

### SITE OBSERVATION REPORT

**PROJECT No.:** 170381202

CLIENT:

LLC

Monday, September 11, 2023

PROJECT:

250 Water Street

**WEATHER:** 

DATE:

Partly Cloudy, 72 – 80° F

c/o The Howard **Hughes Corporation** 

250 Seaport District,

Wind: E @ 0.2 - 1.7 mph

LOCATION:

New York, NY

TIME: 5:45am - 5:00pm

**BCP SITE ID:** C231127 **MONITOR** Jack Millman

**EQUIPMENT:** 

CAT 335 Excavator CAT 328 Excavator

Komatsu PC138 Excavator

Delmag Drill Rig Bauer RTG RG 27S Bauer BG45 Drill Rig

Jerome J505 Mercury Vapor Analyzer RKI GX-6000 Photoionization Detector (PID) Aeroqual ASQ1 Air Monitoring Station

PRESENT AT SITE:

Day 200 Langan (Environmental/Geotechnical) Jack Millman, Michael Cole,

Pradeep Pandey

Suffolk Construction (Suffolk) (General Contractor) Anthony Galu,

Wyatt Favia

East Coast Drilling, Inc. (ECD) (Foundation Contractor) Danny Rodgers

**New York State Department of Environmental Conservation** 

(NYSDEC) Meghan Medwig

### **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 excavated previously imported fill to a maximum depth of about 3 feet below grade surface (bgs) in the northeast part of the site to facilitate installation of soil mix columns for the support-of-excavation (SOE) system.
- ECD continued installation of the concrete guide wall in the northeast part of the site (along Pearl Street). The concrete guide wall will be used to facilitate installation of SOE along the perimeter of the site.

Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Jack Millman
	S. Simpson		LANGAN



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## **Material Tracking**

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

Material Import Summary								
Facility Name Location Type of Material	Stone Industries, Inc. Haledon, NJ Haledon, NJ 1.5/2.5-inch Virgin Stone Stone Stone		on, NJ h Virgin	Impact Reuse & Recovery Center or Impact Materials Jersey City, Lyndhurst/Jersey City, NJ 1.5-inch Clean Bluestone		Impact Reuse & Recovery Center, Lyndhurst, NJ General Fill		
Quantities	No. of Loads	Approx. Volume (Tons)	No. of Loads	Approx. Volume (Tons)	No. of Loads	Approx. Volume (Tons)	No. of Loads	Approx. Volume (Tons)
Today	0	0	0	0	0	0	0	0
Project Total	12	283.91	0	0	15	339.65	374	9,157.85
NYSDEC 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 Location Type of Material	Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		IRRC Lyndhurst, NJ C&D Debris		Earth Efficient MSM East Stroudsburg, PA C&D Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill	
Quantities	No. of Loads	Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)
Today	0	0	0	0	0	0	0	0
Project Total	5	85	42	840	38	760	95	1,900

Material Export Summary (2 of 3)						
Facility Name Location Type of Material	cation East Brunswick, NJ		Keas	oil Management Bbey, NJ mpacted Soil/Fill	Clean Earth of Carteret, NJ Carteret, NJ Non-hazardous Soil/Fill	
Quantities	No. of Loads	Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)
Today	0	0	0	0	0	0
Project Total	273	5,460	267	5,340	66	1,320

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Material Export Summary (3 of 3)						
Facility Name Clean Earth of North Jersey Location Kearny, NJ Type of Material Non-hazardous Soil/Fill		Kearny, NJ		n, Inc. , NJ pacted Soil/Fill		
Quantities	No. of Loads	Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)		
Today	0	0	0	0		
Project Total	201	4,020	10	200		

# <u>Sampling</u>

•	No sample	es were	collected.
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#### **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, at the eastern sidewalk of Peck Slip, and at the southern sidewalk of Water Street at eight total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10) from about 6:39am to 4:06pm. 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<sup>®</sup> J505 mercury vapor analyzer and a handheld PID, respectively.

- 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.

