

SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

DATE: Tuesday, March 28, 2023

PROJECT:

250 Water Street

250 Seaport District. LLC

WEATHER:

Overcast/Sunny, 43 – 52 °F

c/o The Howard Hughes Corporation

Wind: ENE @ 0 – 4.5 mph

LOCATION: New York, NY

TIME:

6:15 am - 3:15 pm

BCP SITE ID: C231127 MONITOR Caroline Devin

EQUIPMENT:

CME75 Truck-Mounted Drill Ria Jerome J505

RKI GX-6000 Photoionization Detector Aeroqual ASQ1 Particulate and VOC

Monitors

PRESENT AT SITE:

Day 137

Langan (Environmental) Caroline Devin, Ali Reach, Paul McMahon Suffolk Construction (General Contractor) Anthony Galu

East Coast Drilling (Foundation Contractor)

Craig Geotechnical Drilling Co., Inc. (Geotechnical Drilling Contractor)

Sean Cleary, Keith Parent

New York State Department of Environmental Conservation

(NYSDEC) Rafi Alam

Hylan Datacom & Electrical, LLC (New York City Department of Transportation [NYCDOT] Contractor) Andrew Ross, Luis Rivera Jr.

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

- Craig Geotechnical Drilling Co., Inc. (Craig) used a CME75 truck-mounted drill rig to advance one geotechnical soil boring along the western (Beekman Street) boundary of the site. The geotechnical boring was advanced to about 150 feet below grade surface (bgs), which was the apparent bedrock depth based on observations from Craig, using mud-rotary drilling techniques.
 - o Drilling spoils generated from drilling activities were containerized in a sealed and labeled United Nations/Department of Transportation (UN/DOT)-approved drum, which was staged in the western part of the site for future sampling and off-site disposal at a later date.
- Hylan Datacom & Electrical, LLC (Hylan), on behalf of the NYCDOT, used hand tools to excavate an about 4foot-wide trench to the northwest of the site (off-site, within the perimeter construction fencing at the corner of Beekman Street and Pearl Street) for upgrade of city-wide telecommunications infrastructure. Excavated soil/fill was temporarily stockpiled adjacent to the work area prior to backfill into the initial location at the end of the work day.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



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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 Location Type of Material	Hal 1.5/2.	ndustries, Inc. ledon, NJ 5-inch Virgin Stone	Haled 0.75-ind	ustries, Inc. on, NJ h Virgin one	Impact Reuse & Recovery Center or Impact Materials Jersey City, Lyndhurst/Jersey City, NJ 1.5-inch Clean Bluestone		Recovery Center, y,	
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	8	184.42	0	0	15	339.65	336	8,216.79
NYSDEC Approved:	1,800 tons*		720 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 2)										
Facility Name Location Type of Material	Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320			

	Material Export Summary (2 of 2)										
Facility Name Location Type of Material	East Bru	County Landfill Inswick, NJ rdous Soil/Fill	Keas	re Soil Management Clean Earth of Carteret, Keasbey, NJ Carteret, NJ um-Impacted Soil/Fill Non-hazardous Soil/F							
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	261	5,220	267	5,340	66	1,320					

Sampling

No samples were collected.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



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SITE OBSERVATION REPORT

CAMP Activities

Langan performed air monitoring at the perimeter of the site and across Beekman Street at seven total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10), during ground-intrusive activities. 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 μ g/m³, 5.0 parts per million [ppm], and 0.100 mg/m³ respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 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	0.0	0.01
PM-2	0.004	0.0	0.01
PM-3	0.003	0.0	0.01
PM-4	0.003	0.0	0.01
PM-5	0.003	0.0	0.01
PM-6	0.005	0.0	0.01
WZ-1	0.004	0.0	0.01

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)				
PM-1	0.011	0.0	0.06				
PM-2	0.012	0.0	0.07				
PM-3	0.012	0.0	0.02				
PM-4	0.012	0.0	0.02				
PM-5	0.011	0.0	0.07				
PM-6	0.013	0.0	0.02				
WZ-1	0.008	0.0	0.03				

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

Equipment Troubleshooting

• Mercury vapor was not recorded at perimeter CAMP station PM-4 from 11:58am to 2:15pm due to a data logging issue with the Jerome® J505 unit. The Jerome® J505 remained operational and screening results were monitored for the remainder of the work day. Mercury vapor was not identified at concentrations above background conditions during this time.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
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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 0.09 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 work day.

