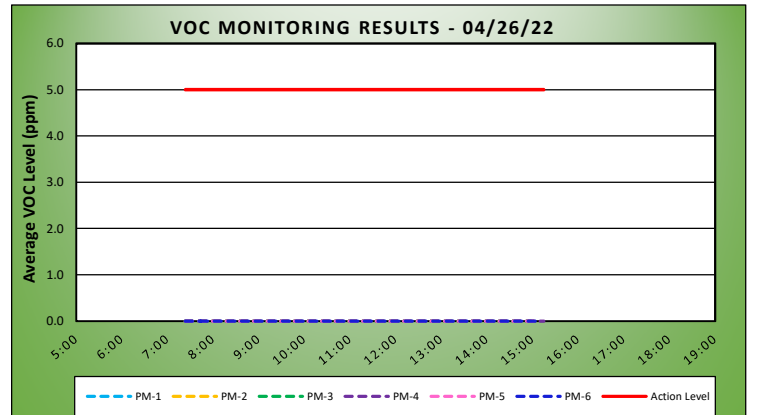
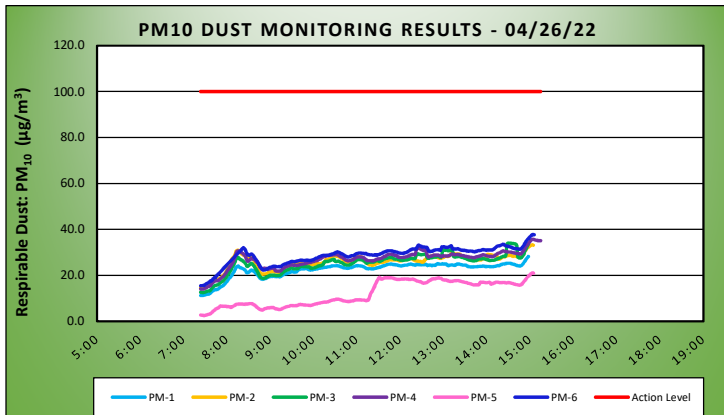
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )

1.0

Weather Data Range for Work Day		Wind Direction	NNE	Relative Humidity (%)	66.0 - 77.4	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	54.1 - 59.1 <th>Wind Speed (MPH)</th> <td>0.4 - 6.0 <th>Barometer (inHg)</th> <td>30.07 - 30.20</td> </td>	Wind Speed (MPH)	0.4 - 6.0 <th>Barometer (inHg)</th> <td>30.07 - 30.20</td>	Barometer (inHg)	30.07 - 30.20			

Station Location Area	Work	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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		22.4	28.2	14:58	0.0	0.0	7:24
PM-2		25.8	33.3	15:03	0.0	0.0	7:24
PM-3		25.2	34.0	14:32	0.0	0.0	7:24
PM-4		26.9	35.8	15:04	0.0	0.0	7:24
PM-5		12.1	21.1	15:04	0.0	0.0	7:24
PM-6		28.8	37.8	15:04	0.0	0.0	7:24

Station Location Area	Work	Daily Avg. Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Max 15 Minute Avg Mercury Reading
PM-1		0.0	0.1	11:43
PM-2		0.0	0.0	7:25
PM-3		0.0	0.0	14:36
PM-4		0.0	0.1	11:14
PM-5		0.0	0.1	7:31
PM-6		0.0	0.0	7:25



**Air Monitoring Notes:**

- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.12  $\mu\text{g}/\text{m}^3$ .
- Perimeter air monitoring station PM-6 was relocated to the southern sidewalk of Water Street from 7:08am to 3:05pm during installation of the perimeter construction fence along Water Street.
- Perimeter air monitoring station PM-5 was relocated to the eastern sidewalk of Peck Slip Street from 1:30pm to 3:03pm during installation of the perimeter construction fence along Peck Slip Street.
- 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. CAMP stations were discontinued sequentially between 2:55pm and 3:05pm at the conclusion of ground-intrusive activities.