### Perimeter and Work Zone Concentrations

### **Daily Average Concentrations**

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.007	0.00	0.03
PM-2	0.008	0.00	0.01
PM-3	0.011	0.00	0.03
PM-4	0.008	0.00	0.02
WZ-1	0.007	0.00	0.00
WZ-2	0.007	0.00	0.00
WZ-3	0.008	0.00	0.00
WZ-4	0.007	0.00	0.02

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

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.021	0.05	* 0.60
PM-2	0.026	0.04	* 0.30
PM-3	0.033	0.04	* 0.47
PM-4	0.017	0.08	* 0.16
WZ-1	0.010	0.00	0.01
WZ-2	0.014	0.13	0.01
WZ-3	0.015	0.02	0.01
WZ-4	0.014	0.00	0.04

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

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#### **Equipment Troubleshooting**

\* Mercury vapor unit readings above background (maximum reading of 0.60 ug/m3) were recorded prior to the start of work (before 7:00am), and are attributed to instrument equilibration to ambient conditions. As stated in the Jerome 505 manual, "moving the instrument from an air-conditioned environment to one of higher temperature and humidity may cause condensation on some of the optical surfaces. For best results, it is recommended to allow the instrument to equilibrate to ambient conditions before testing." CAMP was setup about 40 minutes prior to the start of work to allow the units to equilibrate to ambient air conditions, however, humidity above 90% resulted in longer equilibration time for some units.

### 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 0.16 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 about 6:18am to 4:19pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from about 6:19am to 4:24pm.
- CAMP station WZ-3 was placed on the eastern sidewalk of Peck Slip from about 6:22am to 4:33pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from about 6:25am to 4:47pm.

#### 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<sup>®</sup> J505 mercury vapor analyzer and handheld PID, respectively. Perimeter CAMP stations were discontinued sequentially between 4:06pm and 4:12pm.

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

#### **Anticipated Activities**

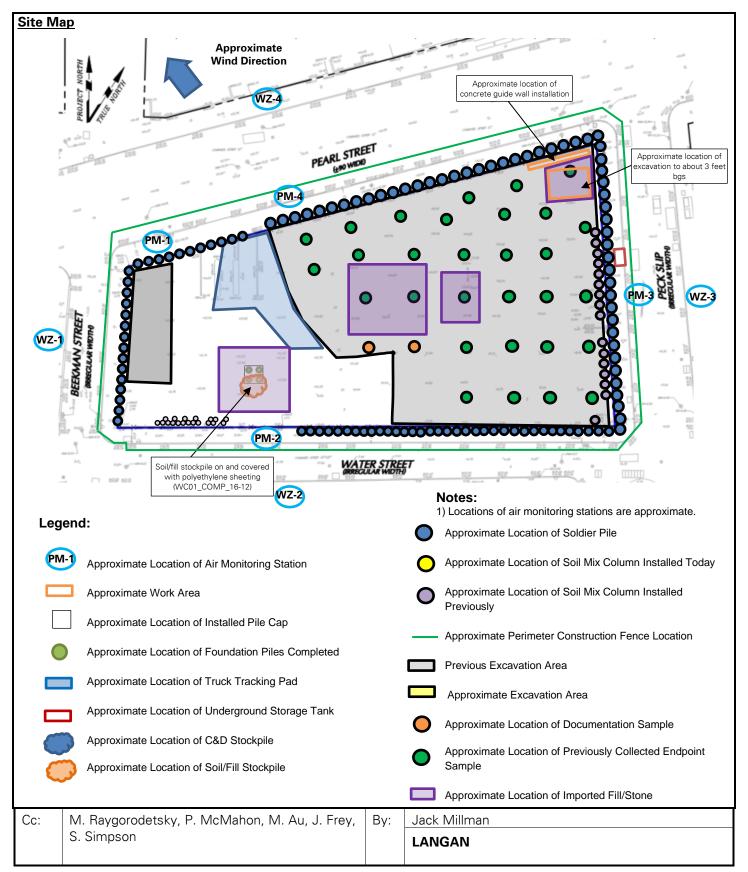
- ECD will continue exporting C&D and soil/fill from the western part of the site for off-site disposal.
- ECD will continue installing soil mix columns and/or soldier piles for SOE installation along Pearl Street and Peck Slip.
- ECD will continue installation of timber lagging for the SOE system in the western part of the site.

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## **SITE OBSERVATION REPORT**

## **Select Site Photographs:**



Photo 1: ECD excavating previously imported fill in the northeast part of the site (facing east)

Cc: M. Raygorodetsky, P. McMahon, M. Au, J. Frey, S. Simpson By: Jack Millman LANGAN