

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

05/11/22

Project number: 170381202

Page 1 of 2

Submitted By: Lauren Roper, Brian Kenneally

Rev. No. 0

Dust Action Level ($\mu\text{g}/\text{m}^3$) 100

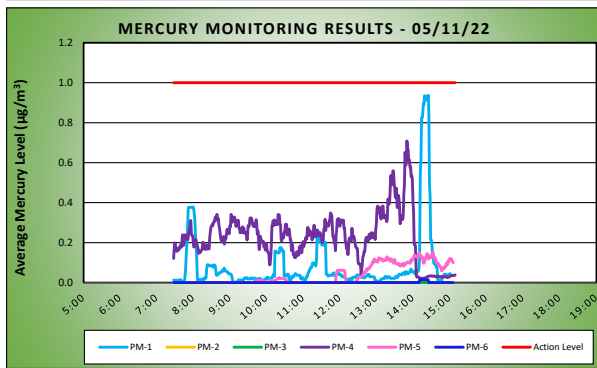
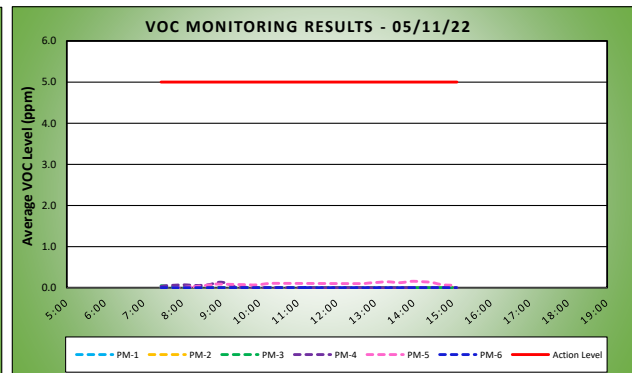
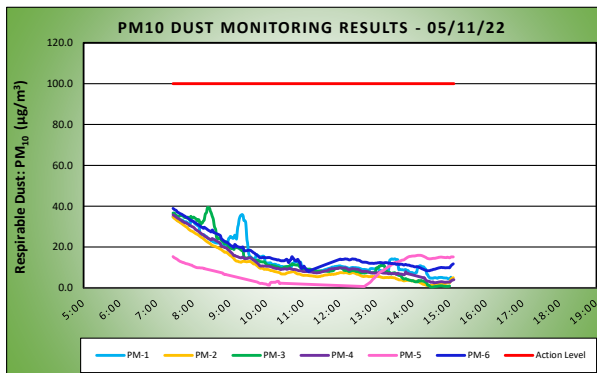
VOC Action Level (ppm) 5

Hg Action Level ($\mu\text{g}/\text{m}^3$) 1.0

Weather Data Range for Work Day		Wind Direction	NNE	Relative Humidity (%)	25.5 - 41.2	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	59.7 - 74.1	Wind Speed (MPH)	1.3 - 9.4	Barometer (inHg)	30.31 - 30.36			

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	14.9	35.9	9:20	0.0	0.0	7:27
PM-2	10.6	34.8	7:27	0.0	0.0	7:29
PM-3	13.6	39.4	8:24	0.0	0.0	7:27
PM-4	12.6	35.8	7:27	0.0	0.1	8:59
PM-5	9.6	16.0	14:08	0.1	0.2	14:00
PM-6	17.1	38.9	7:27	0.0	0.0	7:27

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	0.1	0.9	14:25
PM-2	0.0	0.0	14:22
PM-3	0.0	0.0	7:28
PM-4	0.2	0.7	13:50
PM-5	0.0	0.2	14:33
PM-6	0.0	0.0	14:11



Air Monitoring Notes:

- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions within the work zone and throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.26 $\mu\text{g}/\text{m}^3$, with the exception of one elevated reading discussed below.
 - One instantaneous mercury vapor concentration was detected using the handheld Jerome® J505 mercury vapor analyzer at 3.26 $\mu\text{g}/\text{m}^3$ at 12:00pm. During this time, CCIV was installing a dewatering system in the western portion of the site. 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.
- Langan used a handheld photoionization detector (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.
 - Concentrations of PM10 and VOCs were not recorded at perimeter station PM5, which was located upwind of the work area, from 8:18am and 8:32am, 8:52am to 9:10am, 9:18am to 9:30am, 10:22am to 10:33am, 10:36am to 11:52am, and 11:57am to 12:25pm due to a faulty wire within the CAMP station. Troubleshooting was completed by the company supplying the equipment (Triumvirate/Emilcott) and the station was repaired at 12:26pm.
 - Perimeter CAMP station PM-5 was located in the northeastern portion of the site and about 150 feet away from the work area in an upwind direction.
 - Fugitive dust or odors were not observed migrating from the site during these times.
 - VOC concentrations were not recorded above background conditions using the handheld PID.
 - Instantaneous mercury vapor concentrations recorded with the handheld Jerome® J505 mercury vapor analyzer ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.11 $\mu\text{g}/\text{m}^3$ during these times (with the exception of the elevated reading discussed above).
- Concentrations of PM10 and VOCs were not recorded at perimeter station PM6, which was located upwind of the work area, from 11:11am to 11:46am due to a malfunction with the telemetry system. The modem within perimeter station PM-6 was reset and data logging resumed at 11:47am.
 - Fugitive dust or odors were not observed migrating off-site during this time.
 - VOC concentrations were not recorded above background conditions using the handheld PID.
- The Jerome® J405 unit within perimeter CAMP station PM-4 was replaced with the handheld Jerome® J505 mercury vapor analyzer at 1:52pm due to prolonged false positive readings detected from the CAMP station. The spare Jerome® J405 unit will be used while the malfunctioning unit is replaced.
 - 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 2:58pm and 3:07pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.03 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station were recorded at 0.0 ppm.



DAILY AIR MONITORING REPORT

250 Water Street Remediation Site

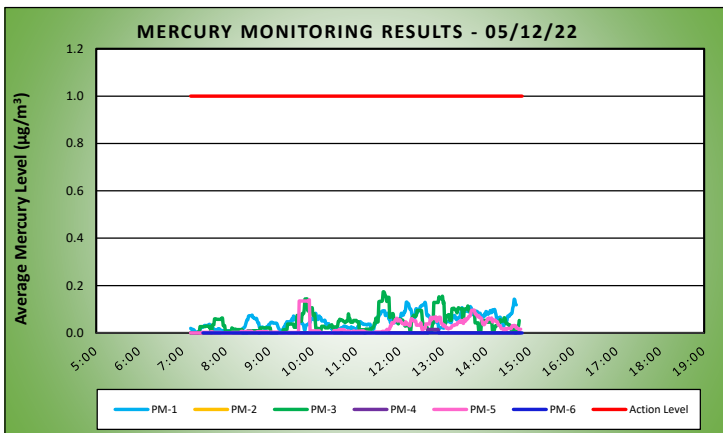
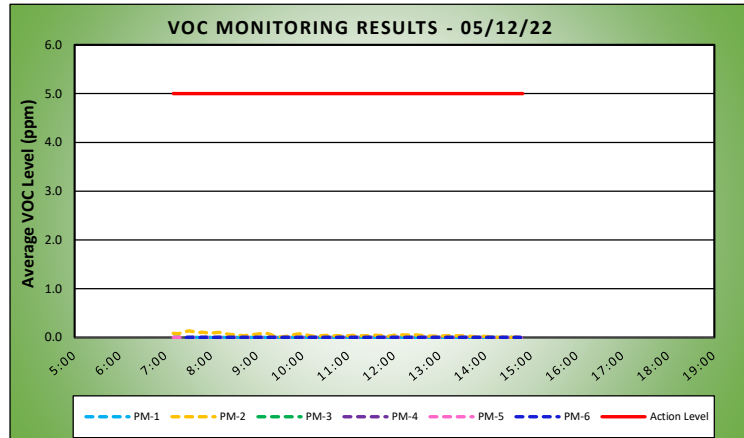
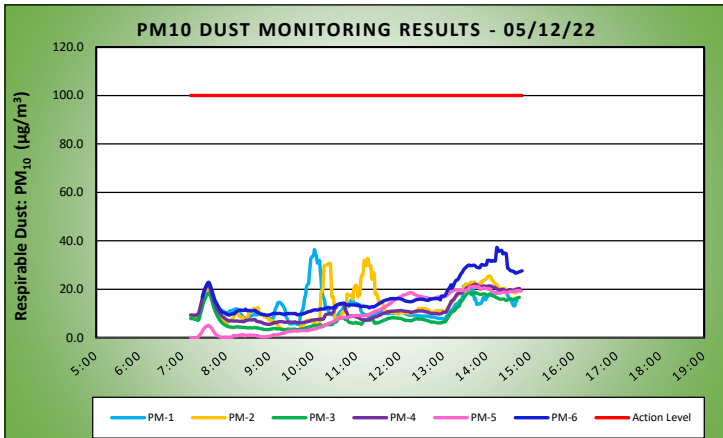
Manhattan, New York

05/12/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By: Lauren Roper, Brian Kenneally	
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	N	Relative Humidity (%)	53.3 - 65.6	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	61.8 - 70.7	Wind Speed (MPH)	0.8 - 7.6	Barometer (inHg)	30.34 - 30.40			

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		12.7	36.4	10:02	0.0	0.0	7:34
PM-2		13.7	32.7	11:16	0.0	0.1	7:31
PM-3		8.5	18.8	13:37	0.0	0.0	7:10
PM-4		11.7	22.0	13:44	0.0	0.0	7:10
PM-5		9.8	21.2	13:43	0.0	0.0	7:10
PM-6		16.9	37.2	14:14	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	0.1	14:38
PM-2		0.0	0.0	7:11
PM-3		0.0	0.2	11:37
PM-4		0.0	0.0	12:39
PM-5		0.0	0.1	9:55
PM-6		0.0	0.0	7:28

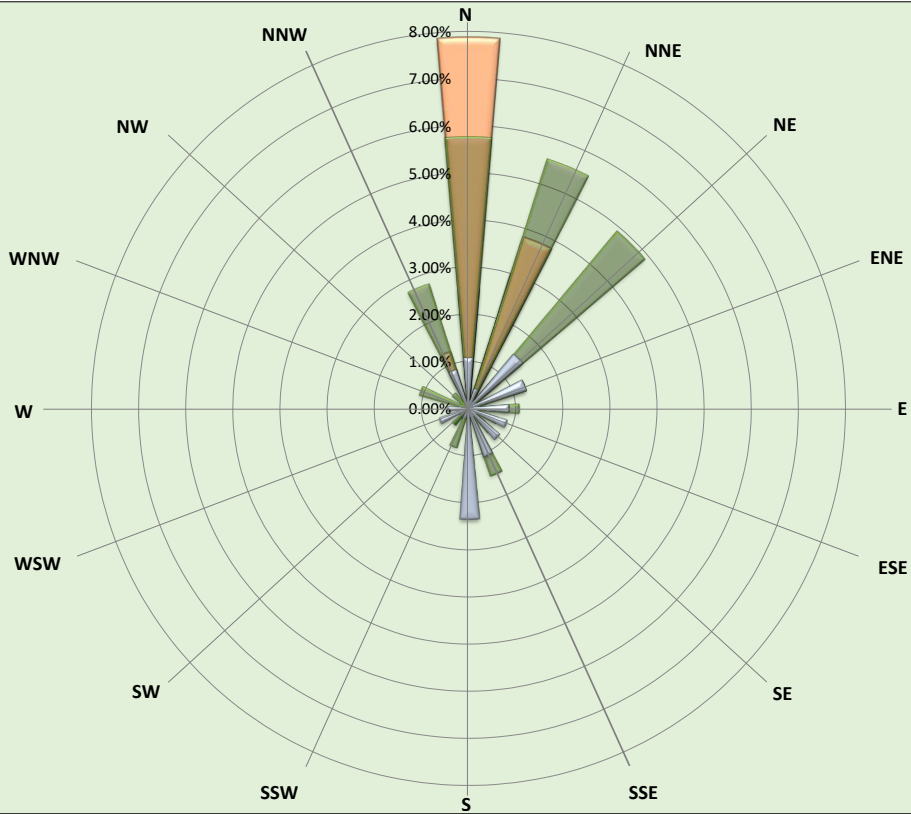


Air Monitoring Notes:

- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions within the work zone and throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.23 $\mu\text{g}/\text{m}^3$.
- Langan used a handheld photoionization detector (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.
- 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 2:59pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.08 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station were recorded at 0.0 ppm.