# DAILY AIR MONITORING REPORT

## 250 Water Street Remediation Site

### Manhattan, New York

04/27/22

Project number: 170381202

Page 1 of 2

Submitted By: Lauren Roper

Rev. No. 0

Dust Action Level ( $\mu\text{g}/\text{m}^3$ )

100

VOC Action Level (ppm)

5

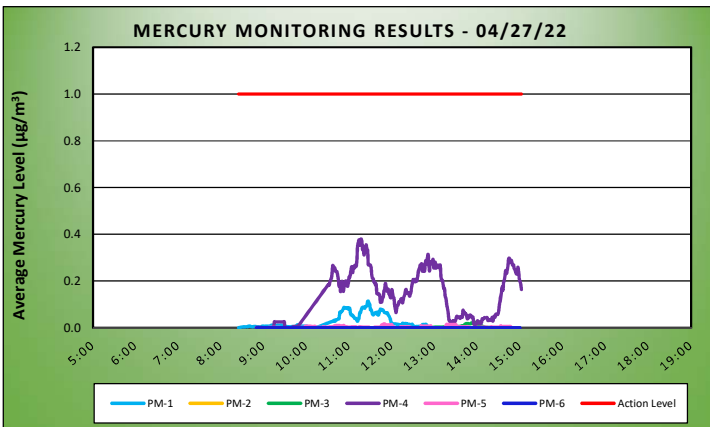
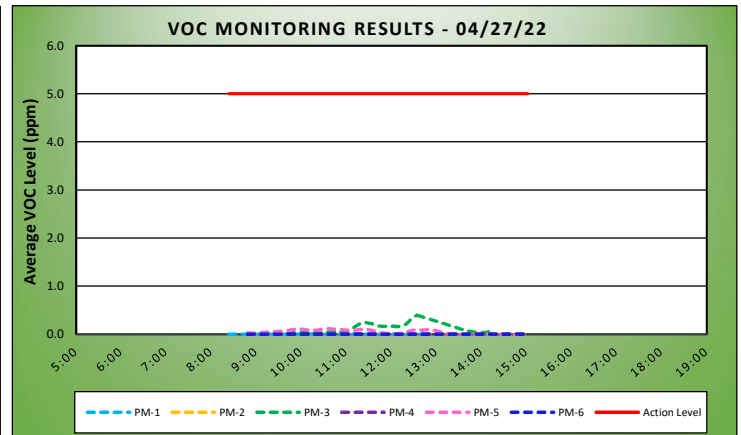
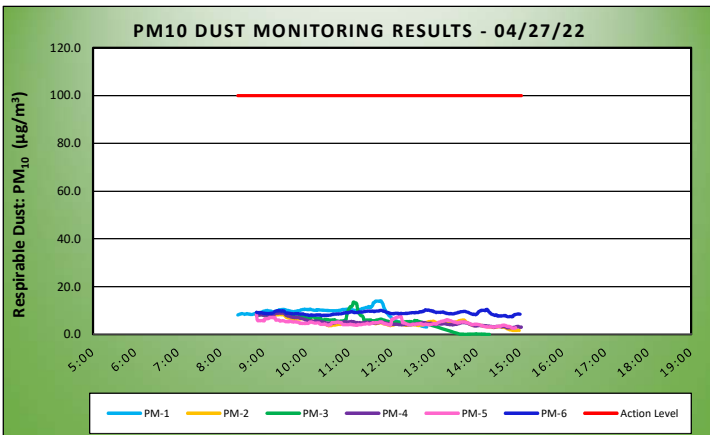
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )

1.0

Weather Data Range for Work Day		Wind Direction	ENE	Relative Humidity (%)	24.2 - 38.5	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	51.9 - 59.0	Wind Speed (MPH)	0.9 - 7.7	Barometer (inHg)	29.97 - 30.04			

Station Location Work Area	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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	8.5	14.1	11:44	0.0	0.0	8:24
PM-2	4.9	8.4	8:56	0.0	0.0	8:50
PM-3	5.6	13.5	11:06	0.1	0.4	12:35
PM-4	5.1	9.0	9:27	0.0	0.0	8:49
PM-5	4.9	8.7	8:50	0.0	0.1	10:35
PM-6	8.9	10.5	14:13	0.0	0.0	8:49

Station Location Work Area	Daily Avg. Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.1	11:27
PM-2	0.0	0.0	9:25
PM-3	0.0	0.0	13:56
PM-4	0.1	0.4	11:17
PM-5	0.0	0.0	11:49
PM-6	0.0	0.0	8:50



