LANGAN

# SITE OBSERVATION REPORT

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| **PROJECT No.:** 170381202 | | **DATE:** | Sunday, December 12, 2021 |
| **PROJECT:** 250 Water Street | **CLIENT:** 250 Seaport District, LLC | **WEATHER:** | Partly cloudy, 53-51 ˚F<br>Wind: ENE @ 0.9 to 6.5 mph |
| **LOCATION:** New York, NY | | **TIME:** | 7:00 am – 3:00 pm |
| **BCP SITE ID:** C231127 | | | |
| **CONTRACTOR:** AARCO Environmental Services Corp. (AARCO) | | **LANGAN REP. :** | Lauren Roper |

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| **EQUIPMENT:**<br>CME75 and Geoprobe 7822DT<br>Jerome J405/J505<br>MiniRAE 3000<br>Dusttrak DRX | **PRESENT AT SITE:** **Geotechnical Investigation Day 7**<br>Lauren Roper, Kevin Ieong, Joe Yanowitz – Langan<br>Julio Gelerza – AARCO |

**OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:**

Langan implemented the Community Air Monitoring Plan (CAMP) during a geotechnical investigation at the 250 Water Street site (New York State Department of Environmental Conservation [NYSDEC] Brownfield Cleanup Program [BCP] Site No. C231127).

**Site Activities**

- AARCO used a truck-mounted CME75 drill rig and a track-mounted Geoprobe 7822 DT drill rig to advance three geotechnical soil borings using mud rotary with split-spoon samplers.
    - Boring LB-7 was advanced to 75 feet below grade surface (bgs).
    - Boring LB-12 was advanced to 60 feet bgs.
    - Boring LB-13 was advanced to 100 feet bgs. A petroleum-like odor and photoionization detector (PID) reading of 35.5 parts per million (ppm) were observed from 15 to 17 feet bgs.

**Material Tracking**

- Soil cuttings were containerized in sealed 55-gallon drums.
- No material was imported to the site.
- No material was exported from the site.

**Sampling**

- No environmental samples were collected.

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## CAMP Activities

Langan performed air monitoring during ground-intrusive activities. Fifteen-minute average concentrations of particulate matter smaller than 10 microns in diameter (PM10), mercury vapor, and volatile organic compounds (VOC) did not exceed action levels for the duration of work activities.

**Daily Average Concentrations**

| Station ID | Particulate ($mg/m^3$) | Organic Vapor (ppm) | Mercury Vapor ($\mu g/m^3$) |
|---|---|---|---|
| PM-1 | 0.003 | 0.3 | 0.0 |
| PM-2 | 0.000 | 0.3 | 0.0 |
| PM-3 | 0.001 | 0.0 | 0.0 |
| PM-4 | 0.000 | 0.0 | 0.0 |
| PM-5 | 0.000 | 0.0 | 0.0 |
| PM-6 | 0.000 | 0.0 | 0.0 |
| WZ-1 | 0.001 | 0.0 | 0.0 |
| WZ-2 | 0.003 | 0.0 | 0.0 |

**Maximum 15-Minute-Average Concentrations**

| Station ID | Particulate ($mg/m^3$) | Organic Vapor (ppm) | Mercury Vapor ($\mu g/m^3$) |
|---|---|---|---|
| PM-1 | 0.008 | 0.8 | 0.0 |
| PM-2 | 0.003 | 0.8 | 0.0 |
| PM-3 | 0.006 | 0.0 | 0.0 |
| PM-4 | 0.003 | 0.0 | 0.0 |
| PM-5 | 0.000 | 0.1 | 0.0 |
| PM-6 | 0.002 | 0.1 | 0.0 |
| WZ-1 | 0.007 | 0.1 | 0.0 |
| WZ-2 | 0.008 | 0.1 | 0.0 |

●$mg/m^3$ = milligrams per cubic meter ●ppm = parts per million ●$\mu g/m^3$ = micrograms per cubic meter

- Langan used a handheld MultiRAE to monitor VOCs in the work zone and in between the work zone and CAMP stations. Instantaneous VOC readings did not exceed background concentrations.
- Langan used a handheld Jerome J505 to monitor mercury vapor in the work zone and in between the work zone and CAMP stations. Instantaneous mercury vapor readings did not exceed background concentrations.

## Anticipated Activities

- AARCO will continue drilling soil borings as part of the geotechnical investigation on December 18 and 19.