Off-Site CAMP Station Relocation

• CAMP station WZ-1 was relocated to the western sidewalk of Beekman Street from 7:49am to 2:14pm during advancement of a geotechnical boring in the southwestern part of the site.

Prior to CAMP Shutdown

Prior to discontinuing CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued sequentially between 2:05pm and 2:15pm at the conclusion of ground-intrusive activities.

- 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

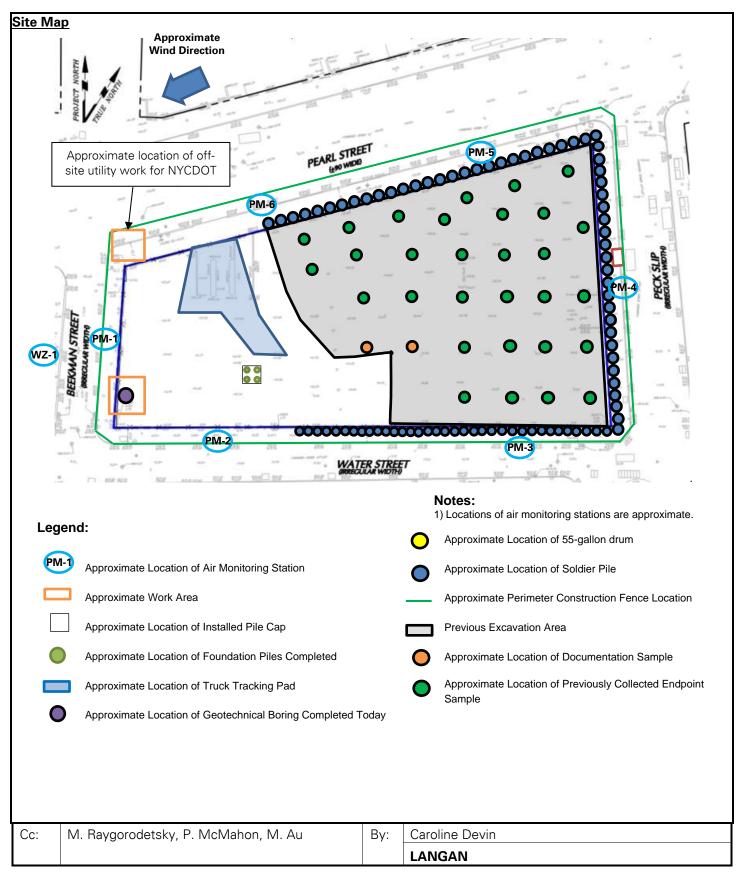
- Craig will continue advancing geotechnical borings along the perimeter of the site.
- Langan will begin advancement of soil borings in the southwestern part of the site for waste characterization soil sampling to facilitate future off-site disposal of excavated soil/fill.

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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: Craig preparing to advance a geotechnical boring in the southwestern part of the site (facing east)



Photo 2: ECD washing a vehicle on the tracking pad prior to exiting the site (facing southwest)

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Day 138



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

DATE: Wednesday, March 29, 2023

PROJECT:

LOCATION:

250 Water Street

New York, NY

250 Seaport District, LLC

Overcast/Sunny, 39 – 54 °F

c/o The Howard Hughes

WEATHER:

TIME:

Wind: E@ 0 - 4.5 mph

Corporation

6:00 am - 5:30 pm

BCP SITE ID: C231127 MONITOR Caroline Devin

EQUIPMENT:

CME75 Truck-Mounted Drill Rig Geoprobe Direct-Push Drill Rig

Jerome J505

RKI GX-6000 Photoionization Detector Aeroqual ASQ1 Particulate and VOC Monitors

PRESENT AT SITE:

Langan (Environmental) Caroline Devin. Ali Reach

Suffolk Construction (General Contractor) Anthony Galu

East Coast Drilling (Foundation Contractor)