Langan - 250 Water St Air
Monitoring
05/12/22
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

05/13/22

Project number: 170381202

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Rev. No. 0

Submitted By: Lauren Roper, Brian Kenneally

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

100

VOC Action Level (ppm)

5

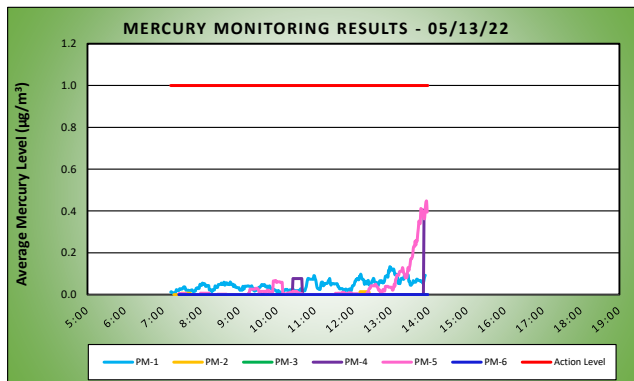
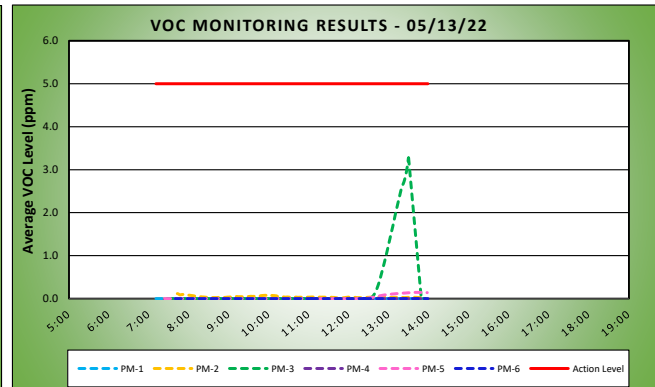
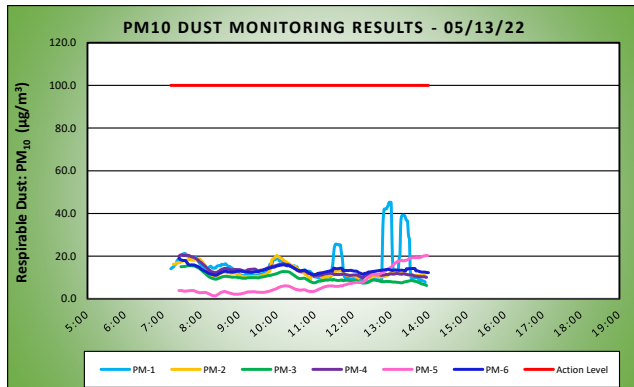
Hg Action Level ($\mu\text{g}/\text{m}^3$)

1.0

Weather Data Range for Work Day		Wind Direction	NNE	Relative Humidity (%)	62.6 - 82.1	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	60.2 - 71.6	Wind Speed (MPH)	1.0 - 8.0	Barometer (inHg)	30.32 - 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	15.4	45.3	12:58	0.0	0.0	7:11
PM-2	12.7	20.2	10:00	0.0	0.1	7:43
PM-3	9.8	15.6	7:42	0.3	3.3	13:30
PM-4	13.3	20.6	7:29	0.0	0.0	7:41
PM-5	7.3	20.3	13:57	0.0	0.1	13:41
PM-6	13.6	18.9	7:25	0.0	0.0	7:40

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	12:58
PM-2	0.0	0.0	12:11
PM-3	0.0	0.0	7:29
PM-4	0.0	0.4	13:52
PM-5	0.0	0.4	13:56
PM-6	0.0	0.0	7:25



Air Monitoring Notes:

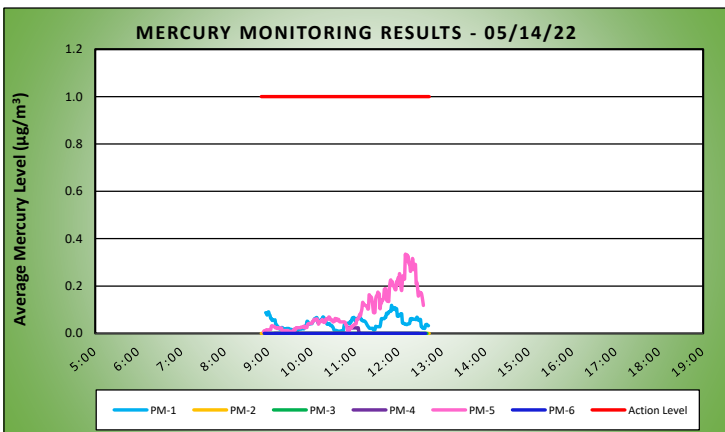
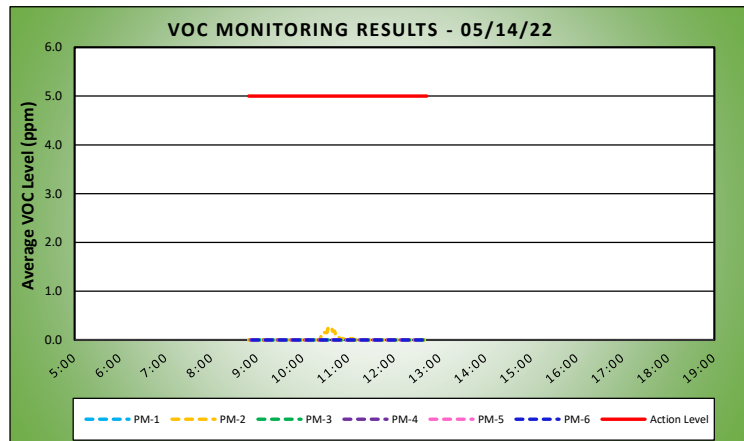
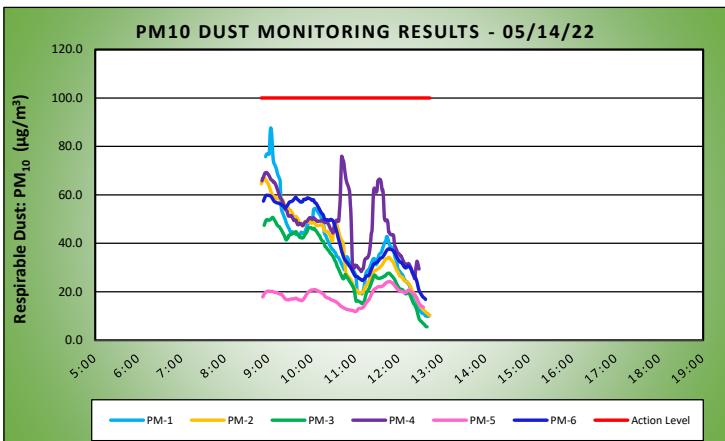
- Prior to discontinuing the CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station. CAMP stations were discontinued sequentially from 1:44pm to 1:59pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.06 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station ranged from 0.0 ppm to 0.1 ppm.
- Langan used a handheld Jerome[®] J505 mercury analyzer to monitor ambient air conditions within the work zone and throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.09 $\mu\text{g}/\text{m}^3$.
- Langan used a handheld photoionization detector (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.
- Concentrations of PM10 were not recorded at perimeter station PM-2 from 10:01am to 10:10am due to a connection issue within the CAMP station. The DustTrak within perimeter station PM-2 was reset and data logging resumed at 10:11am. Mercury vapor data was manually downloaded and concentrations during this time were recorded at 0.00 $\mu\text{g}/\text{m}^3$.
- Instantaneous mercury vapor concentrations recorded with the handheld Jerome[®] J505 mercury vapor analyzer at perimeter station PM-2 ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.09 $\mu\text{g}/\text{m}^3$ between 9:50am and 10:01am.
- Fugitive dust was not observed migrating from the site during these times.
- Concentrations of PM10 and VOCs were not recorded at perimeter station PM-6, which was located upwind of the work area, from 11:05am to 11:11am and from 12:25pm to 12:39pm, due to a malfunction with the telemetry system. The modem within perimeter station PM-6 was reset and data logging resumed at 11:12am and 12:40pm, respectively. Mercury vapor data was manually downloaded and concentrations during this time were recorded at 0.00 $\mu\text{g}/\text{m}^3$.
- Instantaneous mercury vapor concentrations recorded with the handheld Jerome[®] J505 mercury vapor analyzer at perimeter station PM-6 ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.07 $\mu\text{g}/\text{m}^3$ during these times.
- Fugitive dust and odors were not observed migrating from the site during these times.
- VOC concentrations were not recorded above background conditions using the handheld PID.
- Concentrations of VOCs were not recorded at perimeter station PM-3, which was located upwind of the work area, from 1:31pm to 1:33pm during instrument recalibration. Data logging resumed at 1:34pm and instantaneous VOC concentrations recorded with the handheld PID ranged from 0.0 to 0.2 ppm during this time.
- Odors were not observed migrating from the site during this time.
- VOC concentrations were not recorded above background conditions using the handheld PID.

	DAILY AIR MONITORING REPORT				05/14/22	
	250 Water Street Remediation Site				Project number: 170381202	
	Manhattan, New York				Page 1 of 2	
					Submitted By: Audrey Seery, Lexi Haley	
					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	ESE	Relative Humidity (%)	81.0 - 92.0	Daily Rain (in)	0.01	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	63.0 - 67.0	Wind Speed (MPH)	1.2 - 2.5	Barometer (inHg)	30.10 - 30.10			

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		38.5	87.6	9:03	0.0	0.0	8:55
PM-2		37.5	66.7	8:55	0.0	0.3	10:34
PM-3		30.6	50.7	9:06	0.0	0.0	8:54
PM-4		48.4	76.0	10:41	0.0	0.0	8:51
PM-5		17.9	24.2	11:47	0.0	0.0	8:52
PM-6		41.4	59.8	8:58	0.0	0.0	8:53

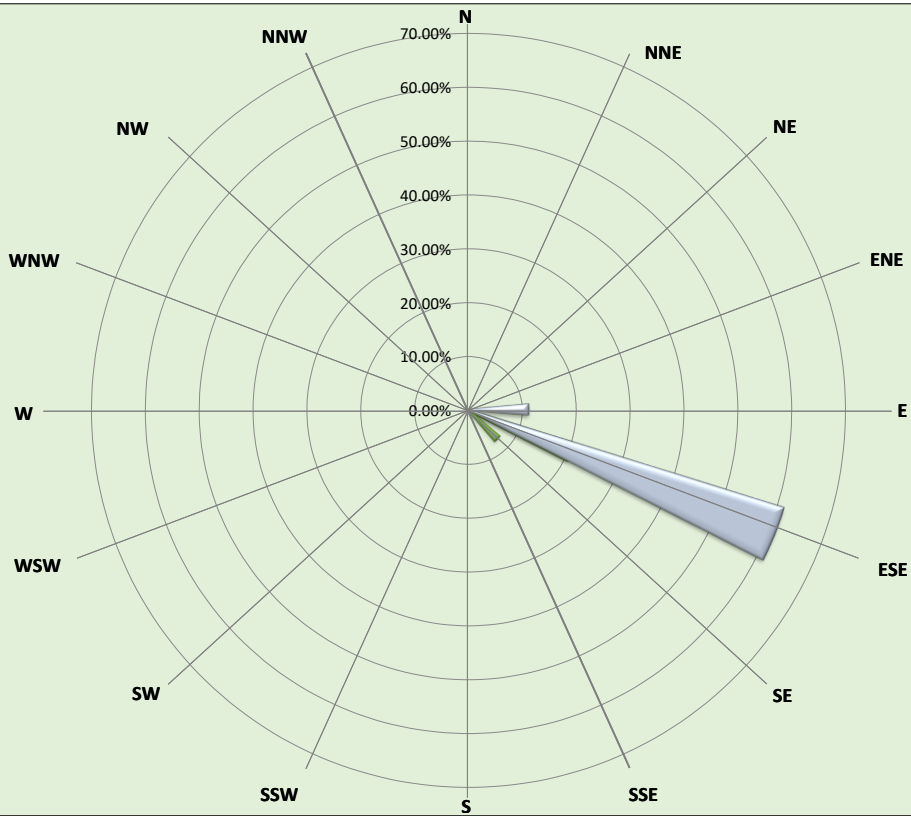
Station Location Area	Work	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1		0.0	0.1	11:50
PM-2		0.0	0.0	8:50
PM-3		0.0	0.0	8:55
PM-4		0.0	0.0	10:50
PM-5		0.1	0.3	12:09
PM-6		0.0	0.0	8:54



Air Monitoring Notes:

- Langan used a handheld Jerome[®] J505 mercury analyzer to monitor ambient air conditions within the work zone and throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.23 $\mu\text{g}/\text{m}^3$.
- Langan used a handheld photoionization detector (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.
- 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 from 12:27 pm to 12:45 pm at the conclusion of ground-intrusive activities.
- Mercury vapor concentrations at each CAMP station ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.08 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at 0.2 ppm.

Langan - 250 Water St Air
Monitoring
05/14/22
Wind Speed & Direction
Daily Readings



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



DAILY AIR MONITORING REPORT

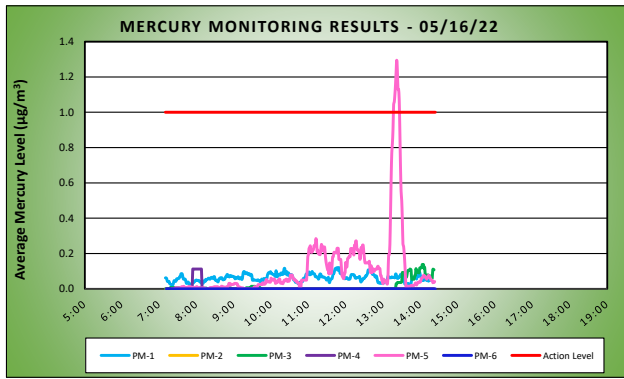
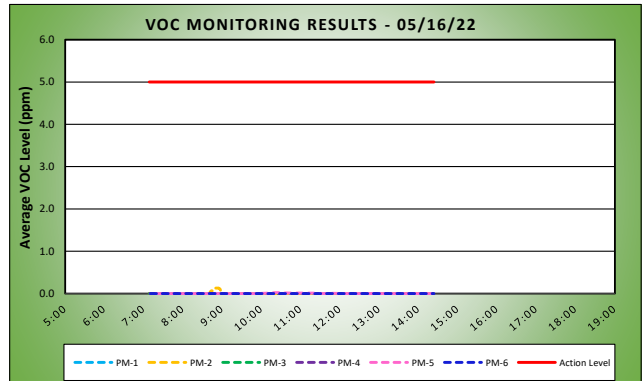
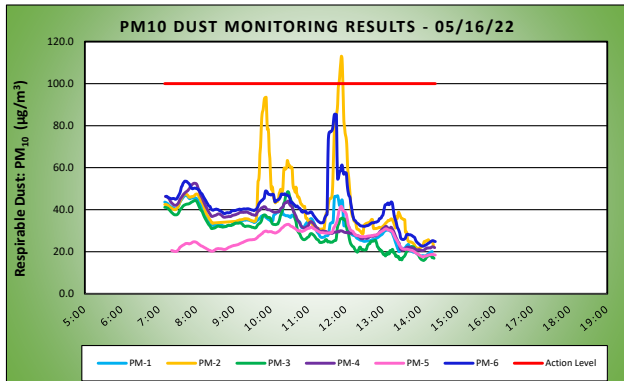
250 Water Street Remediation Site Manhattan, New York

05/16/22	
Project number: 170381202	
Page 1 of 2	
Submitted By: Lauren Roper, Elisah Boak	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	SSE	Relative Humidity (%)	52.0 - 84.0	Daily Rain (in)	0.05	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	63.0 - 78.0	Wind Speed (MPH)	1.7 - 5.7	Barometer (inHg)	29.60 - 29.70			

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		32.8	46.8	7:42	0.0	0.0	7:28
PM-2		42.1	113.1	11:53	0.0	0.1	8:46
PM-3		29.7	48.6	10:27	0.0	0.0	7:09
PM-4		34.3	52.6	7:56	0.0	0.0	7:10
PM-5		26.2	41.6	11:53	0.0	0.0	10:24
PM-6		41.0	85.4	11:42	0.0	0.0	7:11

