**Day 176** 



#### SITE OBSERVATION REPORT

**PROJECT No.:** 170381202

CLIENT:

LLC

Monday, August 7, 2023

PROJECT:

250 Water Street

....

**WEATHER:** 

DATE:

Rain/Overcast, 74 – 82° F Wind: W @ 0.2 – 2.2 mph

LOCATION:

New York, NY

TIME:

5:45am – 4:30pm

**BCP SITE ID:** 

C231127

**MONITOR** 

Gabriella DeGennaro

**EQUIPMENT:** 

CAT 335 Excavator
Komatsu PC138 Excavator
ABI Mobilram Drill Rig
Jerome J505 Mercury Vapor Analyzer
RKI GX-6000 Photoionization Detector (PID)
Aeroqual ASQ1 Air Monitoring Station

PRESENT AT SITE:

250 Seaport District,

**Hughes Corporation** 

c/o The Howard

**Langan** (Environmental/Geotechnical) Gabriella DeGennaro, Aron Farber,

Tom Keane

**Suffolk Construction (Suffolk)** (General Contractor) Anthony Galu **East Coast Drilling, Inc. (ECD)** (Foundation Contractor) Ryan Nugent **New York State Department of Environmental Conservation** 

(NYSDEC) Meghan Medwid

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

Langan was present to document remediation activities in accordance with the NYSDEC-approved November 2021 Remedial Action Work Plan (RAWP) at the 250 Water Street site (NYSDEC Brownfield Cleanup Program [BCP] Site No C231127).

#### **Site Activities**

- ECD used an ABI Mobilram drill rig to install two soil mix columns to depths between about 30 and 36 feet below grade surface (bgs) for support-of-excavation (SOE) installation in the southwestern part of the site (Water Street). ECD's drill rig advanced a steel rod with a soil mixing paddle at the bottom of the rod, while concurrently injecting grout through the top of the paddle and spinning and advancing the paddle downward.
  - o No drilling spoils were generated during installation of the soil mix columns.
  - Excess grout was contained within a temporary trench adjacent to the drilling area and will be managed as construction and demolition (C&D) debris at a later date.
- ECD graded an about 45-foot-long by 15-foot-wide area to create a level surface for equipment staging in the southwestern part of the site (along Water Street).
  - o Graded soil/fill was screened for odors, staining, organic vapors, and mercury vapor using a handheld photoionization detector (PID) and handheld Jerome® J505 mercury vapor analyzer, respectively. No evidence of impacts was observed.

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## SITE OBSERVATION REPORT

# **Material Tracking**

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

|   | Material Import Summary   |                             |  |                             |  |                          |   |                             |
|---|---|-----------------------------|--|-----------------------------|--|--------------------------|---|-----------------------------|
| Facility Name<br>Location<br>Type of Material | Stone Industries, Inc.<br>Haledon, NJ<br>1.5/2.5-inch Virgin<br>Stone |                             | Stone Industries, Inc.<br>Haledon, NJ<br>0.75-inch Virgin<br>Stone |                             | Impact Reuse & Recovery Center or Impact Materials Jersey City, Lyndhurst/Jersey City, NJ 1.5-inch Clean Bluestone |                          | Impact Reuse &<br>Recovery Center,<br>Lyndhurst, NJ<br>General Fill |                             |
| Quantities                                    | No. of<br>Loads   | Approx.<br>Volume<br>(Tons) | No. of<br>Loads  | Approx.<br>Volume<br>(Tons) | No. of<br>Loads  | Approx. Volume<br>(Tons) | No. of<br>Loads   | Approx.<br>Volume<br>(Tons) |
| Today   | 0   | 0                           | 0  | 0                           | 0  | 0                        | 0   | 0                           |
| Project Total                                 | 8   | 184.42                      | 0  | 0                           | 15   | 339.65                   | 374   | 9,157.85                    |
| NYSDEC<br>Approved:                           | 1,800 tons*   |                             |  | 72                          | 20 tons*   | 19,500                   | tons*   |                             |

\*0.75-inch, 1.5-inch, and 2.5-inch virgin stone from the Stone Industries, Inc. facility and 1.5-inch clean bluestone from the Impact Reuse & Recovery Center (IRRC) facility were approved for import of 1,000 cubic yards (CY) and 400 CY, respectively. Assuming a conversion factor of 1.8, each quantity was converted to tons in order to accurately compare with import weight tickets. General fill from the IRRC facility was approved for import of 13,000 CY and a conversion factor of 1.5 is applied.