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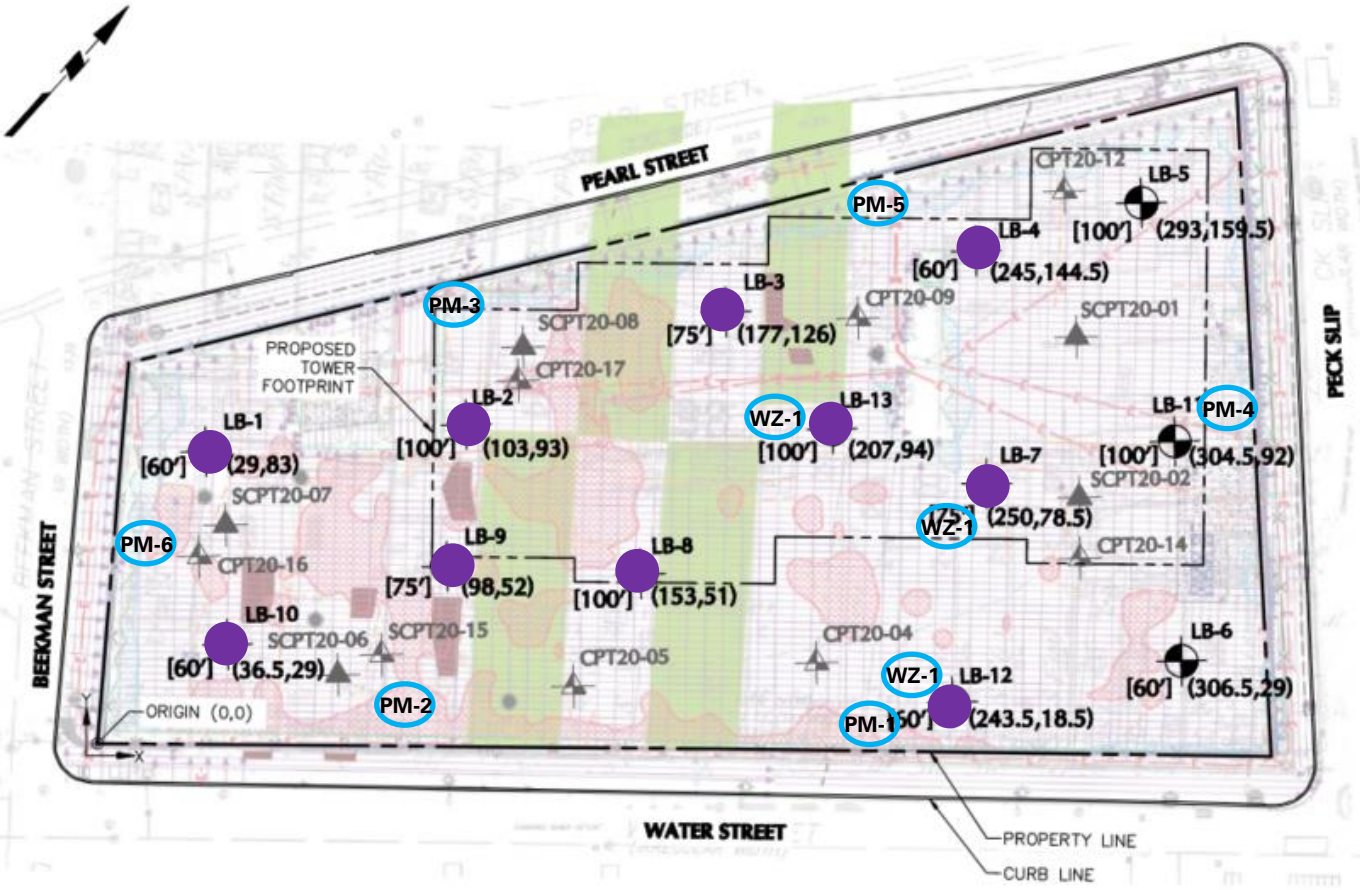
**Figure 1: Geotechnical Investigation Location Map**




**Legend:**

- Approximate location of in progress soil boring location
- Approximate location of completed soil boring location
- PM-1 — Approximate location of air monitoring station (on-site)
- WZ-1 — Approximate locations of work zone air monitoring station

**Notes:**

1) Air monitoring station were relocated based on work area and wind direction. Locations shown above identify the predominant area of the air monitoring station.

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**Select Site Photographs:**


Photo 1: View of AARCO drilling at LB-7 and LB-13 (facing east).


Photo 2: View of AARCO drilling at LB-13 (facing north).

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