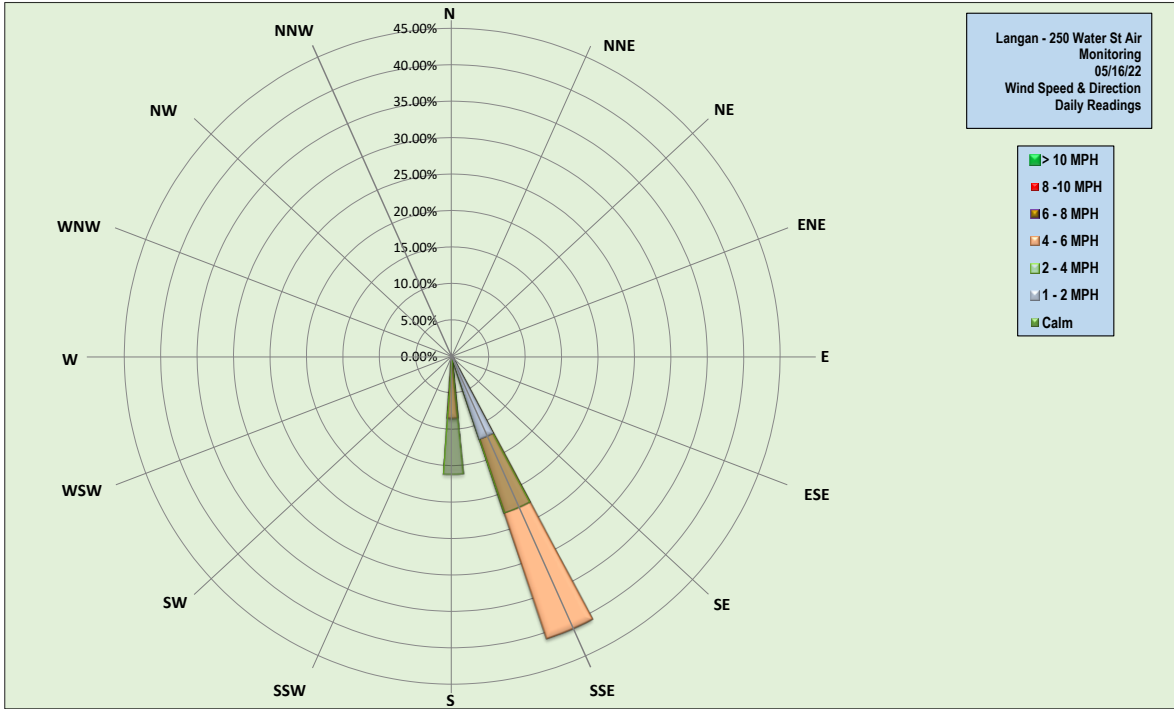
Station Location Area	Work	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1		0.1	0.1	11:49
PM-2		0.0	0.0	7:10
PM-3		0.0	0.1	14:03
PM-4		0.0	0.1	7:54
PM-5		0.1	1.3	13:22
PM-6		0.0	0.0	7:12



Air Monitoring Notes:

- *Particulate concentrations exceeded the action level established in the CAMP from 11:49am to 11:55am at perimeter station PM -2, located upwind of the work zone. During this time, CCJV was demobilizing a grout mixer and no ground-intrusive activities were ongoing at the site. Dust suppression measures (ie. spraying the ground surface with water) were implemented and PM10 concentrations returned to background conditions. Fugitive dust was not observed migrating from the site during this time.
- **Mercury vapor concentrations exceeded the action level established in the CAMP from 1:18pm to 1:26pm at perimeter station P M-5, located along Pearl Street. During this time, no ground-intrusive activities were ongoing at the site and CCJV was in the process of covering exposed soil/fill with polyethylenesheeting. No on-site source of mercury vapor was identified based on continuous screening with the Jerome J505 unit.
 - The 15-minute time-weighted-average concentrations of mercury vapor exceeding the action level ranged from 1.1 to 1.3 $\mu\text{g}/\text{m}^3$ and the exceedances were caused by instantaneous mercury vapor concentrations ranging from 0.0 $\mu\text{g}/\text{m}^3$ to 3.0 $\mu\text{g}/\text{m}^3$ between 1:08pm and 1:22pm.
 - Jerome® J505 mercury vapor analyzer concentrations ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.08 $\mu\text{g}/\text{m}^3$ during this time.
 - Based on the mercury vapor concentrations recorded from the Jerome® J405 unit within perimeter station PM -5 being inconsistent with all other observations from mercury vapor monitors on May 16, 2022 and on an evaluation of previous data from the unit, this unit is being replaced. The replacement unit is anticipated to arrive for use on Thursday, May 19, 2022.
- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions within the work zone and at various heights throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.31 $\mu\text{g}/\text{m}^3$.
- 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.
- Concentrations of PM10 were not recorded at perimeter station PM-2, which was located upwind of the work area, from 8:26am to 8:46am, due to a disconnected power cable. The power cable was reconnected and data logging resumed at 8:47am. Mercury vapor data was manually downloaded and concentrations during this time were recorded at 0.00 $\mu\text{g}/\text{m}^3$. VOC data was manually downloaded and concentrations during this time ranged from 0.0 ppm to 0.1 ppm.
 - Instantaneous mercury vapor concentrations recorded with the handheld Jerome® J505 mercury vapor analyzer at perimeter station PM-2 ranged from 0.05 $\mu\text{g}/\text{m}^3$ to 0.10 $\mu\text{g}/\text{m}^3$ during this time.
 - Fugitive dust was not observed migrating from the site 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 sequentially from 2:19pm to 2:26pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station ranged from 0.04 $\mu\text{g}/\text{m}^3$ to 0.10 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station were recorded at 0.0 ppm.







DAILY AIR MONITORING REPORT

250 Water Street Remediation Site

Manhattan, New York

05/17/22

Project number: 170381202

Page 1 of 2

Submitted By: Lauren Roper, Brian Kenneally

Rev. No. 0

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

100

VOC Action Level (ppm)

5

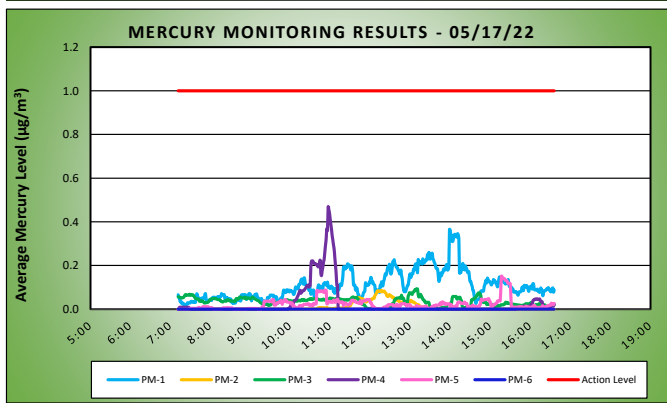
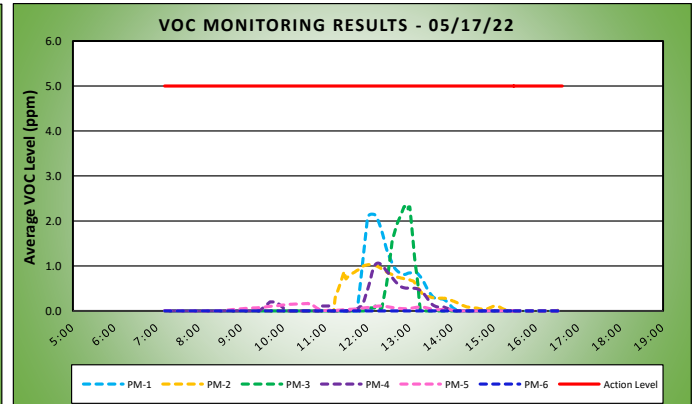
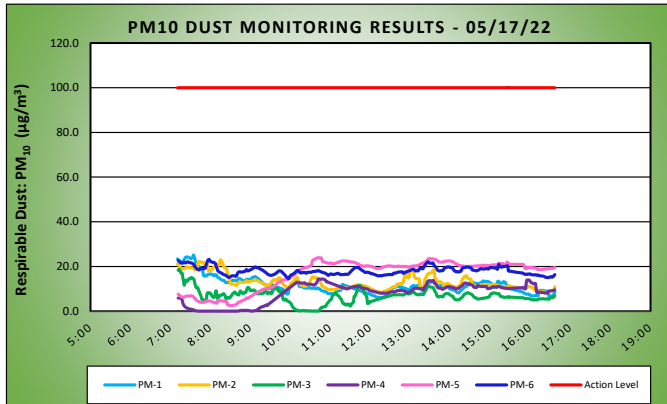
Hg Action Level ($\mu\text{g}/\text{m}^3$)

1.0

Weather Data Range for Work Day		Wind Direction	ESE, SE	Relative Humidity (%)	22.8 - 46.3	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	68.3 - 80.0	Wind Speed (MPH)	0.8 - 7.0	Barometer (inHg)	29.77 - 29.84			

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		11.8	25.1	7:35	0.2	2.2	12:06
PM-2		13.1	22.9	8:16	0.2	1.0	12:02
PM-3		6.9	18.7	7:13	0.1	2.3	12:52
PM-4		8.0	14.4	10:43	0.1	1.1	12:15
PM-5		16.5	23.9	10:42	0.0	0.2	10:37
PM-6		18.1	23.1	7:58	0.0	0.0	7:11

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		0.1	0.4	13:59
PM-2		0.0	0.1	12:17
PM-3		0.0	0.1	13:10
PM-4		0.0	0.5	10:57
PM-5		0.0	0.2	15:17
PM-6		0.0	0.0	7:12



Air Monitoring Notes:

- A spare handheld Jerome® J505 mercury analyzer was used at perimeter station PM-3 from 6:57am to 11:40am due to a damaged data cable during CAMP deployment. An additional dedicated field personnel was stationed with the J505. Mercury vapor data obtained from the spare Jerome® J505 was included in the Daily Air Monitoring Report and is reflected in the table above.
- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions within the work zone and throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.13 $\mu\text{g}/\text{m}^3$.
- 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.
- Work was halted temporarily to perform equipment maintenance on the CAMP stations for time frames up to 25 minutes at a time. During maintenance at each station, concentrations of PM10, VOCs, and mercury vapor were intermittently not transmitted through the telemetry system. The mercury vapor and VOC data from these intermittent gaps were manually downloaded from each unit and are reflected in the Daily Air Monitoring Report and the table above.
- Perimeter CAMP stations were brought offline, one at a time, to perform the maintenance and the proximity of each station was screened by the dedicated CAMP monitor using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID.
 - Instantaneous concentrations of mercury vapor detected with the Jerome® J505 unit ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.10 $\mu\text{g}/\text{m}^3$ across all perimeter CAMP stations.
 - Instantaneous VOC concentrations detected with the handheld PID were recorded at 0.0 ppm across all perimeter CAMP stations.
- Fugitive dust and odors were not observed migrating from the site at any time throughout the work day.
- 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 4:38pm at the conclusion of ground-intrusive activities.
- Mercury vapor concentrations at each CAMP station was recorded at 0.00 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.

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

05/18/22

Project number: 170381202

Page 1 of 2

Submitted By: Lauren Roper, Brian Kenneally

Rev. No. 0

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

100

VOC Action Level (ppm)