|   | Material Export Summary (1 of 3)   |                        |                                     |                        |   |                        |   |                        |
|---|--|------------------------|-------------------------------------|------------------------|---|------------------------|---|------------------------|
| Facility Name<br>Location<br>Type of Material | Allocco Recycling<br>Brooklyn, NY<br>Construction & Demolition<br>(C&D) Debris |                        | IRRC<br>Lyndhurst, NJ<br>C&D Debris |                        | Earth Efficient MSM<br>East Stroudsburg, PA<br>C&D Debris |                        | Clean Earth of North Jersey<br>Kearny, NJ<br>Hazardous Lead-Impacted<br>Soil/Fill |                        |
| Quantities                                    | No. of<br>Loads  | Approx.<br>Volume (CY) | No. of<br>Loads                     | Approx.<br>Volume (CY) | No. of<br>Loads   | Approx.<br>Volume (CY) | No. of<br>Loads   | Approx.<br>Volume (CY) |
| Today   | 0  | 0                      | 0                                   | 0                      | 0   | 0                      | 0   | 0                      |
| Project Total                                 | 5  | 85                     | 42                                  | 840                    | 14  | 280                    | 95  | 1,900                  |

|   | Material Export Summary (2 of 3)   |                        |              |   |  |                        |  |  |
|---|--|------------------------|--------------|---|--|------------------------|--|--|
| Facility Name<br>Location<br>Type of Material | Middlesex County Landfill<br>East Brunswick, NJ<br>Non-hazardous Soil/Fill |                        | Keas         | oil Management<br>Bbey, NJ<br>mpacted Soil/Fill | Clean Earth of Carteret, NJ<br>Carteret, NJ<br>Non-hazardous Soil/Fill |                        |  |  |
| Quantities                                    | No. of Loads   | Approx. Volume<br>(CY) | No. of Loads | Approx. Volume<br>(CY)                          | No. of Loads   | Approx. Volume<br>(CY) |  |  |
| Today   | 0  | 0                      | 0            | 0   | 0  | 0                      |  |  |
| Project Total                                 | 263  | 5,260                  | 267          | 5,340   | 66   | 1,320                  |  |  |

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| Material Export Summary (3 of 3)              |  |                     |  |  |  |  |
|---|--|---------------------|--|--|--|--|
| Facility Name<br>Location<br>Type of Material | Clean Earth of North Jersey<br>Kearny, NJ<br>Non-hazardous Soil/Fill |                     |  |  |  |  |
| Quantities                                    | No. of Loads   | Approx. Volume (CY) |  |  |  |  |
| Today   | 0  | 0                   |  |  |  |  |
| Project Total                                 | 216  | 4,320               |  |  |  |  |

# <u>Sampling</u>

| • | No | samp | es ' | were | col | lected | J. |
|---|----|------|------|------|-----|--------|----|
|---|----|------|------|------|-----|--------|----|

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#### SITE OBSERVATION REPORT

#### **CAMP Activities**

Langan performed air monitoring at the perimeter of the site, at the northern sidewalk of Pearl Street, at the western sidewalk of Beekman Street, and at the southern sidewalk of Water Street at seven total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10) from about 7:35am to 3:45pm. There were no fifteen-minute average concentrations for mercury vapor, VOCs or PM10 that approached or exceeded the action levels established by the CAMP (1.00  $\mu$ g/m³, 5.0 ppm, or 0.100 mg/m³, respectively).

#### **Background Concentrations**

Prior to implementation of CAMP, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID, respectively.

- Background concentrations of mercury vapor at each CAMP station were recorded at 0.00 g/m<sup>3</sup>.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

### Perimeter and Work Zone Concentrations

### **Daily Average Concentrations**

| Station ID | Particulate (mg/m³) | Organic Vapor (ppm) | Mercury Vapor (µg/m³) |
|------------|---------------------|---------------------|-----------------------|
| PM-1       | 0.013               | 0.00                | 0.01                  |
| PM-2       | 0.012               | 0.00                | 0.01                  |
| PM-3       | 0.012               | 0.00                | 0.01                  |
| PM-4       | 0.012               | 0.00                | 0.02                  |
| WZ-1       | 0.013               | 0.00                | 0.02                  |
| WZ-2       | 0.012               | 0.00                | 0.00                  |
| WZ-3       | -                   | -                   | -                     |
| WZ-4       | 0.012               | 0.00                | 0.01                  |

