SITE OBSERVATION REPORT

PROJECT No.:	170381202		DATE:	Sunday, February 13, 2022	
PROJECT:	250 Water Street	CLIENT: 250 Seaport District, LLC	WEATHER:	Snow, 31.4-32.1 °F Wind: NE @ 6.6-7.5 mph	
LOCATION:	New York, NY				
BCP SITE ID:	C231127		TIME:	6:30 am – 1:00 pm	
CONTRACTOR	AARCO Environm	ental Services Corp. (AARCO)	LANGAN RE	P.: Farielle Brazier	
EQUIPMENT:		PRESENT AT SITE:	Ren	nedial Design Investigation Day 2	
Bobcat E35i Exc	avator	Langan			
Jerome J405 Jerome J505		Mimi Raygorodetsky, Paul McMahon, Farielle Brazier AARCO			
RKI GX-6000 PI	D	Brian Wyble, Will Scheiner, Jua	n Torres		
MiniRAE 3000 F		- , - , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , ,			
DustTrak II					
OBSERVATION	S, DISCUSSIONS, T	EST RESULTS, ETC.:			
Langan continued implementation of the New York State Department of Environmental Conservation (NYSDEC)- approved February 11, 2022 Remedial Design Investigation Work Plan (RDIWP) at the 250 Water Street site (NYSDEC Brownfield Cleanup Program [BCP] Site No. C231127).					
Site Activities					
		i excavator to excavate one te toring across the site during grou		orthwest part of the site. Langan ctivities:	
 TP04 (about 5 feet long by 5 feet wide) was excavated to a maximum depth of about 8 feet below grade surface (bgs). 					
	 Excavated material consisted of brown sand and debris including brick, asphalt, concrete, wood and metal. A brick wall was observed at the Pearl Street side of the test pit. 				
 Ambient air between the work zone and CAMP stations was screened using a photoionization detector (PID) and handheld Jerome[®] J505 mercury analyzer. Instantaneous VOC readings did not exceed background concentrations. Instantaneous mercury vapor readings throughout the site ranged from 0.00 µg/m³ to 0.06 µg/m³ (maximum mercury vapor reading observed within the work zone). 					
 Excavated soil/fill was screened using a PID and a handheld Jerome[®] J505 mercury analyzer. A maximum PID reading of 0.0 parts per million (ppm) and a maximum mercury vapor reading of 0.05 µg/m³ was observed. 					
acousti establis test pit Excess	c curtains. Excava shed work zone, befo was restored to ma soil generated from	ted soil/fill was temporarily sto ore being backfilled after comple tch the surrounding grade using	ockpiled on p tion of one ho cold patch as aced in six, se	-link fencing and Echo Barrier H9™ oolyethylene sheeting, within the our of ambient air monitoring. The phalt immediately after backfilling. ealed and labeled, 55-gallon drums priate facility.	
		i i			
Cc: M. Rayg	jorodetsky, P. McMał	non, M. Au By: Fari	elle Brazier		

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Material Tracking

- No material was imported to the site.
- No material was exported from the site.

<u>Sampling</u>

• None.

CAMP Activities

Langan performed air monitoring during field activities and to monitor ambient air conditions as a component of the Remedial Design Investigation (RDI).

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.015	0.0	0.0
PM-2	0.014	0.0	0.0
PM-3	0.014	0.0	0.0
PM-4	0.011	0.1	0.0
PM-5	0.010	0.0	0.8
PM-6	0.013	0.0	0.0
WZ-1	0.004	0.0	0.0
WZ-2	N/A	N/A	N/A

Daily Average Concentrations

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.021	0.0	0.0
PM-2	0.016	0.0	0.0
PM-3	0.021	0.0	0.0
PM-4	0.014	0.1	0.0
PM-5	0.012	0.0	6.1 @ 11:10am
PM-6	0.018	0.0	0.0
WZ-1	0.010	0.3	0.0
WZ-2	N/A	N/A	N/A
/ 3	1.1		

•mg/m³ = milligrams per cubic meter •ppm = parts per million • μ g/m³ = micrograms per cubic meter

- 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. 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 μg/m³ to 0.06 μg/m³.
 - $\circ~$ The work zone station (WZ-1) and nearby perimeter stations PM-3 and PM-6 remained at 0.0 $\mu g/m^3$ throughout this time period.
 - Instantaneous readings on the PM-5 Jerome[®] J405 unit during this time period ranged from 0.0 μg/m³ to 23.8 μg/m³. 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 μg/m³

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was recorded. The CAMP monitor collected Jerome[®] J505 readings at the station intake, and the Jerome[®] J505 unit read 0.00 µg/m³ at the same time the PM-5 station Jerome[®] J405 unit recorded a reading of 14.81 µg/m³.