**Air Monitoring Notes:**

- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 1.06  $\mu\text{g}/\text{m}^3$ .
- One instantaneous mercury vapor concentration was detected using the handheld Jerome® J505 mercury vapor analyzer at 1.06  $\mu\text{g}/\text{m}^3$  at 10:44am. During this time, the dedicated air monitor was located between the western sidewalk of Beekman Street, between the work zone and the off-site CAMP station. No on-site source was identified, as no ground-intrusive activities were ongoing at the time of the elevated reading. The instantaneous concentration was the only reading recorded above the action level, and did not result in a 15-minute time-weighted-average above the action level established in the CAMP.
- Perimeter air monitoring station PM-1 was relocated to the western sidewalk of Beekman Street from 10:13am to 12:47pm during installation of the perimeter construction fence along Beekman Street.
- Perimeter air monitoring station PM-3 was relocated to the northern sidewalk of Pearl Street from 1:01pm to 2:22pm during installation of the perimeter construction fence along Pearl Street.
- 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. CAMP stations were discontinued at 2:53pm at the conclusion of ground-intrusive activities.







# DAILY AIR MONITORING REPORT

## 250 Water Street Remediation Site

### Manhattan, New York

04/28/22

Project number: 170381202

Page 1 of 2

Submitted By: Lauren Roper

Rev. No. 0

Dust Action Level ( $\mu\text{g}/\text{m}^3$ )

100

VOC Action Level (ppm)

5

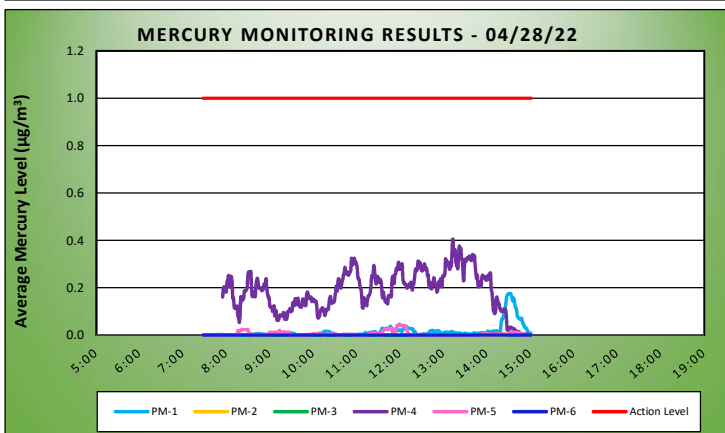
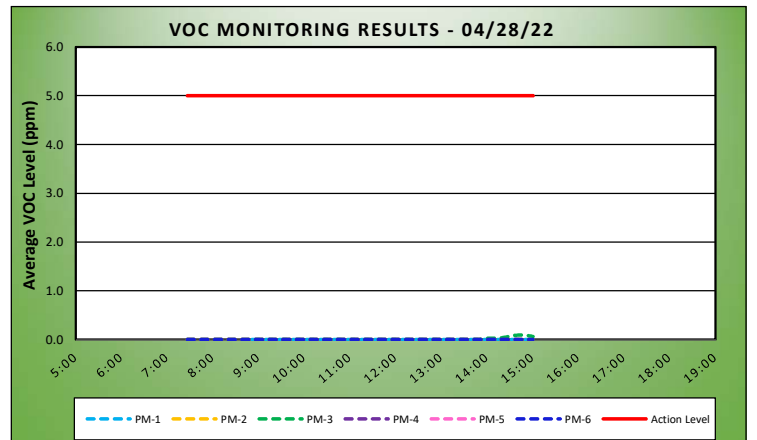
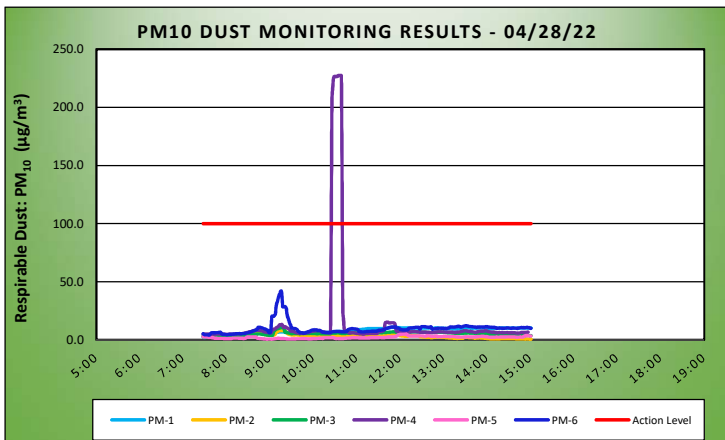
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )

