

#### SITE OBSERVATION REPORT

**PROJECT No.:** 170381202

CLIENT:

DATE: Wednesday, August 30, 2023

PROJECT:

LOCATION:

250 Water Street

New York, NY

250 Seaport District, LLC

c/o The Howard

**Hughes Corporation** 

Partly Cloudy/Rain, 74 – 82° F **WEATHER:** 

Wind: SE @ 0.1 – 1.6 mph

TIME:

5:45am - 7:00pm

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

**EQUIPMENT:** 

CAT 335 Excavator CAT 328 Excavator

Komatsu PC138 Excavator ABI Mobilram Drill Rig

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 193 Langan (Environmental/Geotechnical) Jack Millman, Michael Cole,

Pepper Greenley, JN Stanley, 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) Shawn Roberts

## **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 a Bauer RTG RG 27S drill rig to pre-drill two boreholes in the eastern part of the site to loosen the underlying soil in preparation for soil mix column installation.
- ECD used a Bauer BG45 drill rig to install two deep soil mix columns for support-of-excavation (SOE) installation in the eastern part of the site (along Peck Slip). ECD's drill rig advanced a steel rod with two cutter blades at the bottom of the rod, while concurrently injecting grout through the cutting head and spinning and advancing the blades downward to depths between about 90 and 96 feet below grade surface (bgs).
  - o No drilling spoils were generated during installation of the soil mix column.
  - o Excess grout was contained within a temporary containment area in the eastern part of the site and will be managed as construction and demolition (C&D) debris at a later date.
- ECD excavated an about 5-foot-long by 5-foot-wide area and an about 5-foot-long by 10-foot-wide area to a maximum depth of about 8 feet bgs in the northwest part of the site (waste characterization cells WC01 and WC02) to install timber lagging for the SOE system.
  - o Excavated 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 and the excavated soil/fill was temporarily graded adjacent to the excavation area for future off-site disposal.

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



Page 2 of 7

## SITE OBSERVATION REPORT

## **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	Hal 1.5/2.5	ndustries, Inc. edon, NJ 5-inch Virgin Stone	J Haledon, NJ		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	28	560	95	1,900

Material Export Summary (2 of 3)						
Facility Name Location Type of Material	Middlesex County Landfill East Brunswick, NJ Non-hazardous Soil/Fill		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

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



Page 3 of 7

# SITE OBSERVATION REPORT

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

## <u>Sampling</u>

•	No	samples	were	collected.
---	----	---------	------	------------

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



Page 4 of 7

#### 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, 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 7:03am to 5:00pm. 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 ranged from 0.00 to 0.02 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	0.008	0.00	0.02
PM-2	0.007	0.00	0.01
PM-3	0.007	0.00	0.01
PM-4	0.007	0.00	0.02
WZ-1	0.006	0.00	0.00
WZ-2	0.006	0.00	0.00
WZ-3	0.006	0.00	0.01
WZ-4	0.007	0.00	0.01

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

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.014	0.03	0.15
PM-2	0.013	0.00	0.04
PM-3	0.011	0.02	0.07
PM-4	0.010	0.01	0.05
WZ-1	0.009	0.03	0.01
WZ-2	0.011	0.02	0.01
WZ-3	0.008	0.01	0.02
WZ-4	0.025	0.01	0.04

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

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



Page 5 of 7

#### 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 0.17 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 6:38am to 5:15pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from about 6:41am to 5:19pm.
- CAMP station WZ-3 was placed on the eastern sidewalk of Peck Slip from about 6:46am to 5:34pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from about 6:49am to 5:26pm.

#### 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 5:00pm and 5:06pm.

- 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**

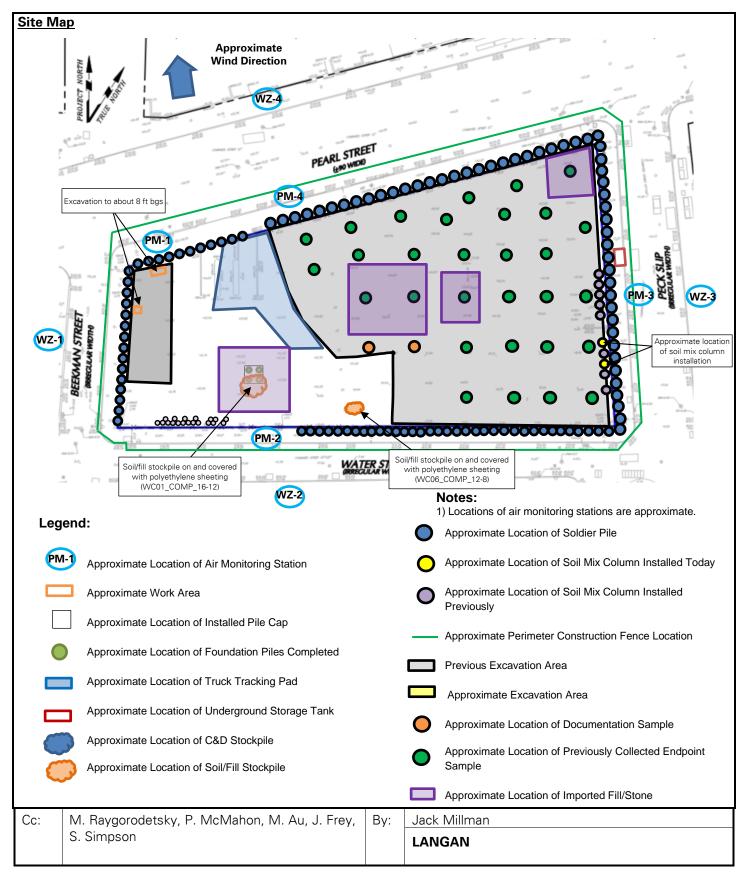
- ECD will continue exporting C&D and soil/fill from the western part of the site for off-site disposal.
- ECD will continue installing soil mix columns and/or soldier piles for SOE installation along Pearl Street and Peck Slip.

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



Page 6 of 7

#### SITE OBSERVATION REPORT





Page 7 of 7

## **SITE OBSERVATION REPORT**

## **Select Site Photographs:**



**Photo 1:** Timber lagging installed along the northern perimeter of the site (facing northwest)



Photo 2: ECD installing a soil mix column in the eastern part of the site (facing southeast)

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