5

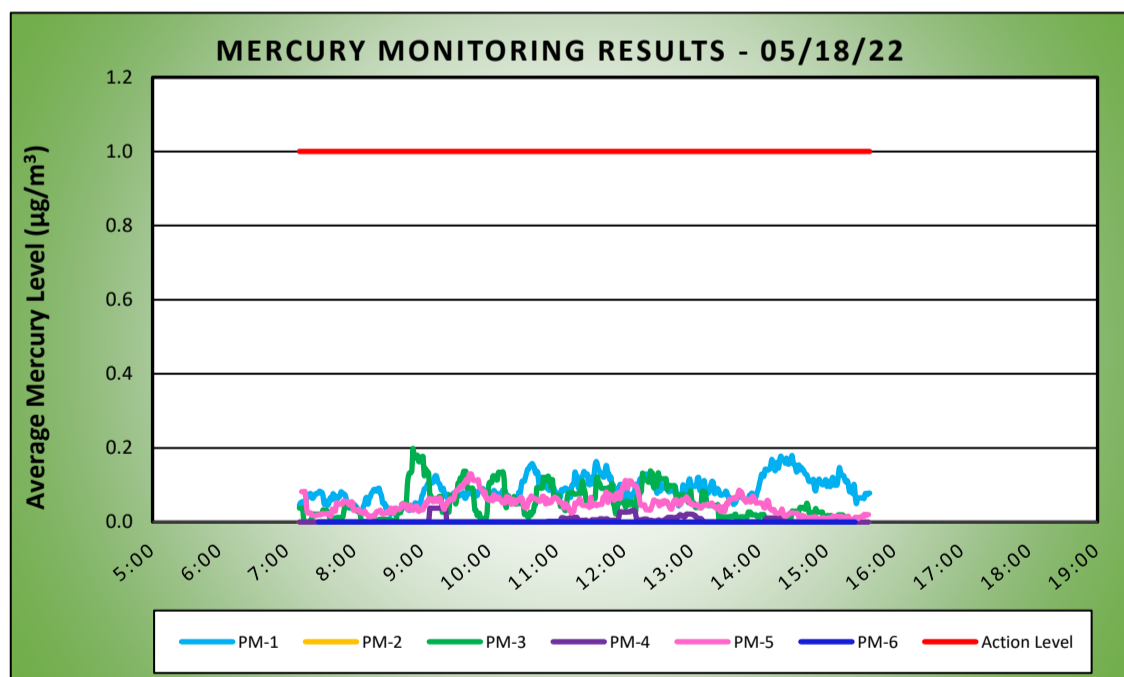
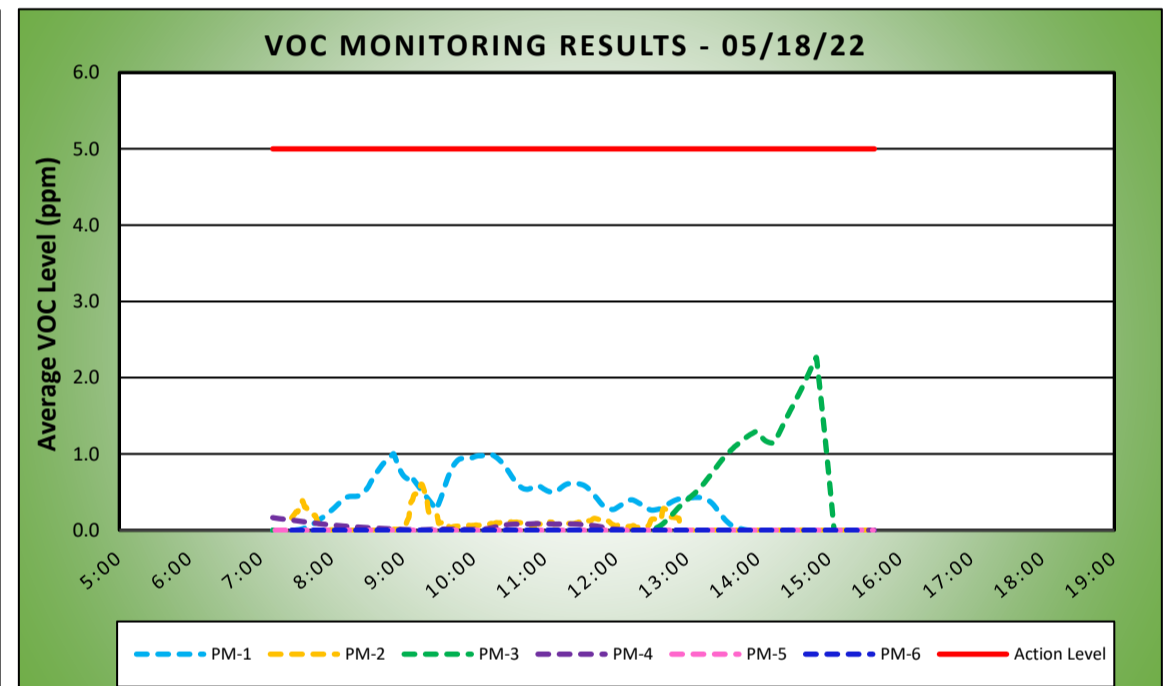
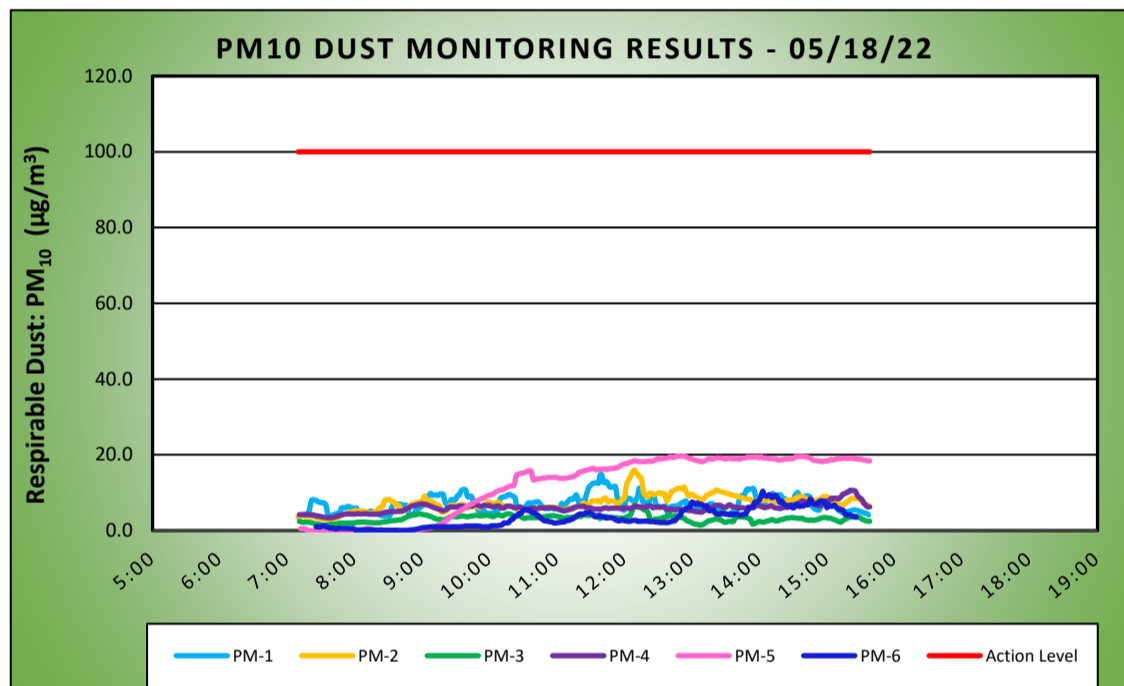
Hg Action Level ($\mu\text{g}/\text{m}^3$)

1.0

Weather Data Range for Work Day		Wind Direction	NW	Relative Humidity (%)	23.0 - 51.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	55.0 - 73.0	Wind Speed (MPH)	3.9 - 6.0	Barometer (inHg)	29.90 - 30.00			

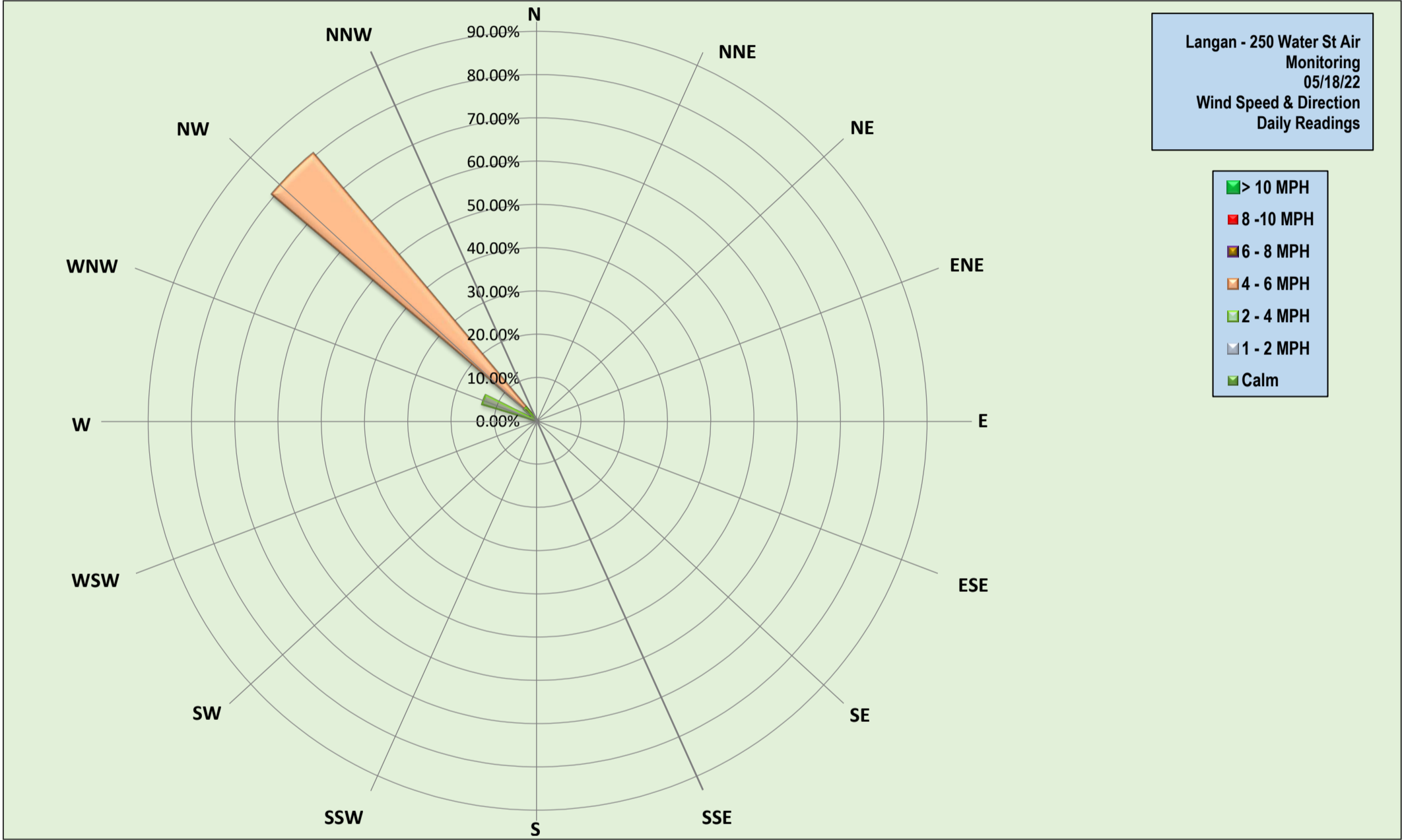
Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	Time of Maximum 15 Minute Avg Dust Reading	Daily Avg. VOC Concentration (ppm)	Max 15 Minute VOC Concentration (ppm)	Time of Max 15 Minute Avg VOC Reading
PM-1	7.0	14.9	11:39	0.4	1.0	8:52
PM-2	7.2	16.0	12:09	0.1	0.6	9:15
PM-3	3.1	6.5	12:09	0.3	2.3	14:49
PM-4	6.0	10.7	15:21	0.0	0.2	7:10
PM-5	12.0	19.7	12:48	0.0	0.0	7:12
PM-6	3.3	10.4	14:03	0.0	0.0	7:26

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	0.1	0.2	14:29
PM-2	0.0	0.0	7:11
PM-3	0.1	0.2	8:52
PM-4	0.0	0.0	9:07
PM-5	0.0	0.1	9:42
PM-6	0.0	0.0	7:28



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 $\mu\text{g}/\text{m}^3$ to 0.31 $\mu\text{g}/\text{m}^3$.
 - One instantaneous mercury vapor concentration was detected using the handheld Jerome® J505 mercury vapor analyzer throughout the site at 1.89 $\mu\text{g}/\text{m}^3$ at 11:59am. The instantaneous concentration was the only reading recorded above the action levels and did not result in a 15-minute time-weighted-average above the action level established in the CAMP. During this time, CCJV was installing sheet piles in the southwestern portion of the site, however, the mercury vapor concentration recorded with the Jerome® J505 unit within the work zone was 0.00 $\mu\text{g}/\text{m}^3$. No on-site source of mercury vapor was identified.
 - Instantaneous mercury vapor concentrations within the work zone ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.05 $\mu\text{g}/\text{m}^3$.
- 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.
- Perimeter air monitoring station PM-2 was relocated to the southern sidewalk of Water Street from 1:24pm to 3:37pm during installation of steel sheet piles in the southwestern portion of the site.
 - Instantaneous mercury vapor concentrations recorded with the Jerome® J505 mercury vapor analyzer between the work zone and perimeter CAMP station PM-2 ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.11 $\mu\text{g}/\text{m}^3$.
- 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 3:22pm to 3:38pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station were recorded ranging from 0.00 $\mu\text{g}/\text{m}^3$ to 0.01 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station were recorded at 0.0 ppm.





DAILY AIR MONITORING REPORT

250 Water Street Remediation Site

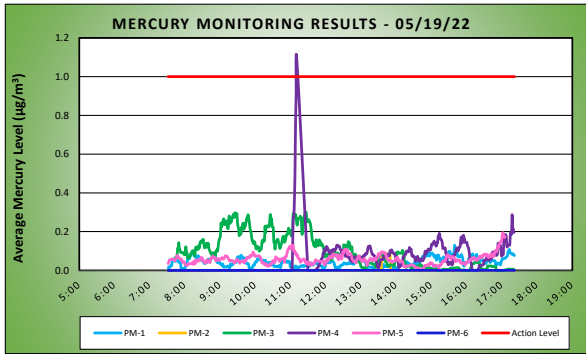
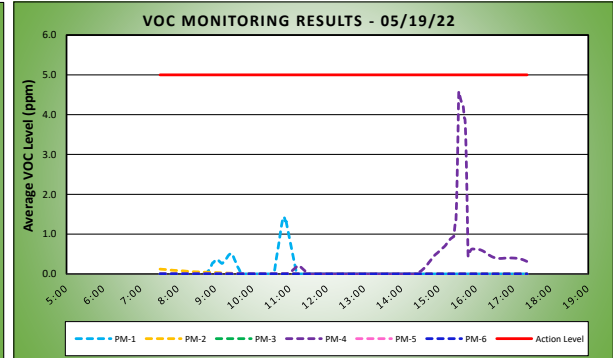
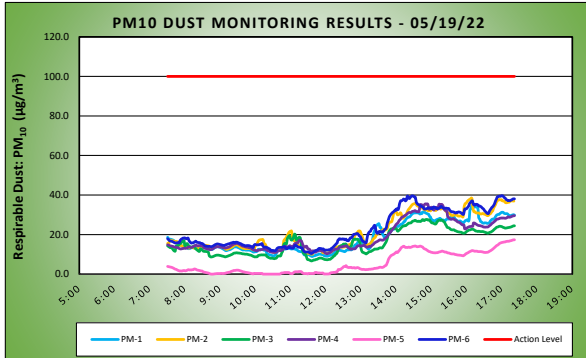
Manhattan, New York

05/19/22	
Project number: 170381202	
Page 1 of 2	
Submitted By: Lauren Roper, Brian Kenneally	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 (%)	63.6 - 82.6	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	55.7 - 65.1	Wind Speed (MPH)	0.6 - 6.1	Barometer (inHg)	29.77 - 29.86			

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	18.9	34.8	16:10	0.1	1.4	10:50
PM-2	21.3	38.5	16:09	0.0	0.1	7:31
PM-3	16.2	27.7	14:53	0.0	0.0	7:31
PM-4	19.0	35.5	14:51	0.2	4.6	15:32
PM-5	5.5	17.4	17:21	0.0	0.0	12:44
PM-6	22.6	39.7	17:00	0.0	0.0	7:31

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	15:40
PM-2	0.0	0.1	13:36
PM-3	0.1	0.3	11:27
PM-4	0.1	1.1	11:11
PM-5	0.1	0.2	17:02
PM-6	0.0	0.0	7:32



Air Monitoring Notes:

- *One Mercury vapor concentration exceeded the action level established in the CAMP at 11:11am at perimeter station PM-4, which was located over 200 feet from the work area along Peck Slip. During this time, no ground-intrusive activities were ongoing at the site and work zone and handheld mercury vapor readings ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.02 $\mu\text{g}/\text{m}^3$.
 - Work was immediately halted and Mercon-X[®] was applied to the exposed soil/fill as a proactive measure.
 - A "warm-up" function was run on the Jerome[®] J405 mercury vapor analyzer at 11:12 am, and the unit was replaced at 11:44am after identification of water damage to the unit. Instantaneous mercury vapor concentrations were collected at perimeter station PM-4 using the handheld Jerome[®] J505 mercury vapor analyzer during equipment troubleshooting and replacement from 11:05am to 11:43am and mercury vapor concentrations ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.02 $\mu\text{g}/\text{m}^3$.
 - Instantaneous mercury vapor concentrations collected within the work zone using a Jerome[®] J505 mercury vapor analyzer ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.08 $\mu\text{g}/\text{m}^3$ between 11:11am and 11:43am.
- 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 $\mu\text{g}/\text{m}^3$ to 0.05 $\mu\text{g}/\text{m}^3$.
 - Instantaneous mercury vapor concentrations within the work zone ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 3.60 $\mu\text{g}/\text{m}^3$ at 4:06pm. During this time, CCIV was torch-cutting a previously installed foundation pile in the southwestern portion of the site. The instantaneous mercury vapor concentration did not result in a 15-minute time-weighted-average exceedance, however, work was immediately halted to identify a potential source. No site source was identified, however, CCIV applied Mercon-X[®] on the exposed soil/fill as a proactive measure.
 - After resuming work, a correlation was identified between torch-cutting and elevated mercury vapor concentrations. Work was halted in two additional instances due to elevated mercury vapor concentrations during torch-cutting activities and Mercon-X[®] was applied in each instance.
 - Per the manufacturer of the Jerome[®] J505 mercury vapor analyzer (AMETEK, Inc.), the compound acetone can cause an interference with the unit, resulting in false positive mercury vapor readings. CCIV confirmed that acetylene gas, which is used for torch-cutting and welding activities, is dissolved in acetone to stabilize the gas prior to use. According to the Material Safety Data Sheet (MSDS) for the acetylene gas, acetone vapor is released during operation of the torch. In coordination with NYSEDEC and the New York State Department of Health (NYSDOH), the elevated mercury vapor concentrations were attributed to torch-cutting activities and were determined to not be the result of mercury vapor in the ambient air.
- 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.
- Upon request by the NYSEDEC, a work zone CAMP station was mobilized to the site.
 - VOC concentrations were not recorded at the work zone CAMP station from 7:37am to 9:26am during equipment mobilization.
 - PM10 concentrations were not recorded at the work zone CAMP station from 7:37am to 11:51am during equipment mobilization.
- 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 5:22pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station were recorded ranging from 0.00 $\mu\text{g}/\text{m}^3$ to 0.11 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station were recorded at 0.0 ppm.



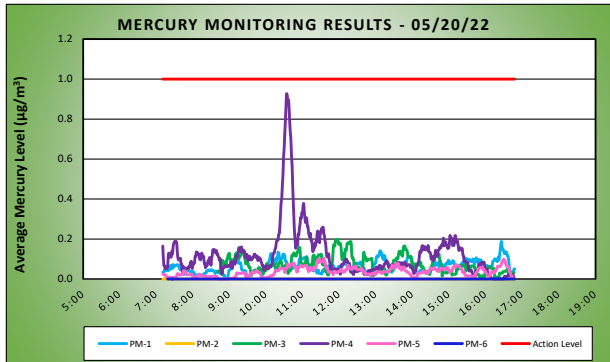
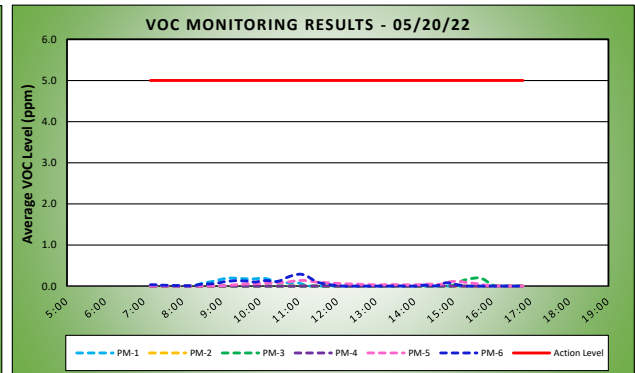
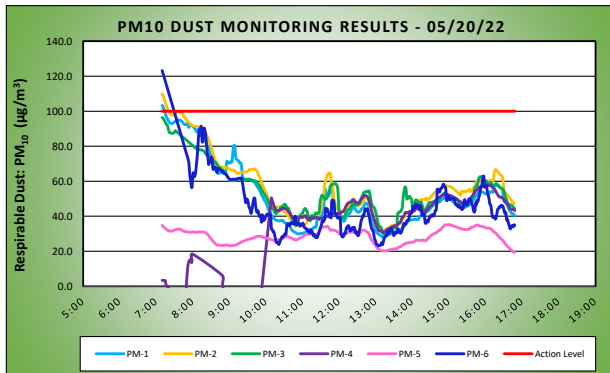
DAILY AIR MONITORING REPORT
250 Water Street Remediation Site
Manhattan, New York

05/20/22	
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	SSW	Relative Humidity (%)	56.1 - 83.5	Daily Rain (in)	0.01	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	57.7 - 71.4	Wind Speed (MPH)	0.5 - 8.3	Barometer (inHg)	30.01 - 30.05			

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	52.7	*103.4	7:10	0.0	0.2	9:16
PM-2	57.8	*109.9	7:10	0.0	0.0	7:10
PM-3	54.0	96.4	7:10	0.0	0.2	15:37
PM-4	32.6	57.8	16:02	0.0	0.0	7:10
PM-5	28.6	35.2	15:01	0.0	0.1	11:06
PM-6	51.6	*123.2	7:10	0.1	0.3	11:02

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	0.1	0.2	16:26
PM-2	0.0	0.0	7:11
PM-3	0.1	0.2	11:56
PM-4	0.1	**0.9	10:34
PM-5	0.0	0.1	11:35
PM-6	0.0	0.0	7:19



Air Monitoring Notes:

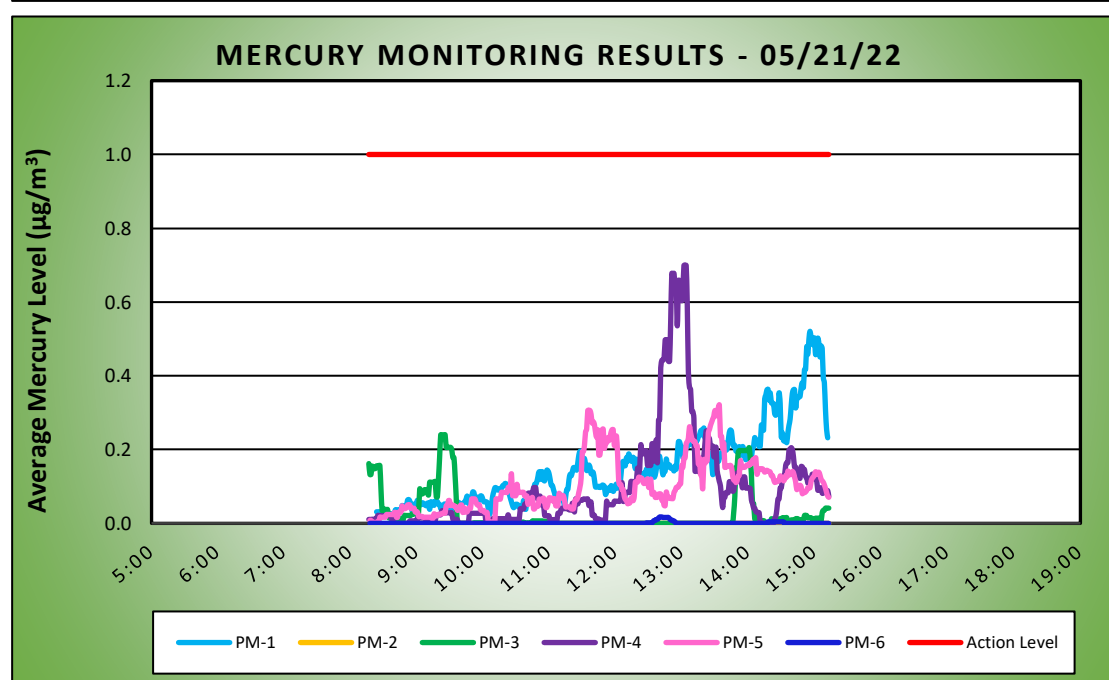
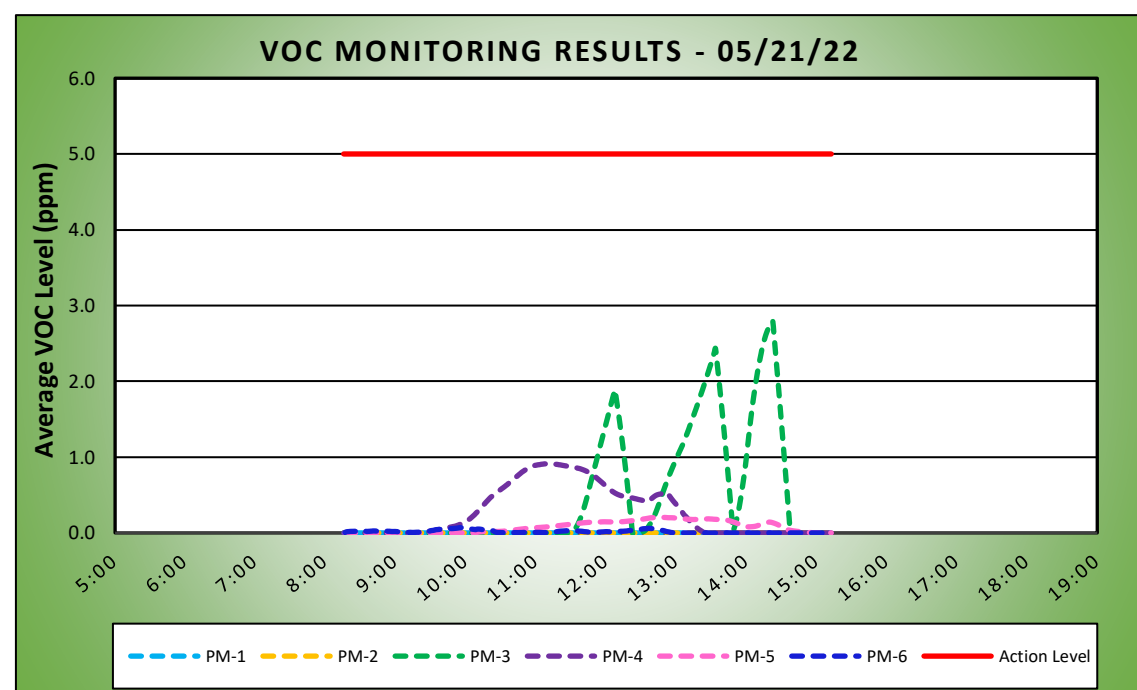
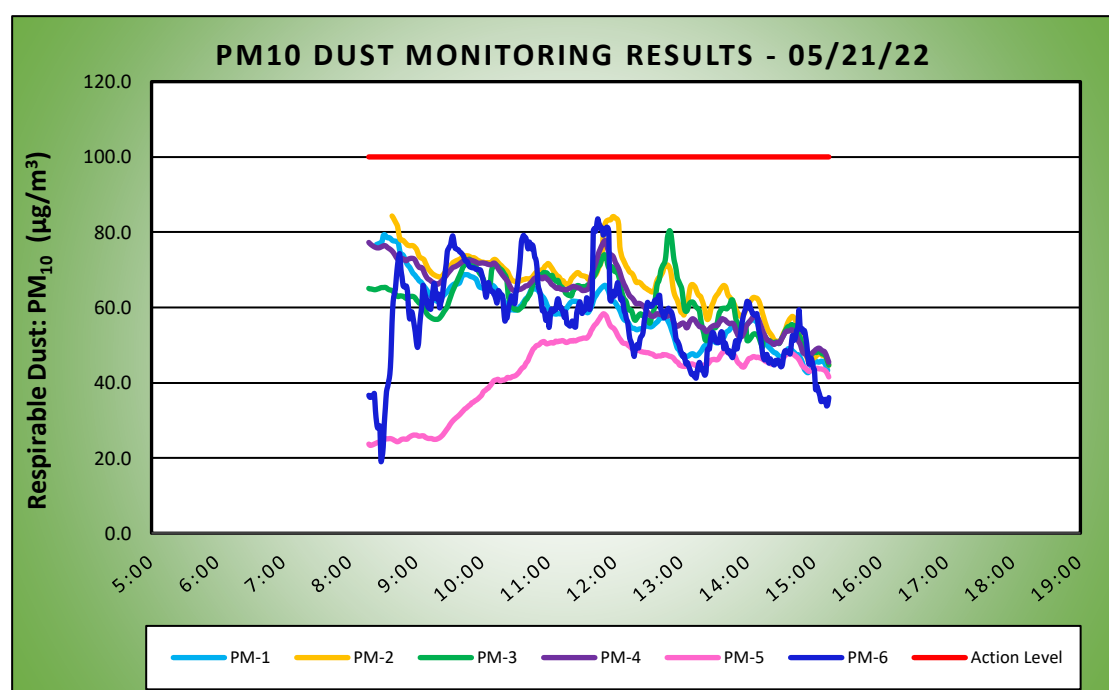
- *Particulate concentrations exceeded the action level established in the CAMP from 7:10am to 7:20am at perimeter CAMP stations PM-1, PM-2, and PM-6, upon starting community air monitoring for the day. Elevated background concentrations of PM10 were attributed to poor air quality in New York City, which was listed as "Moderate" to "Unhealthy for Sensitive Groups" in the air quality index (AQI). Maintenance was performed on all perimeter air monitoring stations and site work did not begin until about 8:35am, when background concentrations returned below the action level.
- **Instantaneous mercury vapor concentrations were recorded at concentrations ranging from 0.7 $\mu\text{g}/\text{m}^3$ to 1.3 $\mu\text{g}/\text{m}^3$ at perimeter CAMP station PM-4, which was located over 200 feet away from the work area along Peck Slip, from 10:24am to 10:34am. During this time, no ground-intrusive activities were ongoing at the site, however, work was immediately halted and Mercon-X® was sprayed on exposed soil/fill in the southwestern portion of the site as a proactive measure. The instantaneous mercury vapor concentrations did not result in a 15-minute time-weighted average exceedance of the CAMP action levels and the dedicated CAMP monitor investigated the elevated mercury vapor readings upon notification via the remote telemetry system.
 - The elevated readings were determined to be erroneous and caused by pinched tubing connected to the Jerome® J405 mercury vapor analyzer within the perimeter CAMP station. The dedicated CAMP monitor removed the tubing and reconnected it to the Jerome® J405 mercury vapor analyzer and mercury vapor concentrations returned to background conditions prior to resuming work.
 - Instantaneous mercury vapor concentrations were recorded at perimeter station PM-4 using the handheld Jerome® J505 mercury vapor analyzer during equipment troubleshooting and concentrations ranged from 0.04 $\mu\text{g}/\text{m}^3$ to 0.11 $\mu\text{g}/\text{m}^3$ between 10:35am to 10:44am.
 - Instantaneous mercury vapor concentrations within the work zone ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.01 $\mu\text{g}/\text{m}^3$ between 10:24am and 10:44am.
- 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 $\mu\text{g}/\text{m}^3$ to 0.59 $\mu\text{g}/\text{m}^3$, with the exception of two instantaneous readings discussed below.
 - Two instantaneous mercury vapor concentrations were recorded at 10.75 $\mu\text{g}/\text{m}^3$ (at 11:34am) and at 1.93 $\mu\text{g}/\text{m}^3$ (at 12:36pm) while CCIV was using acetylene gas to weld steel walers to the previously installed sheet pile wall. In coordination with NYSDEC (on site), each instance was the result of direct screening of the fumes generated by welding activities to confirm interference with the handheld Jerome® J505 unit.
 - Instantaneous mercury vapor concentrations within the work zone ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.05 $\mu\text{g}/\text{m}^3$.
- 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 unit within perimeter CAMP station PM-4 was recalibrated at 9:52am due to negative PM10 concentrations being recorded. Data logging resumed at 9:54am and readings returned to normal conditions.
- Perimeter air monitoring station PM-2 was relocated to the southern sidewalk of Water Street from 6:55am to 4:47pm.
- A dedicated CAMP monitor was stationed with the work zone air monitoring station, which was located between the work zone and perimeter CAMP station PM-2 (across from Water Street), to monitor the units for potential exceedances of the action levels established in the CAMP.
 - PM10, VOCs and mercury vapor concentrations did not exceed the action level established in the CAMP.
 - The work zone station was located upwind from the work area.
 - Elevated concentrations of PM10, VOCs and mercury vapor were not observed at perimeter CAMP station PM-2, which was located across Water Street, during ground-intrusive activities.
 - Fugitive dust or odors were not observed to be migrating off-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. CAMP stations were discontinued at 4:47pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station were recorded ranging from 0.00 $\mu\text{g}/\text{m}^3$ to 0.04 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station were recorded at 0.0 ppm.