1.0

Weather Data Range for Work Day		Wind Direction	NE	Relative Humidity (%)	12.7 - 41.4	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	42.8 - 58.4 <th>Wind Speed (MPH)</th> <td>1.3 - 8.3 <th>Barometer (inHg)</th> <td>30.02 - 30.11</td> </td>	Wind Speed (MPH)	1.3 - 8.3 <th>Barometer (inHg)</th> <td>30.02 - 30.11</td>	Barometer (inHg)	30.02 - 30.11			

Station Location Area	Work	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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		7.9	10.8	11:55	0.0	0.0	8:52
PM-2		3.1	8.1	9:14	0.0	0.0	7:27
PM-3		5.2	10.7	9:19	0.0	0.1	14:46
PM-4		14.0	*227.5	10:36	0.0	0.0	7:27
PM-5		2.2	4.9	12:09	0.0	0.0	7:27
PM-6		9.8	42.0	9:16	0.0	0.0	7:27

Station Location Area	Work	Daily Avg. Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Max 15 Minute Avg Mercury Reading
PM-1		0.0	0.2	14:30
PM-2		0.0	0.0	7:29
PM-3		0.0	0.0	14:05
PM-4		0.2	0.4	13:13
PM-5		0.0	0.0	11:59
PM-6		0.0	0.0	7:28



**Air Monitoring Notes:**

- \* Particulate concentrations exceeded the action level established in the CAMP from 10:26am to 10:40am at perimeter station PM-4, located along Beekman Street. Work was not occurring in the vicinity of the unit and no visible dust was observed. The particulate monitor at perimeter station PM-4 was recalibrated readings returned to background conditions.
- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.45  $\mu\text{g}/\text{m}^3$ .
- Perimeter air monitoring station PM-5 was relocated to the western sidewalk during installation of the perimeter construction fence along Peck Slip from 7:36am to 2:56pm.
- 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. CAMP stations were discontinued at 2:56pm at the conclusion of ground-intrusive activities.







# DAILY AIR MONITORING REPORT

## 250 Water Street Remediation Site

### Manhattan, New York

04/29/22

Project number: 170381202

Page 1 of 2

Submitted By: Gabriella DeGennaro

Rev. No. 0

Dust Action Level ( $\mu\text{g}/\text{m}^3$ )

100

VOC Action Level (ppm)

