

SITE OBSERVATION REPORT

PROJECT: 250 Water Street CLIENT: Sunny, 68-82 °F WEATHER: Wind: 0.0 mph (7:43 am) to NE @

250 Seaport District, LLC 6.9 mph (10:13 am)

LOCATION: New York, NY

BCP SITE ID: C231127 TIME: 6:45 am – 16:15 pm

CONTRACTOR: AARCO Environmental Services Corp. (AARCO) LANGAN REP. : Tyler Zorn Lexi Haley

EQUIPMENT: PRESENT AT SITE: RI Day 14

Geoprobe 7822 DT Tyler Zorn, Lexi Haley – Langan

Niton XL3t XRF Rohn Dixon, Alex Pothemont – AARCO Environmental Services Corp.

MiniRAE 3000 Dusttrak DRX

Jerome J505 and J405

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan continued implementing Phase 4 of the May 13, 2020 Remedial Investigation Work Plan (RIWP) for New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C231127 located at 250 Water Street (Manhattan Block 98, Lot 1).

Site Activities

- AARCO used a Geoprobe 7822 DT drill rig with 4-foot-long Macro-Core® samplers to advance four soil borings.
 Langan documented the work, screened the soil samples for environmental impacts, and collected soil samples for laboratory analysis.
 - Boring SB12: Boring was advanced to 20 feet below grade surface (bgs). No petroleum-like odors, staining, or photoionization detector (PID) readings above background were observed. Visual evidence of elemental mercury was not identified. Total mercury concentrations evaluated with the Niton XL3t XRF (XRF) were less than the limit of detection (LOD).
 - o Boring SB27: Boring was advanced to 24 feet bgs. Petroleum-like odors, staining, and PID readings up to 3.0 parts per million (ppm) were observed from about 18 to 20 feet bgs. Visual evidence of elemental mercury was not identified. Total mercury concentrations evaluated with the XRF were less than the LOD.
 - Boring SB30: Boring was advanced to 32 feet bgs. Petroleum-like odors, staining, and PID readings ranging from 1.4 to 15,000 ppm were observed from about 13 to 28 feet bgs. Visual evidence of elemental mercury was not identified. Total mercury concentrations evaluated with the XRF were less than the LOD.
 - o Boring SB37: Boring was advanced to 20 feet bgs. No petroleum-like odors, staining, or PID readings above background were observed. Visual evidence of elemental mercury was not identified. Total mercury concentrations evaluated with the XRF were less than the LOD.
- AARCO developed previously installed monitoring wells MW11, MW15, and MW28.
- All soil borings were backfilled with clean drill cuttings from the borehole, clean sand, and/or bentonite and then patched with cold patch asphalt after sampling was completed.

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Material Tracking

- No material was imported to the site.
- No material was exported from the site.
- Impacted soil cuttings from soil borings SB27 and SB30 and purged groundwater from monitoring wells MW11, MW15, and MW28 were containerized and sealed in 55-gallon drums. The drums were stored on-site for future off-site disposal.

Sampling

Soil samples were collected and relinquished to Eurofins Lancaster Laboratories Environmental, Inc. (Eurofins) a New York State Department of Environmental Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory in Lancaster, Pennsylvania (ELAP No. 10670) for analyses proposed in the RIWP:

- The following sample depths were submitted for analysis of volatile organic compounds (VOC), semivolatile organic compounds (SVOC), polychlorinated biphenyls (PCB), pesticides, herbicides, metals including mercury and hexavalent and trivalent chromium, total cyanide, 1,4-dioxane, and per- and polyfluoroalkyl substances (PFAS):
 - o <u>SB12</u>: 1-3, 6-8, and 14-16 feet bgs
 - o <u>SB27</u>: 0-2, 10-12, and 18-20 feet bgs
 - o SB30: 0-2, 16-18, and 30-32 feet bgs
 - o SB37: 2-4, 6-8, and 12-14 feet bgs
- The following sample depths were submitted for analysis of VOCs and SVOCs and Part 375/TAL Metals:
 - o <u>SB27</u>: 20-22 feet bas
- The following sample depths were submitted an placed on hold for analysis of mercury:
 - o SB27: 2-4
- Three quality assurance/quality control soil samples (a trip blank, equipment blank, and field blank) were collected and submitted for analysis.

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CAMP Activities

Langan performed air monitoring during ground-intrusive activities. Fifteen-minute average concentrations of mercury vapor, VOCs, and particulate matter smaller than 10 microns in diameter (PM10) did not exceed action levels for the duration of work activities. Daily background concentrations for PM10, VOCs, and mercury vapor based on the June 16, 2020 baseline air monitoring event were 0.025 milligrams per cubic meter (mg/m³) for PM10, 0.5 ppm for VOCs, and 0.0 µg/m³ for mercury vapor.