	DAILY AIR MONITORING REPORT		05/21/22	
	250 Water Street Remediation Site			
	Manhattan, New York			
			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	SW	Relative Humidity (%)	39.6 - 87.1	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	64.5 - 90.6	Wind Speed (MPH)	0.4 - 5.4	Barometer (inHg)	30.06 - 30.11			

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	58.6	79.4	8:31	0.0	0.0	8:23
PM-2	66.2	84.3	8:38	0.0	0.0	8:37
PM-3	61.3	80.4	12:49	0.5	2.8	14:23
PM-4	63.1	77.8	11:51	0.3	0.9	11:10
PM-5	42.0	58.3	11:49	0.1	0.2	12:49
PM-6	56.6	83.6	11:44	0.0	0.1	9:57

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	0.1	0.5	14:56
PM-2	0.0	0.0	8:38
PM-3	0.0	** 0.2	9:22
PM-4	0.1	0.7	13:02
PM-5	0.1	** 0.3	13:34
PM-6	0.0	0.0	12:40



Air Monitoring Notes:

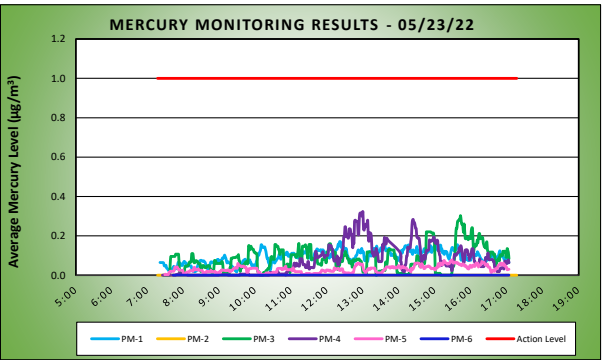
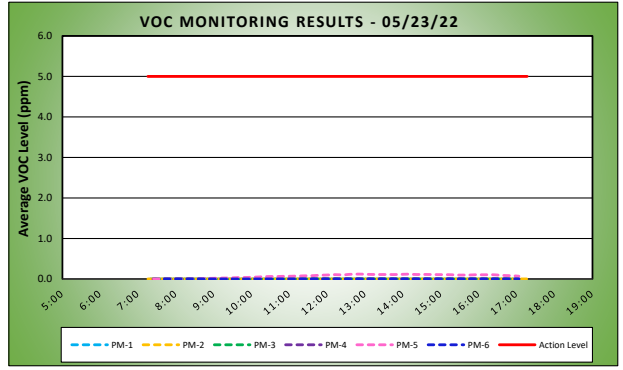
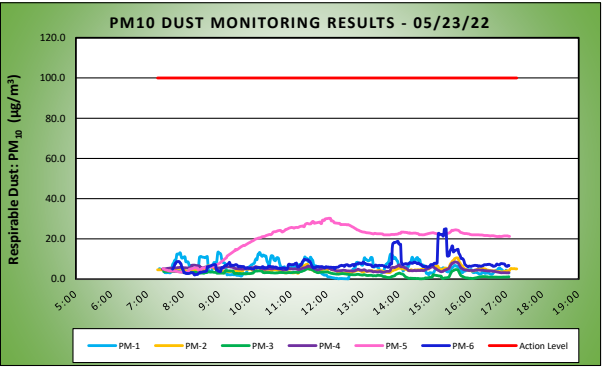
- *Elevated concentrations of PM10 were generally observed throughout the work day and were attributed to poor air quality in New York City (listed as "Moderate" in the air quality index [AQI]). Work zone action levels are not included in the site CAMP, however, particulate concentrations exceeded the perimeter thresholds from 11:29am to 11:30am, 11:55am to 12:03pm, 12:32pm to 12:45pm and 2:46pm to 2:52pm during welding of steel walers to the interior of the steel sheet pile wall.
 - Work was temporarily halted in each instance and dust suppression was implemented by spraying exposed soil/fill with municipally supplied water.
 - CAMP PM10 action levels were not exceeded at the off-site PM-2 station throughout the work day.
 - No fugitive dust was observed to be leaving the site.
- Instantaneous mercury vapor concentrations were recorded at concentrations ranging from 0.1 $\mu\text{g}/\text{m}^3$ to 2.7 $\mu\text{g}/\text{m}^3$ at perimeter CAMP station PM-4 (between 12:37pm to 12:51pm), which was located over 150 feet away from the work area along Peck Slip. During this time, no ground-intrusive activities were ongoing at the site, however, work was halted at 1:05pm, Mercon-X[®] was sprayed on exposed soil/fill and the work area was temporarily covered with polyethylene sheeting. The instantaneous mercury vapor concentrations did not result in a 15-minute time-weighted average exceedance of the CAMP action levels and the dedicated CAMP monitor investigated the elevated mercury vapor readings upon notification via the remote telemetry system.
 - The instantaneous mercury vapor concentrations were confirmed to be false positive readings with the Jerome[®] J505 unit (0.0 $\mu\text{g}/\text{m}^3$).
 - A "warm-up" function was run at 1:05pm on the Jerome[®] J405 unit within perimeter CAMP station PM-4 and readings returned to background conditions.
 - Work resumed at 1:10pm, after confirmation that the Jerome[®] J405 unit was operating and transmitting data to the remote telemetry system.
- **Instantaneous mercury vapor concentrations were recorded at concentrations ranging from 0.1 $\mu\text{g}/\text{m}^3$ to 1.2 $\mu\text{g}/\text{m}^3$ at perimeter CAMP station PM-3 (between 1:47pm and 1:52pm) and from 0.6 $\mu\text{g}/\text{m}^3$ to 1.3 $\mu\text{g}/\text{m}^3$ at perimeter CAMP station PM-5 (between 1:16pm and 1:24pm), which were located over 100 feet away from the work area along Water Street and Pearl Street, respectively. During this time, no ground-intrusive activities were ongoing at the site, however, work was halted, Mercon-X[®] was sprayed on exposed soil/fill and the work area was temporarily covered with polyethylene sheeting. The instantaneous mercury vapor concentrations did not result in a 15-minute time-weighted average exceedance of the CAMP action levels and the dedicated CAMP monitor investigated the elevated mercury vapor readings upon notification via the remote telemetry system.
 - The Jerome[®] J405 mercury vapor analyzer within perimeter CAMP station PM-3 was disconnected and allowed to cool down from 1:53pm to 2:16pm. During this time, the handheld Jerome[®] J505 unit was stationed at perimeter station PM-3 and mercury vapor concentrations ranged from 0.0 $\mu\text{g}/\text{m}^3$ to 0.1 $\mu\text{g}/\text{m}^3$. The Jerome[®] J405 unit was reconnected and resumed data logging at 2:17pm.
 - The Jerome[®] J405 mercury vapor analyzer within perimeter CAMP station PM-5 was disconnected and allowed to cool down from 1:25pm to 2:20pm. During this time, the work zone Jerome[®] J505 unit was stationed at perimeter station PM-5 and mercury vapor concentrations ranged from 0.0 $\mu\text{g}/\text{m}^3$ to 0.8 $\mu\text{g}/\text{m}^3$. The Jerome[®] J405 unit was reconnected and resumed data logging at 2:21pm.
 - The work zone Jerome[®] J505 mercury vapor analyzer was observed to be recording consistently higher readings than the handheld unit and is anticipated to be replaced on Tuesday, May 24, 2022. The instantaneous reading of 0.8 $\mu\text{g}/\text{m}^3$ was recorded during a one-minute sampling interval and did not result in a 15-minute time-weighted average exceedance of the CAMP action level.
 - Work resumed at approximately 2:33pm, when mercury vapor concentrations were confirmed to return to background conditions.
- 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 $\mu\text{g}/\text{m}^3$ to 0.05 $\mu\text{g}/\text{m}^3$.
 - Instantaneous mercury vapor concentrations within the work zone ranged from 0.0 $\mu\text{g}/\text{m}^3$ to 2.5 $\mu\text{g}/\text{m}^3$.
 - Intermittent instantaneous mercury vapor readings were recorded at concentrations ranging from 0.8 and 2.5 $\mu\text{g}/\text{m}^3$ during torch-cutting and welding activities using acetylene gas.
 - The intermittent instantaneous mercury vapor readings did not result in a 15-minute time-weighted average exceedance of the CAMP action level.
- 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 PID unit within perimeter CAMP station PM-3 was recalibrated at 1:35pm and 2:23pm due to elevated VOC readings while the handheld unit and other perimeter stations were recording concentrations ranging from 0.0 ppm to 0.2 ppm. VOC concentrations returned to background conditions after recalibration in each instance.
 - Perimeter air monitoring station PM-2 was relocated to the southern sidewalk of Water Street from 8:22am to 3:12pm.
 - 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 3:12pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station were recorded at 0.00 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station were recorded at 0.0 ppm.

	DAILY AIR MONITORING REPORT 250 Water Street Remediation Site Manhattan, New York		05/23/22		
			Project number: 170381202		
			Page 1 of 2		
			Submitted By: Lauren Roper, 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	NE	Relative Humidity (%)	21.5 - 53.7	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	62.4 - 76.2	Wind Speed (MPH)	1.2 - 7.3	Barometer (inHg)	30.22 - 30.28			

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		6.0	13.5	8:58	0.0	0.0	7:20
PM-2		4.6	10.6	15:36	0.0	0.0	7:16
PM-3		2.5	5.3	11:28	0.0	0.0	7:26
PM-4		5.0	8.6	15:35	0.0	0.0	7:24
PM-5		19.6	30.3	12:03	0.1	0.1	12:45
PM-6		7.5	25.1	15:19	0.0	0.0	7:42

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		0.1	0.2	12:22
PM-2		0.0	0.0	7:17
PM-3		0.1	0.3	15:43
PM-4		0.1	0.3	13:00
PM-5		0.0	0.1	15:28
PM-6		0.0	0.0	7:43



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 $\mu\text{g}/\text{m}^3$ to 0.04 $\mu\text{g}/\text{m}^3$.
 - Instantaneous mercury vapor concentrations within the work zone ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.10 $\mu\text{g}/\text{m}^3$.
- 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.
 - Instantaneous mercury vapor concentrations were recorded at concentrations ranging from 0.1 $\mu\text{g}/\text{m}^3$ to 1.8 $\mu\text{g}/\text{m}^3$ at perimeter CAMP station PM-3 (between 2:40pm and 2:55pm), which was located over 100 feet away and upwind from the work area along Water Street. During this time, no ground-intrusive activities were ongoing at the site and CCJV was welding a steel waler to the interior of the previously installed sheet pile wall in the southwestern portion of the site. The instantaneous mercury vapor concentrations did not result in a 15 minute time-weighted average exceedance of the CAMP action level and mercury vapor concentrations at the work zone during this time ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.06 $\mu\text{g}/\text{m}^3$, however, the dedicated CAMP monitor investigated the elevated mercury vapor readings upon notification via the remote telemetry system.
 - Instantaneous mercury vapor concentrations were collected at perimeter station PM-3 using the handheld Jerome® J505 mercury vapor analyzer during equipment troubleshooting from 2:56pm to 3:28pm and mercury vapor concentrations were recorded at 0.0 $\mu\text{g}/\text{m}^3$.
 - A 'warm-up' function was run on the Jerome® J405 mercury vapor analyzer at 2:56pm and the unit was disconnected and allowed to cool down from 3:01pm to 3:20pm.
 - Data logging using the Jerome® J405 mercury vapor analyzer resumed at 3:29pm.
 - Perimeter air monitoring station PM-2 was relocated to the southern sidewalk of Water Street from 7:02am to 5:17pm.
 - A dedicated CAMP monitor was stationed with the work zone air monitoring station, which was located between the work zone and perimeter CAMP station PM-2 (across from Water Street), to monitor the units for potential exceedances of the action levels established in the CAMP.
 - PM10, VOCs and mercury vapor concentrations did not exceed the action level established in the CAMP.
 - Elevated concentrations of PM10, VOCs and mercury vapor were not observed at perimeter CAMP station PM-2, which was located across Water Street.
 - Fugitive dust or odors were not observed to be migrating off-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 using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued sequentially from 5:04pm to 5:17pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station were recorded at 0.00 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station were recorded at 0.0 ppm.