5

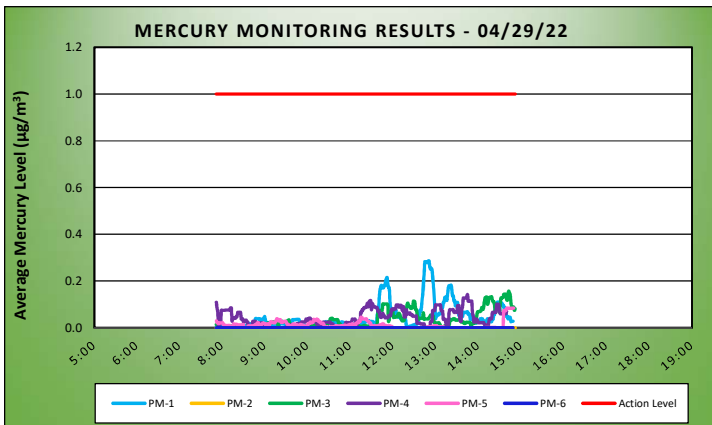
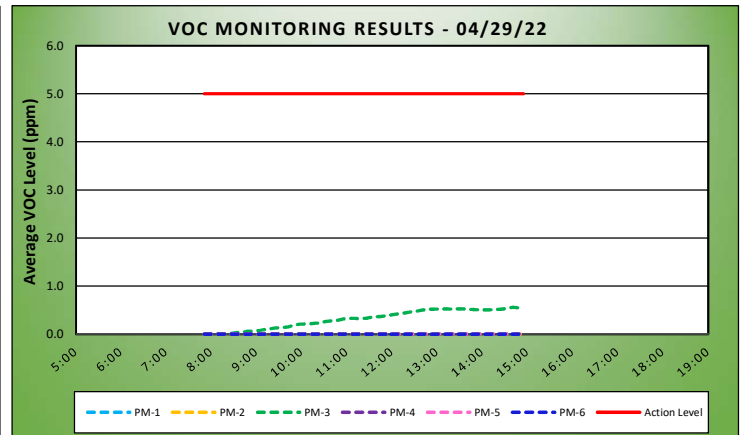
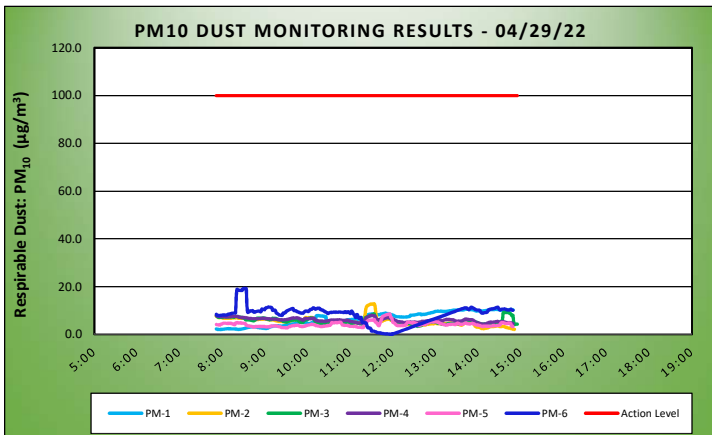
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )

1.0

Weather Data Range for Work Day		Wind Direction	NNE	Relative Humidity (%)	9.5 - 11.4	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	60.6 - 63.4	Wind Speed (MPH)	1.7 - 6.0	Barometer (inHg)	30.06 - 30.09			

Station Location Work Area	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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	10.6	13:42	0.0	0.0	7:51
PM-2	5.3	12.8	11:34	0.0	0.0	7:51
PM-3	5.8	9.3	14:36	0.3	0.6	14:42
PM-4	6.1	8.0	11:30	0.0	0.0	7:51
PM-5	4.2	8.5	11:55	0.0	0.0	14:08
PM-6	9.0	19.2	8:30	0.0	0.0	7:51

Station Location Work Area	Daily Avg. Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.3	12:51
PM-2	0.0	0.0	7:52
PM-3	0.0	0.2	14:43
PM-4	0.0	0.1	13:45
PM-5	0.0	0.1	14:50
PM-6	0.0	0.0	7:52