#### **Maximum 15-Minute-Average Concentrations**

| Station ID | Particulate (mg/m³) | Organic Vapor (ppm) | Mercury Vapor (µg/m³) |
|------------|---------------------|---------------------|-----------------------|
| PM-1       | 0.021               | 0.01                | 0.16                  |
| PM-2       | 0.016               | 0.00                | 0.02                  |
| PM-3       | 0.023               | 0.00                | 0.18                  |
| PM-4       | 0.021               | 0.02                | 0.13                  |
| WZ-1       | 0.020               | 0.02                | 0.09                  |
| WZ-2       | 0.017               | 0.01                | 0.00                  |
| WZ-3       | -                   | -                   | -                     |
| WZ-4       | 0.019               | 0.03                | 0.02                  |

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

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#### SITE OBSERVATION REPORT

# Ambient Air (Handheld Jerome® J505 and Handheld PID)

- The dedicated mobile monitor (Langan) used a handheld Jerome® J505 mercury vapor analyzer to monitor ambient air conditions at various heights throughout the site. Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 µg/m³ to 0.18 µg/m³.
- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were not detected above background concentrations throughout the workday.

#### Off-site CAMP Stations

- CAMP station WZ-1 was placed on the western sidewalk of Beekman Street from 6:56am to 4:05pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 7:00am to 4:11pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 7:14am to 3:59pm.

#### Prior to CAMP Shutdown

Prior to discontinuing CAMP, mercury vapor and VOC concentrations were confirmed to return to background conditions at each perimeter station using the handheld Jerome® J505 mercury vapor analyzer and handheld PID, respectively. Perimeter CAMP stations were discontinued sequentially between 3:45pm and 3:51pm.

- Background concentrations of mercury vapor at each CAMP station were recorded at 0.00 μg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

#### **Anticipated Activities**

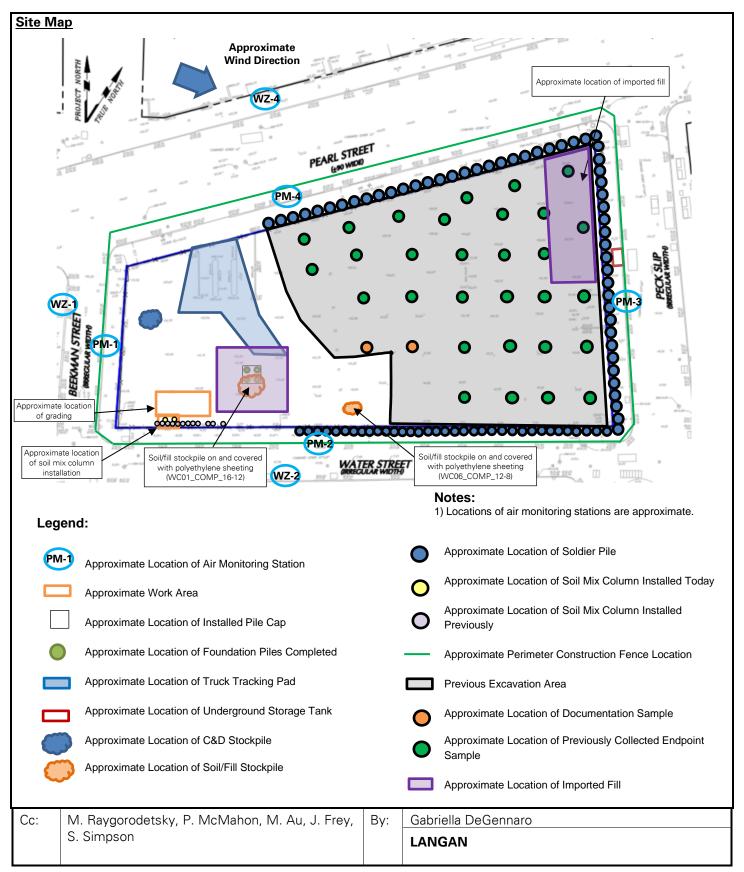
- ECD will continue exporting C&D and soil/fill from the western part of the site for off-site disposal.
- ECD will continue installing soil mix columns for SOE installation along Water Street.

| Cc: | M. Raygorodetsky, P. McMahon, M. Au, J. Frey, | Ву: | Gabriella DeGennaro |
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# SITE OBSERVATION REPORT

# **Select Site Photographs:**



Photo 1: ECD advancing a soil mix column in the southwest part of the site (facing southwest)



Photo 2: ECD grading soil/fill in the southwest part of the site (facing southeast)

Cc: M. Raygorodetsky, P. McMahon, M. Au, J. Frey,

Ву:

Gabriella DeGennaro

S. Simpson

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