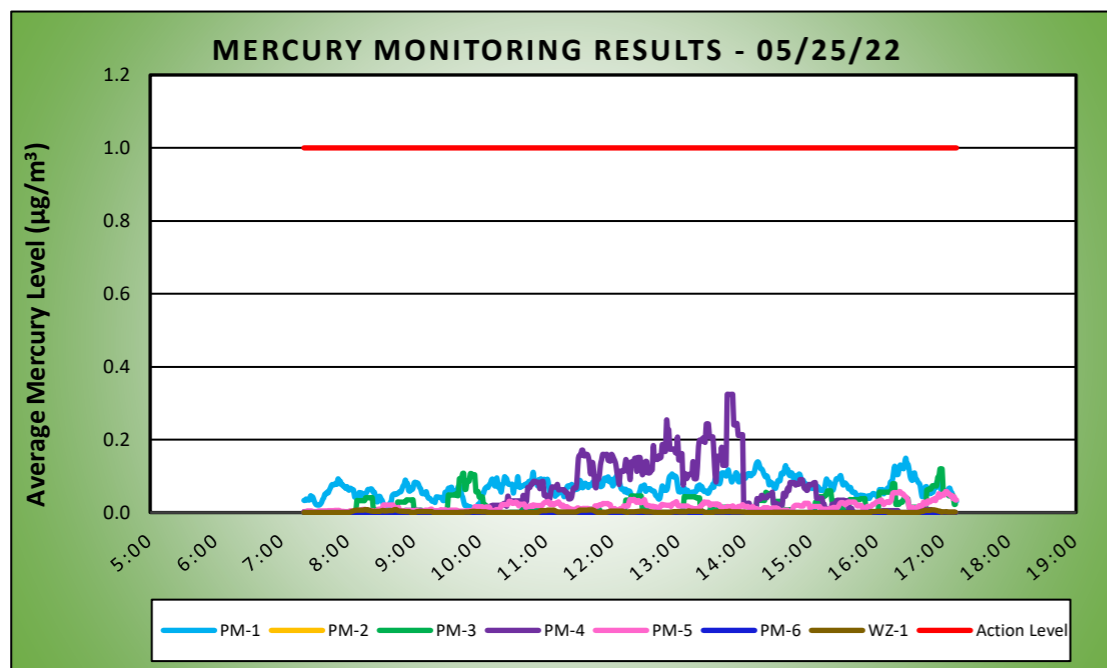
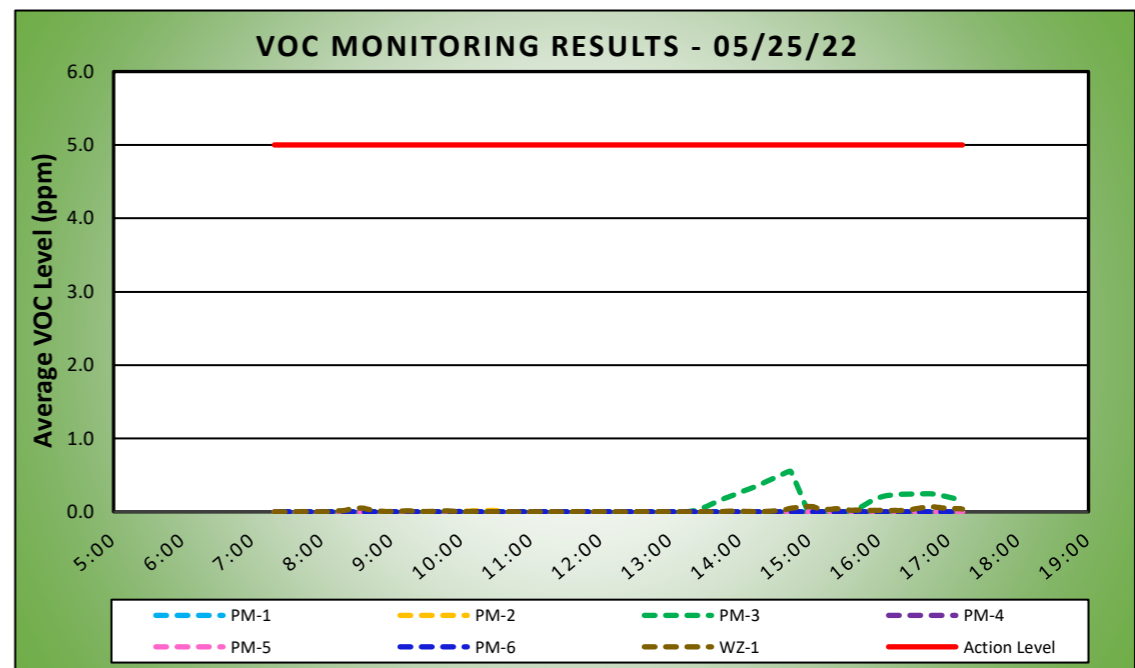
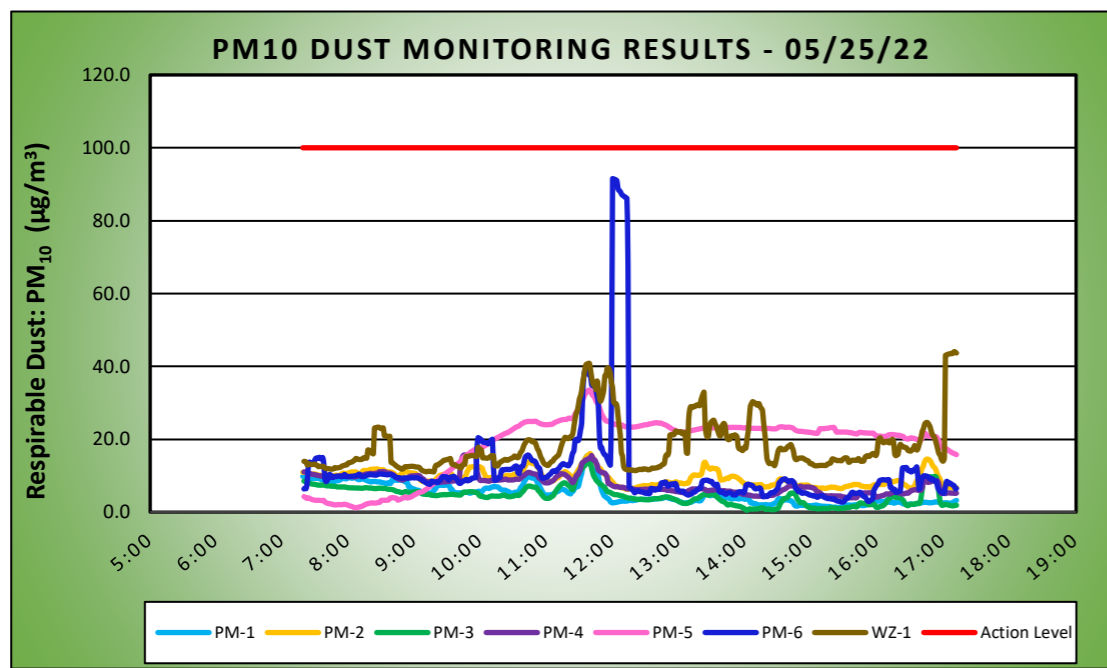


	DAILY AIR MONITORING REPORT 250 Water Street Remediation Site Manhattan, New York				05/25/22	
					Project number: 170381202	
					Page 1 of 2	
					Submitted By: Lauren Roper, Brian Kenneally	
					Rev. No. 0	
				Dust Action Level ($\mu\text{g}/\text{m}^3$)		100
				VOC Action Level (ppm)		5
				Hg Action Level ($\mu\text{g}/\text{m}^3$)		1.0

Weather Data Range for Work Day		Wind Direction	SW	Relative Humidity (%)	36.1 - 51.6	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	60.4 - 69.6	Wind Speed (MPH)	0.8 - 6.7	Barometer (inHg)	30.44 - 30.48			

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	5.1	15.5	11:37	0.0	0.0	7:23
PM-2	9.4	16.0	11:40	0.0	0.0	10:27
PM-3	4.5	13.9	11:39	0.1	0.6	14:43
PM-4	7.8	15.8	9:52	0.0	0.0	7:19
PM-5	18.1	33.6	11:39	0.0	0.0	7:19
PM-6	11.4	91.5	12:00	0.0	0.0	9:57
WZ-1	18.4	44.1	N/A	0.0	0.1	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	0.1	0.1	16:26
PM-2	0.0	0.0	7:20
PM-3	0.0	0.1	16:57
PM-4	0.1	0.3	13:44
PM-5	0.0	0.1	17:03
PM-6	0.0	0.0	7:20
WZ-1	0.0	0.0	N/A



Air Monitoring Notes:

- Langan used two handheld Jerome® J505 mercury analyzers to monitor ambient air conditions at various heights throughout the site and within the work zone.
 - Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.06 $\mu\text{g}/\text{m}^3$.
 - Instantaneous mercury vapor concentrations within the work zone ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.04 $\mu\text{g}/\text{m}^3$.
- 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 Jerome® J405 mercury vapor analyzer at perimeter CAMP station PM-4 was replaced at 1:40pm, after verification with the handheld Jerome® J505 unit that erroneous high readings were being recorded. Instantaneous mercury vapor concentrations were recorded using the Jerome® J505 unit during equipment replacement and concentrations were recorded at 0.0 $\mu\text{g}/\text{m}^3$ between 1:40pm and 1:43pm.
- Perimeter air monitoring station PM-2 was relocated to the southern sidewalk of Water Street from 7:09am to 5:11pm.
- 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 5:11pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.05 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station were recorded at 0.0 ppm.



DAILY AIR MONITORING REPORT

250 Water Street Remediation Site

Manhattan, New York

05/26/22

Project number: 170381202

Page 1 of 2

Submitted By: Lauren Roper, Brian Kenneally

Rev. No. 0

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

100

VOC Action Level (ppm)

5

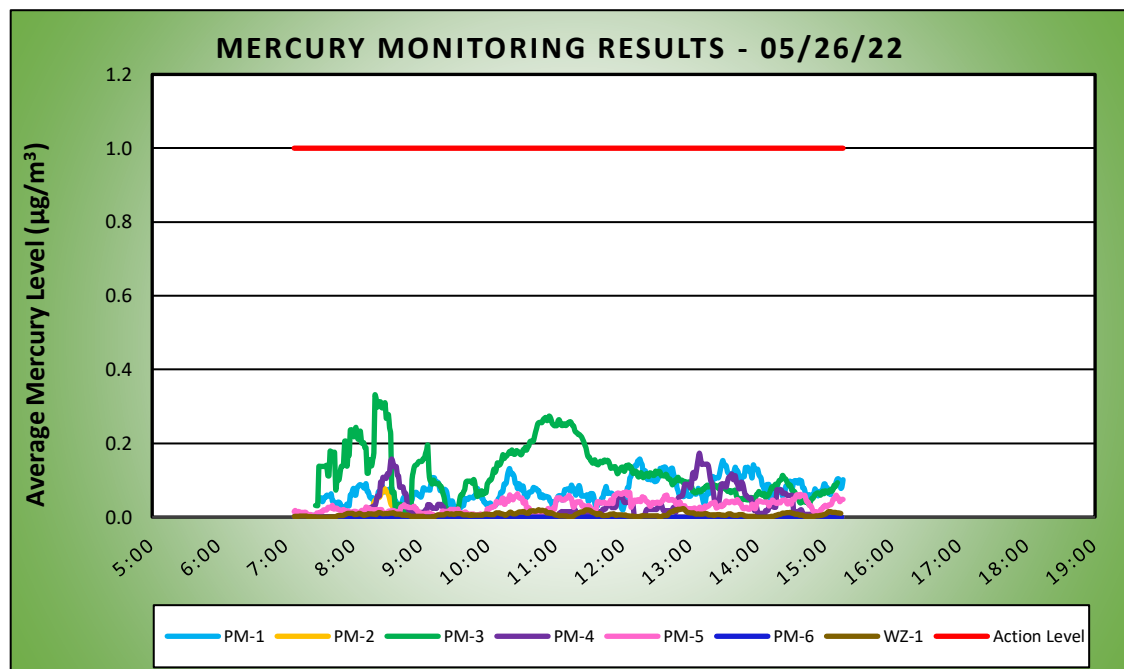
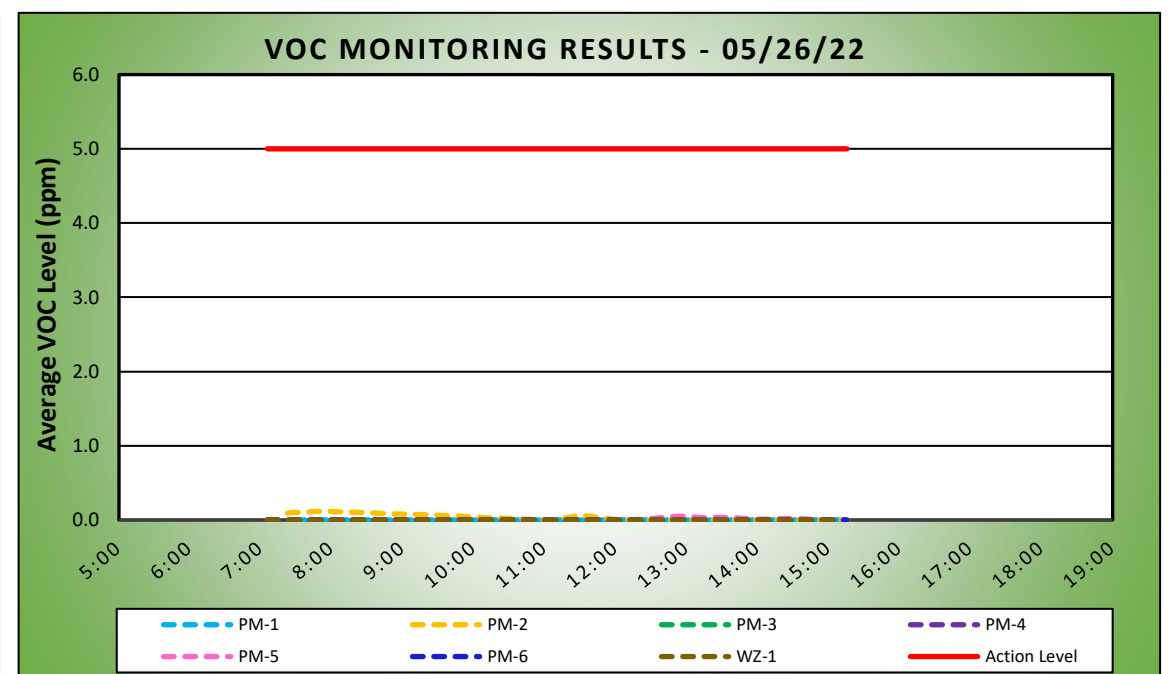
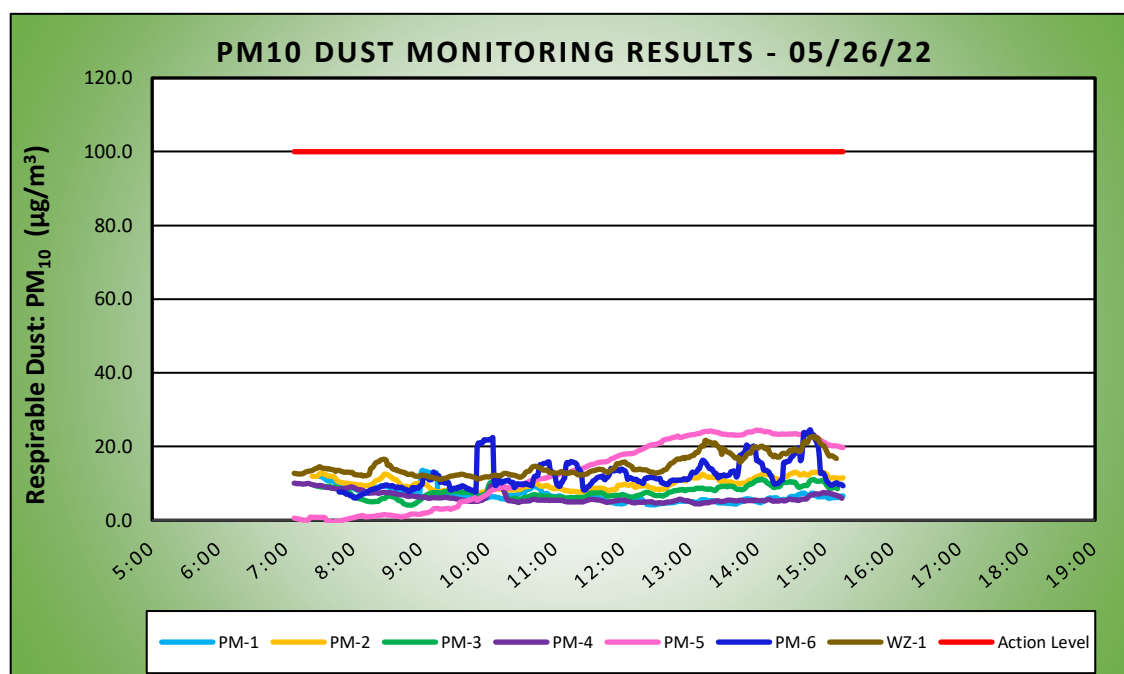
Hg Action Level ($\mu\text{g}/\text{m}^3$)