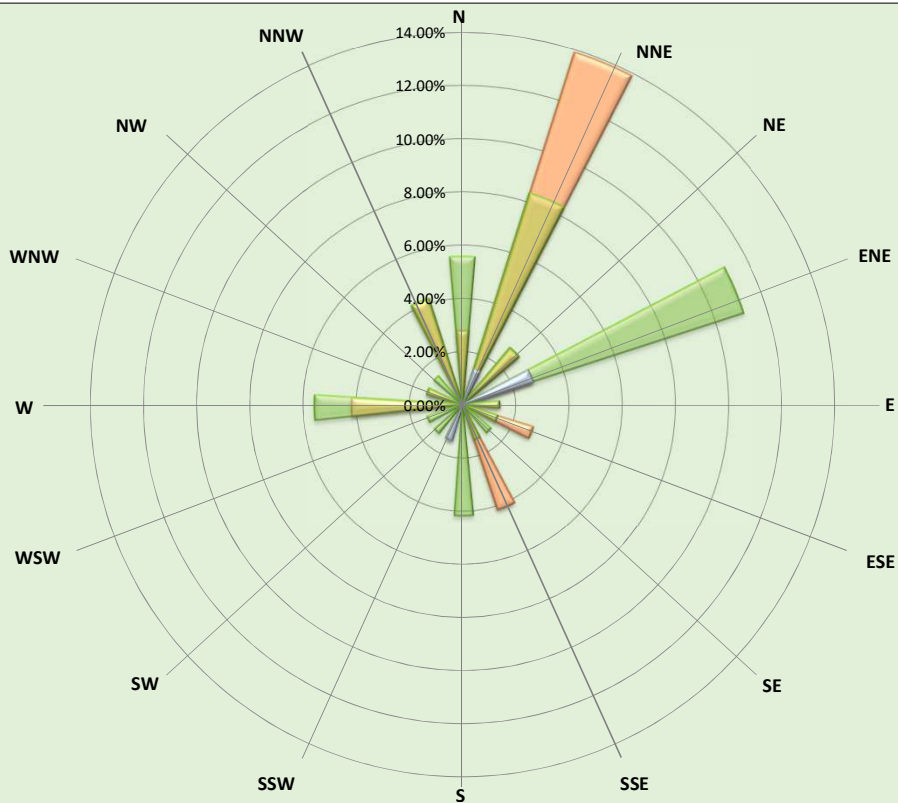


**Air Monitoring Notes:**

- Langan used a handheld Jerome<sup>®</sup> J505 mercury analyzer to monitor ambient air conditions throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.24  $\mu\text{g}/\text{m}^3$ .
- Concentrations of PM10, VOCs, and mercury vapor were not recorded at perimeter station PM-6 from 12:00pm to 1:25pm due to a malfunction with the telemetry system. The handheld Jerome<sup>®</sup> J505 unit was used to record mercury vapor concentrations at the location of perimeter station PM-6 while troubleshooting was completed.
  - Instantaneous mercury vapor concentrations recorded by the handheld Jerome<sup>®</sup> J505 unit ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.07  $\mu\text{g}/\text{m}^3$ .
  - Ground-intrusive activities were not ongoing during this time and fugitive dust or odors were not observed migrating from the site.
- Concentrations of mercury vapor were not recorded at perimeter station PM-2 from 1:48pm 2:17pm due to a malfunction with the telemetry system. The handheld Jerome<sup>®</sup> J505 unit was used to record mercury vapor concentrations at the location of perimeter station PM-2 while troubleshooting was completed.
  - Instantaneous mercury vapor concentrations recorded by the handheld Jerome<sup>®</sup> J505 unit ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.08  $\mu\text{g}/\text{m}^3$ .
  - Ground-intrusive activities were not ongoing during this time.
- 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. CAMP stations were discontinued at 2:50pm at the conclusion of ground-intrusive activities.



Langan - 250 Water St Air  
Monitoring  
04/29/22  
Wind Speed & Direction  
Daily Readings



- > 10 MPH
- 8 - 10 MPH
- 6 - 8 MPH
- 4 - 6 MPH
- 2 - 4 MPH
- 1 - 2 MPH
- Calm



# DAILY AIR MONITORING REPORT

## 250 Water Street Remediation Site

### Manhattan, New York

04/30/22

Project number: 170381202

Page 1 of 2

Submitted By:

Rev. No. 0

Dust Action Level ( $\mu\text{g}/\text{m}^3$ )

100

VOC Action Level (ppm)