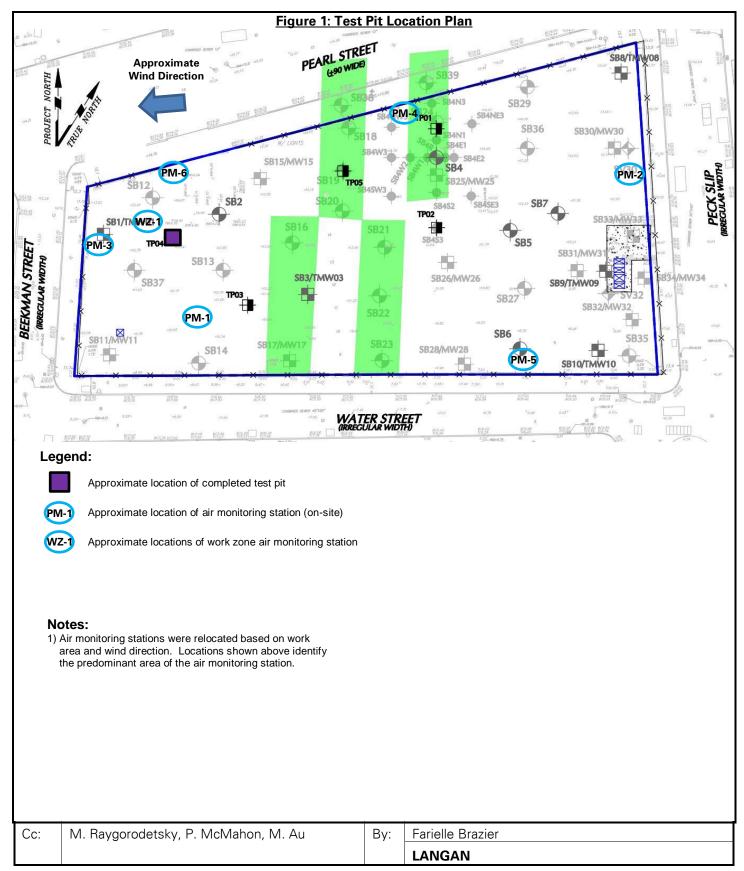
- The exceedances were determined to be erroneous high readings resulting from an equipment malfunction and not a result of ground-intrusive activities associated with test pitting operations.
- To diagnose the equipment malfunction, the CAMP monitor ran a warm-up function on the Jerome[®] J405 unit. 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 µg/m³ after being disconnected from the CAMP station. The Jerome[®] J405 unit was reconnected to the CAMP station, and continued to read 0.0 µg/m³ for the remainder of the operation.
- 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.

Anticipated Activities

• Langan and AARCO will return to the site on February 21, 2022, to begin advancement of waste characterization soil borings for the RDI.

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Select Site Photographs:

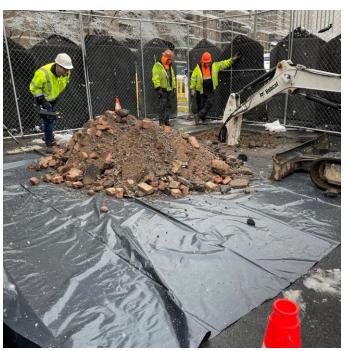


Photo 1: View of AARCO excavating test pit TP04 and stockpiling excavated soil/fill on polyethylene sheeting (facing north).



Photo 2: View of Langan screening test pit TP04 using a Jerome® J505 mercury analyzer.

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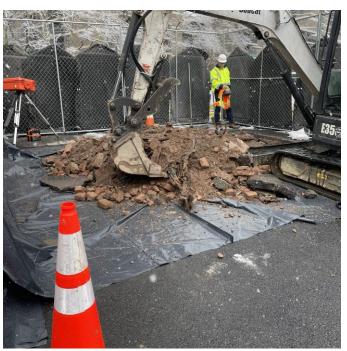


Photo 3: View of Jerome® J505 screening during backfilling of Test Pit TP04 (facing north)



Photo 4: View of test pit TP04, restored to the surrounding grade using cold patch asphalt (facing north).

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