1.0

Weather Data Range for Work Day		Wind Direction	SSE	Relative Humidity (%)	47.6 - 69.5	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	57.7 - 69.2	Wind Speed (MPH)	0.7 - 6.9	Barometer (inHg)	30.29 - 30.41			

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		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 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		0.1	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 $\mu\text{g}/\text{m}^3$ to 0.04 $\mu\text{g}/\text{m}^3$.
 - Instantaneous mercury vapor concentrations within the work zone ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.09 $\mu\text{g}/\text{m}^3$.
- 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 $\mu\text{g}/\text{m}^3$ to 0.03 $\mu\text{g}/\text{m}^3$.
- 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 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station were recorded at 0.0 ppm.



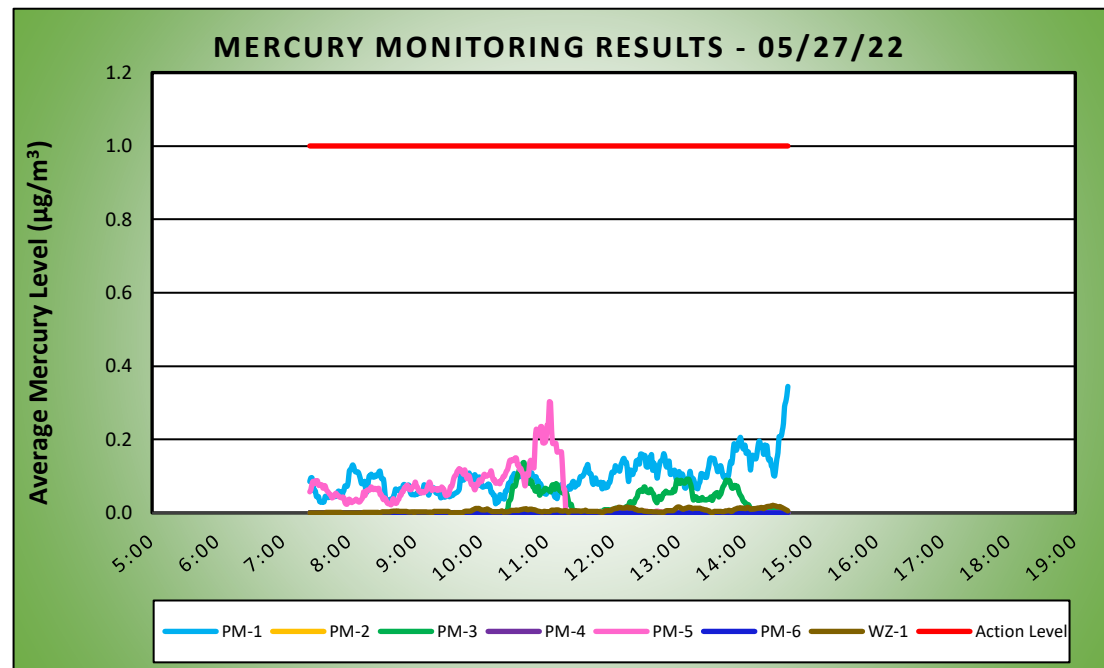
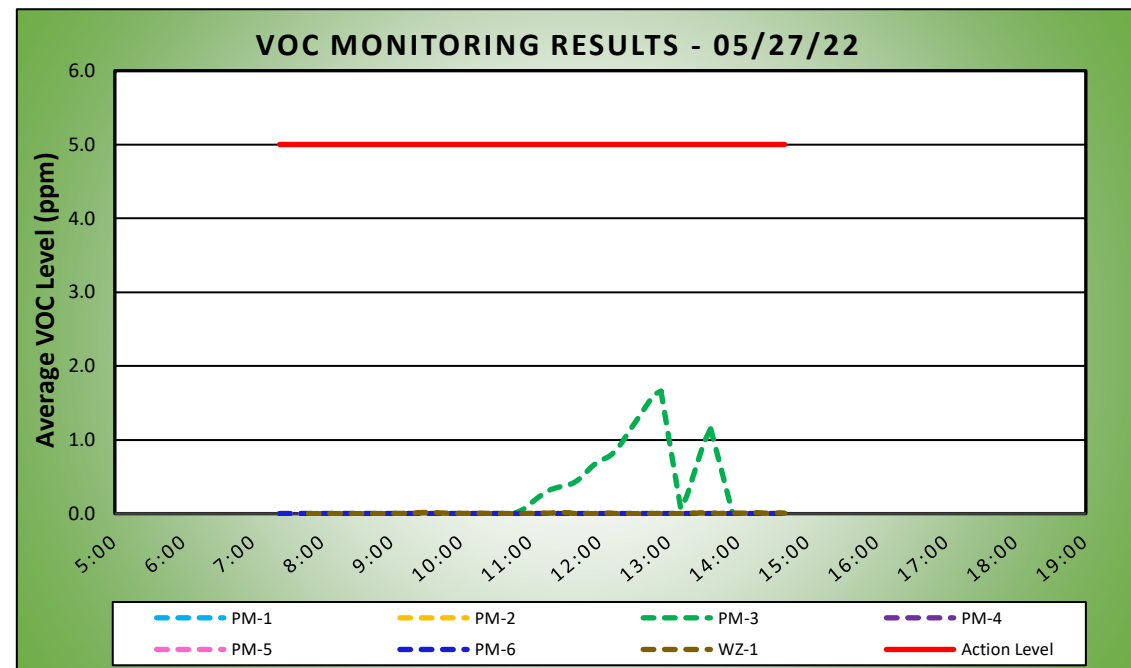
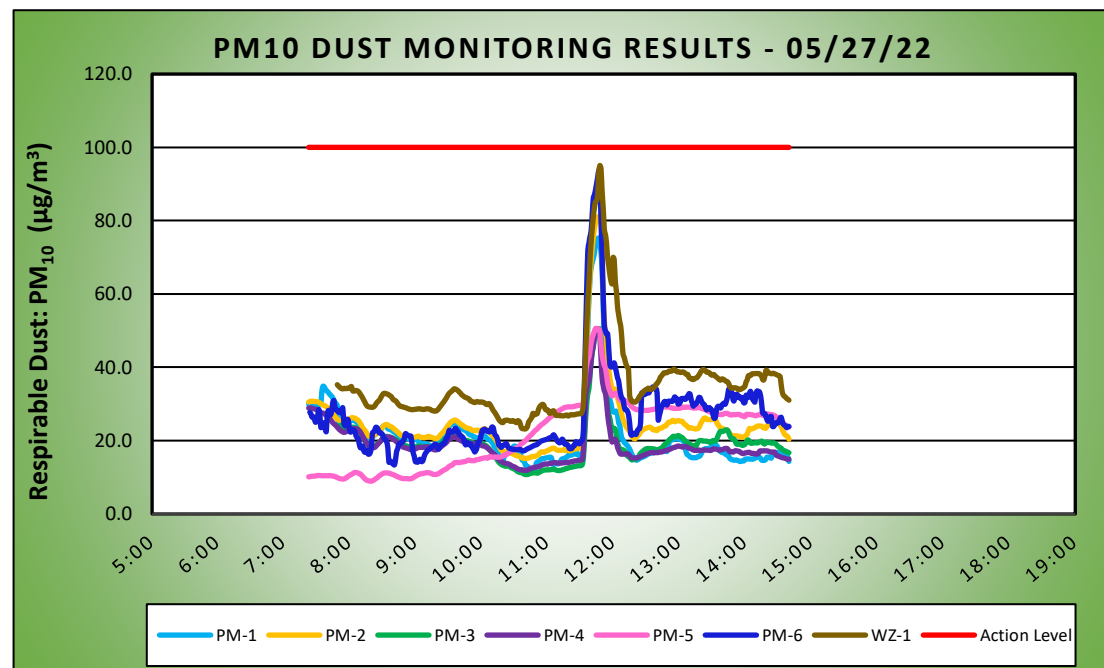
DAILY AIR MONITORING REPORT
250 Water Street Remediation Site
Manhattan, New York

05/27/22	
Project number: 170381202	
Page 1 of 2	
Submitted By: Brian Kenneally, Maitland Robinson	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 (%)	57.5 - 85.4	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp ($^{\circ}\text{F}$)	66.0 - 78.6	Wind Speed (MPH)	1.0 - 5.9	Barometer (inHg)	29.96 - 30.05			

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	21.4	75.2	11:47	0.0	0.0	7:23
PM-2	24.8	81.2	11:47	0.0	0.0	7:23
PM-3	19.3	50.6	11:47	0.3	1.7	12:53
PM-4	19.1	50.0	11:47	0.0	0.0	7:23
PM-5	21.4	50.6	11:45	0.0	0.0	7:23
PM-6	26.5	93.7	11:47	0.0	0.0	7:23
WZ-1	35.3	95.1	N/A	0.0	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	0.1	0.3	14:39
PM-2	0.0	0.0	7:24
PM-3	0.0	0.1	10:39
PM-4	0.0	0.0	7:24
PM-5	0.0	0.3	11:02
PM-6	0.0	0.0	7:24
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 $\mu\text{g}/\text{m}^3$ to 0.04 $\mu\text{g}/\text{m}^3$.
 - Instantaneous mercury vapor concentrations within the work zone ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.05 $\mu\text{g}/\text{m}^3$.
- 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 PID at perimeter air monitoring station PM-3 was recalibrated at 12:54pm and was replaced with another PID unit at 1:37pm due to false positive detections of VOCs when compared to the handheld unit. Data logging resumed at 12:55pm and 1:40pm, respectively, and VOC concentrations returned to background conditions in each instance.
 - Instantaneous mercury vapor concentrations were detected at concentrations ranging from 0.4 $\mu\text{g}/\text{m}^3$ to 1.1 $\mu\text{g}/\text{m}^3$ at perimeter CAMP station PM-5 (between 10:41am and 11:02am), which was located over 150 feet away from the work area along Pearl Street. Work zone mercury vapor concentrations during this time ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.02 $\mu\text{g}/\text{m}^3$ and handheld Jerome® J505 mercury vapor concentrations across the site ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.02 $\mu\text{g}/\text{m}^3$. During this time, no ground-intrusive activities were ongoing at the site and CCJV was placing filter fabric atop the work area in preparation for backfill placement. The instantaneous mercury vapor concentrations did not result in a 15-minute time-weighted average exceedance of the CAMP action levels, and the dedicated CAMP monitor investigated the mercury vapor detections upon notification via the remote telemetry system.
 - The mercury vapor detections were determined to be erroneous false positive readings after confirmation with the handheld Jerome® J505 unit (0.00 $\mu\text{g}/\text{m}^3$).
 - The Jerome® J405 mercury vapor analyzer within perimeter CAMP station PM-5 was disconnected for troubleshooting from 11:03am to 12:44pm. During this time, the handheld Jerome® J505 unit was stationed at perimeter station PM-5 and mercury vapor concentrations ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.03 $\mu\text{g}/\text{m}^3$.
 - The Jerome® J405 unit was reconnected and data logging was resumed at 12:45pm.
- Perimeter air monitoring station PM-2 was relocated to the southern sidewalk of Water Street from 7:09am to 2:40pm.
 - 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 2:40pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.02 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station were recorded at 0.0 ppm.

