

### SITE OBSERVATION REPORT

**PROJECT No.:** 170381202

CLIENT:

DATE: Wednesday, August 23, 2023

PROJECT:

250 Water Street

LLC **WEATHER:** 

c/o The Howard

Sunny, 65 – 80° F

Wind: WSW @ 0.2 – 2.2 mph

LOCATION: New York, NY TIME:

5:45am - 4:45pm

**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 BG45 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** 

**Day 188** Langan (Environmental/Geotechnical) Jack Millman, Michael Cole,

Pepper Greenley, Anastassios Balaouras

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) Rafi Alam

Earth Efficient (Soil Broker) Yinette Batista and Michael DiGaetano

### **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 two about 5-foot-long by 5-foot-wide areas to a maximum depth of about 4 feet below grade surface (bgs) in the eastern part of the site to create a temporary containment area for excess grout generated from support of excavation (SOE) installation along the eastern boundary of the site (along Peck Slip).
  - Excavated soil/fill was temporarily stockpiled adjacent to the work area and 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 into the adjacent area.
- ECD used a Bauer BG45 drill rig to install a deep soil mix column for 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 about 75 feet bgs.
  - No drilling spoils were generated during installation of the soil mix column.
  - 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 used an ABI Mobilram drill rig to install three soldier piles to a depth of about 35 feet bgs for SOE installation in the northern part of the site (along Pearl 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.
  - No drilling spoils were generated during installation of the soldier piles.

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



Page 2 of 7

#### SITE OBSERVATION REPORT

- Excess grout was contained within a temporary trench adjacent to the drilling area and will be managed as C&D debris at a later date.
- ECD relocated a section of the perimeter construction fencing along Water Street for equipment staging in the southern part of the site.

#### **Material Tracking**

- ECD exported one truckload (about 20 cubic yards [CY]) of non-hazardous soil/fill from waste characterization cells WC01, WC02, and WC03 for off-site disposal at the Middlesex County Landfill, located in East Brunswick, NJ.
- No material was imported to the site.

	Material Import Summary							
Facility Name Location Type of Material	Location 1 5/2 5-inch Virgin		Stone Industries, Inc. Haledon, NJ 0.75-inch Virgin Stone		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	n Construction & Demolition		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	15	300	95	1,900

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 (2 of 3)							
Facility Name Middlesex County Landfill Location East Brunswick, NJ Type of Material Non-hazardous Soil/Fill		n East Brunswick, NJ Keasbey, NJ			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	1	20	0	0	0	0	
Project Total	264	5,280	267	5,340	66	1,320	

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

# **Sampling**

• 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 6:50am to 3:43pm. 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	0.004	0.00	0.01
PM-2	0.005	0.00	0.00
PM-3	0.003	0.00	0.00
PM-4	0.004	0.00	0.01
WZ-1	0.003	0.00	0.00
WZ-2	0.004	0.00	0.00
WZ-3	0.004	0.00	0.00
WZ-4	0.004	0.01	0.02

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

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.017	0.01	0.02
PM-2	0.009	0.02	0.02
PM-3	0.004	0.00	0.01
PM-4	0.006	0.00	0.03
WZ-1	0.008	0.00	0.00
WZ-2	0.006	0.00	0.01
WZ-3	0.008	0.06	0.01
WZ-4	0.009	0.19	* 0.53

<sup>•</sup>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

<sup>\*</sup> Two consecutive mercury vapor readings were recorded at 3.86 µg/m³ and 3.88 µg/m³ at off-site CAMP station WZ-4 (located at an upgradient wind direction from the site) between 11:27am and 11:28am. The detections



Page 5 of 7

#### SITE OBSERVATION REPORT

occurred during soil mix column installation in the eastern part of the site (Peck Slip) and no on-site source of mercury vapor was detected at the on-site CAMP stations. The 15-minute time-weighted-average (TWA) action level of 1.00 µg/m³ was not exceeded as a result of the off-site mercury vapor detections. The filter on the Jerome® J505 unit within off-site CAMP station WZ-4 was replaced.

### 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 0.15 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 6:31am to 3:58pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from about 6:34am to 4:03pm.
- CAMP station WZ-3 was placed on the eastern sidewalk of Peck Slip from about 6:36am to 4:12pm
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from about 6:39am to 4:21pm.

#### 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 3:43pm and 3:51pm.

- 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**

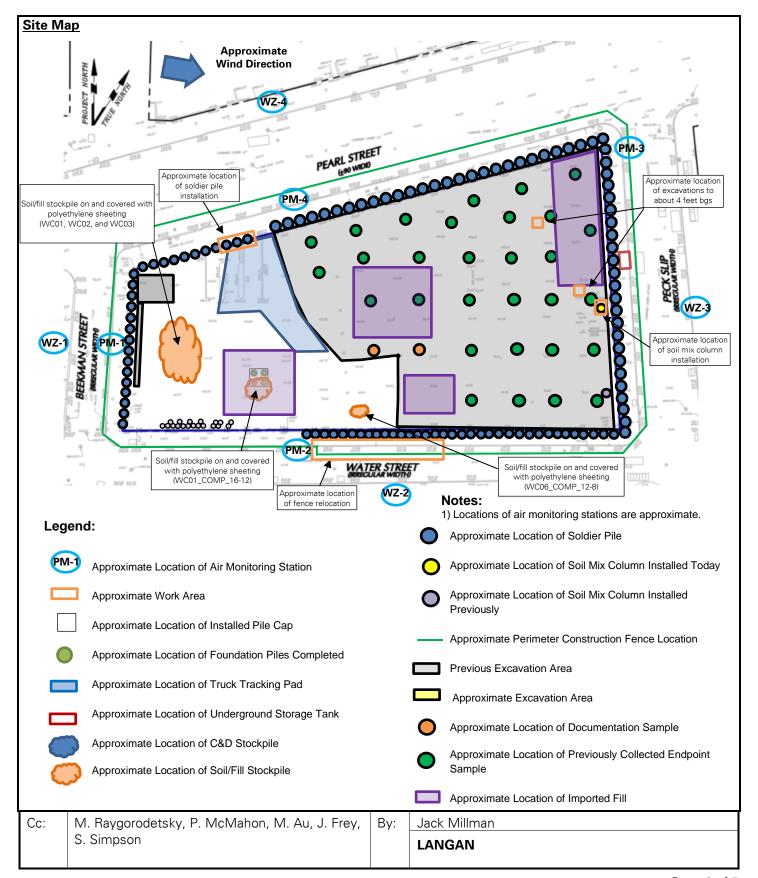
- ECD will continue exporting C&D and soil/fill from the western part of the site for off-site disposal.
- ECD will continue installing soil mix columns and/or soldier piles for SOE installation along Pearl Street and Peck Slip.
- ECD will continue relocating the perimeter construction fencing along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

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:**

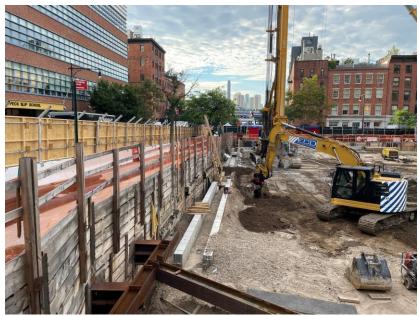


Photo 1: ECD exacavting soil/fill in the eastern part of the site (facing south)



Photo 2: ECD installing a soldier pile in the northern part of the site (facing west)

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