5

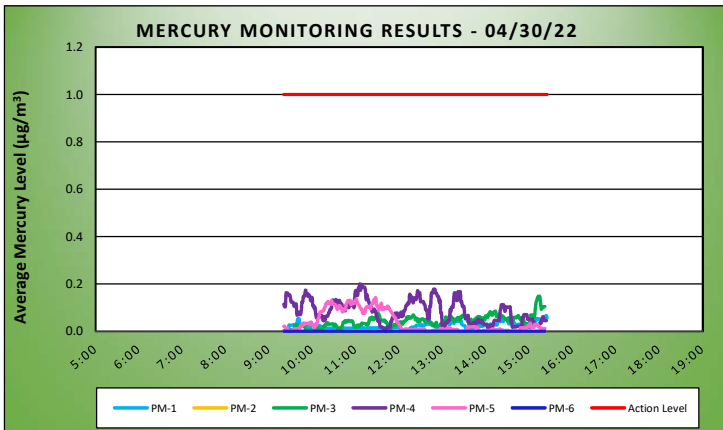
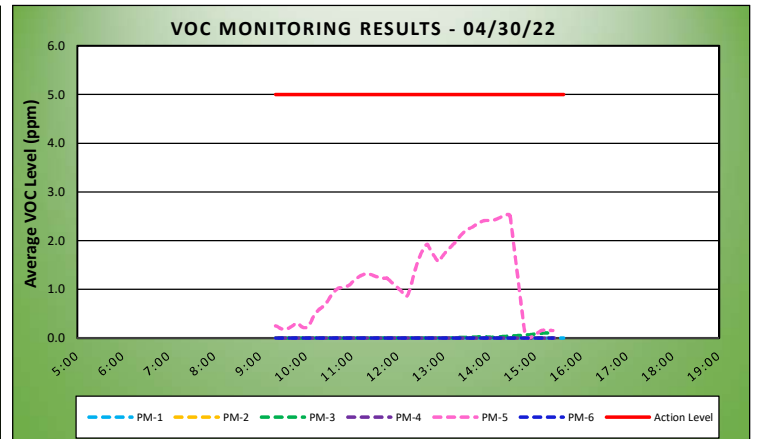
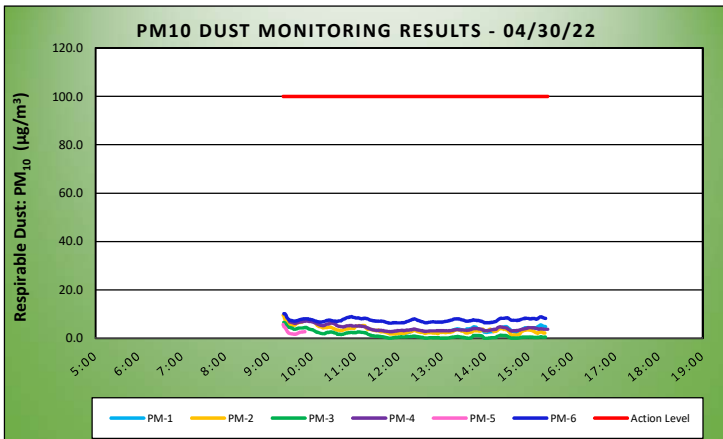
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )

1.0

Weather Data Range for Work Day		Wind Direction	NE	Relative Humidity (%)	13.6 - 23.9	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	53.2 - 66.3	Wind Speed (MPH)	1.2 - 7.0	Barometer (inHg)	30.13 - 30.22			

Station Location Area	Work	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	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		17.7	5.5	15:16	0.0	0.0	9:20
PM-2		3.7	9.4	9:20	0.0	0.0	9:20
PM-3		1.4	6.6	9:21	0.0	0.1	15:23
PM-4		4.3	7.5	9:28	0.0	0.0	9:24
PM-5		19.6	5.6	9:20	1.2	2.5	14:24
PM-6		7.5	10.2	9:21	0.0	0.0	9:20

Station Location Area	Work	Daily Avg. Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Mercury Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Max 15 Minute Avg Mercury Reading
PM-1		0.0	0.1	15:24
PM-2		0.0	0.0	9:21
PM-3		0.0	0.1	15:13
PM-4		0.1	0.2	11:06
PM-5		0.0	0.1	11:28
PM-6		0.0	0.0	9:21



**Air Monitoring Notes:**

- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.03  $\mu\text{g}/\text{m}^3$ .
- Concentrations of PM10 were not recorded at perimeter station PM-1 from 9:00am to 11:42am due to a calibration error with the particulate monitor. Troubleshooting was completed and the monitor was not able to be repaired.
- The particulate monitor from perimeter station PM-1 was swapped with the particulate monitor from perimeter station PM-5, which was located in the northeastern portion of the site and about 180 feet away from the work area in an upwind direction.
- Fugitive dust was not observed migrating from the site throughout the work day.
- The malfunctioning particulate monitor is anticipated to be replaced on Monday, May 2, 2022.
- 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. CAMP stations were discontinued at 3:20pm at the conclusion of ground-intrusive activities.