| Daily Average Concentrations | | | | | | |
|------------------------------|---------------------|---------------------|-----------------------|--|--|--|
| Station ID | Particulate (mg/m³) | Organic Vapor (ppm) | Mercury Vapor (µg/m³) | | | |
| PM-1 | 0.008 | 0.0 | 0.0 | | | |
| PM-2 | 0.023 | 0.1 | 0.0 | | | |
| PM-3 | 0.008 | 0.0 | 0.0 | | | |
| PM-4 | 0.005 | 0.0 | 0.0 | | | |
| PM-5 | 0.005 | 0.4 | 0.0 | | | |
| PM-6 | 0.006 | 0.1 | 0.0 | | | |
| WZ-1 | 0.005 | 0.0 | 0.0 | | | |

mg/m³ = milligrams per cubic meter

ppm = parts per million

 μ g/m³ = micrograms per cubic meter

| Maximum 15-Minute-Average Concentration | | | | | | |
|---|---------------------|---------------------|-----------------------|--|--|--|
| Station ID | Particulate (mg/m³) | Organic Vapor (ppm) | Mercury Vapor (µg/m³) | | | |
| PM-1 | 0.014 | 0.0 | 0.0 | | | |
| PM-2 | 0.030 | 0.2 | 0.0 | | | |
| PM-3 | 0.021 | 0.0 | 0.0 | | | |
| PM-4 | 0.010 | 0.0 | 0.3 | | | |
| PM-5 | 0.010 | 1.0 | 0.0 | | | |
| PM-6 | 0.010 | 0.8 | 0.0 | | | |
| WZ-1 | 0.018 | 0.0 | 0.0 | | | |

Anticipated Activities

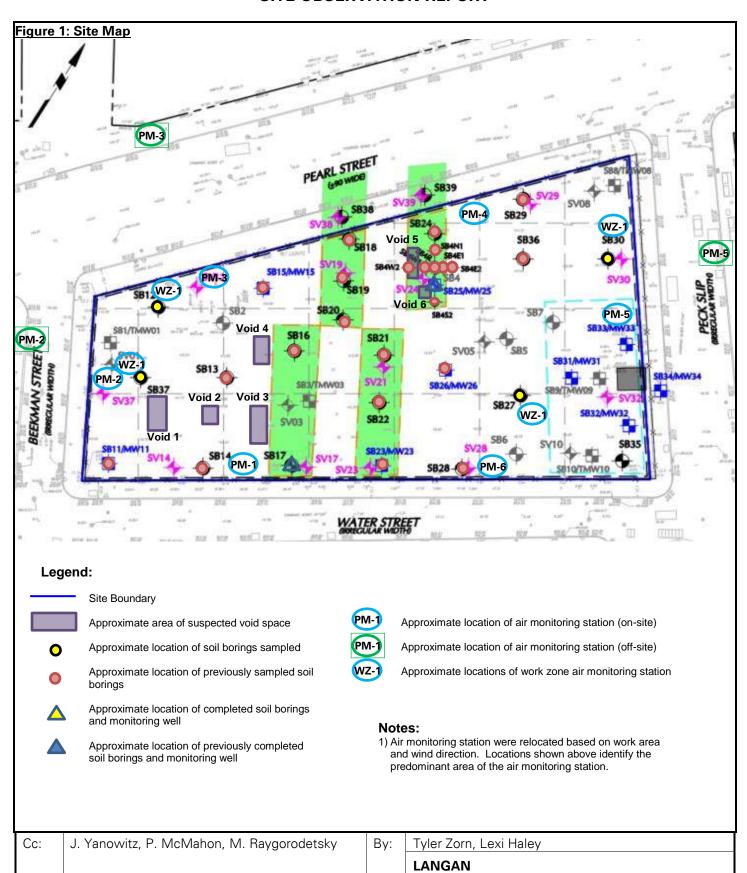
• AARCO and Langan will continue to advance and sample soil borings and install monitoring wells at the site.

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Select Site Photographs:

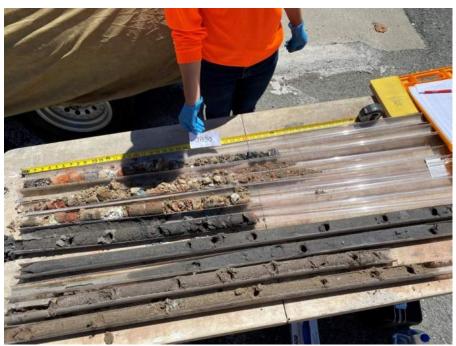


Photo 1: View of soil from boring SB30



Photo 2: Perimeter CAMP station WZ-1 and off-site CAMP station PM-2 along Beekman Street during the drilling of boring SB37 (facing southwest)

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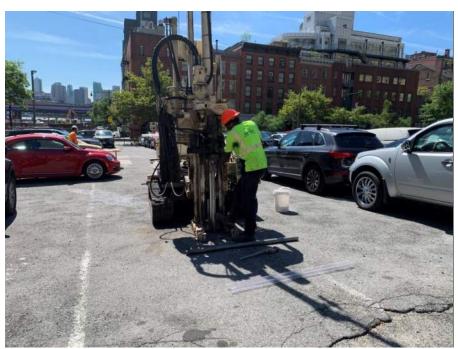


Photo 3: AARCO drilling boring SB30 (facing southeast)

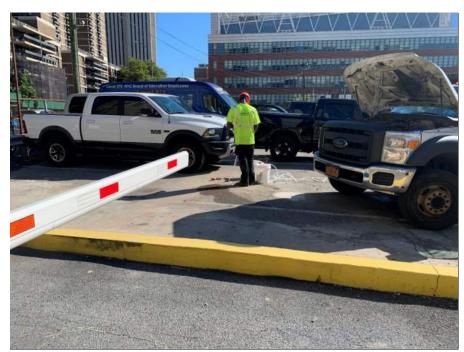


Photo 4: AARCO developing monitoring well MW15 (facing north)

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