Craig Geotechnical Drilling Co., Inc. (Geotechnical Drilling Contractor) Sean Cleary, Keith Parent

New York State Department of Environmental Conservation (NYSDEC) Rafi Alam

Lakewood Environmental Services Corp. (Lakewood) (Environmental

Drilling Contractor) Michael Kolasinski

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

- Craig Geotechnical Drilling Co., Inc. (Craig) used a CME75 truck-mounted drill rig to advance one geotechnical soil boring along the western boundary of the site (Beekman Street). The geotechnical boring was advanced to about 154 feet below grade surface (bgs), which was the apparent bedrock depth based on observations from Craig, using mud-rotary drilling techniques.
 - o Drilling spoils generated from drilling activities were containerized in a sealed and labeled United Nations/Department of Transportation (UN/DOT)-approved drum, which was staged in the northern part of the site for future sampling and off-site disposal at a later date.
- Lakewood used a Geoprobe® direct-push drill rig with 4-foot-long Macro-Core® samplers to advance nine soil borings to determine the extents of previously identified hazardous lead-impacted soil/fill and to facilitate offsite disposal of soil/fill in the western part of the site (towards Beekman Street). Langan observed and documented the work, screened the soil samples for environmental impacts, and collected soil samples:
 - Soil borings WC03AR, WC03A S1, WC03A N1, and WC03A NE2A were advanced to depths between 12 and 16 feet bgs. Material was screened for odors, staining, organic vapors using a photoionization detector (PID), and mercury vapor using the handheld Jerome® J505 unit. No evidence odors, staining, or instrumental evidence of contamination was recorded.
 - Soil borings WC03C NW1 and WC03C SW1 were advanced to a depth of about 12 feet bgs. Material was screened for odors, staining, organic vapors using a PID and mercury vapor using the handheld Jerome® J505 unit. No evidence of odors, staining, or instrumental evidence of contamination was recorded.
 - Soil borings WC11N, WC11SW, and WC11SW2 were advanced to a depth of about 16 feet bgs. Material was screened for odors, staining, organic vapors using a PID and mercury vapor using the handheld

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SITE OBSERVATION REPORT

Jerome® J505 unit. No evidence of odors, staining, or instrumental evidence of contamination was recorded.

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 1.5/2.5-inch Virgin Stone		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		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	8	184.42	0	0	15	339.65	336	8,216.79		
NYSDEC Approved:	1,800 tons*			72	0 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 2)									
Facility Name Location Type of Material	Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320	

Material Export Summary (2 of 2)										
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	261	5,220	267	5,340	66	1,320				

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
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SITE OBSERVATION REPORT

Sampling

- Langan collected three grab soil samples and one composite soil sample for laboratory analysis of total and toxicity characteristic leaching procedure (TCLP) lead:
 - WC03A_NE2A_4-2
- WC11N_10-12
- WC11SW_10-12
- WC11SW2_COMP_0-10
- An additional 20 grab soil samples were collected and placed on hold with the laboratory for potential analysis of total and TCLP lead, pending receipt of the initial laboratory report.
- Samples were relinquished to Alpha Analytical Inc., an Environmental Laboratory Accredited Program (ELAP)-certified laboratory under standard chain-of-custody protocols.

Cc: M. Raygorodetsky, P. McMahon, M. Au By: Caroline Devin

LANGAN



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SITE OBSERVATION REPORT

CAMP Activities

Langan performed air monitoring at the perimeter of the site and across Beekman Street at seven total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10), during ground-intrusive activities. 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 μ g/m³, 5.0 parts per million [ppm], and 0.100 mg/m³ respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 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	0.005	0.0	0.00
PM-2	0.003	0.0	0.00
PM-3	0.003	0.0	0.01
PM-4	0.003	0.0	0.01
PM-5	0.003	0.0	0.00
PM-6	0.003	0.0	0.00
WZ-1	0.004	0.0	0.01

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.010	0.0	0.05
PM-2	0.005	0.0	0.02
PM-3	0.005	0.0	0.03
PM-4	0.004	0.0	0.02
PM-5	0.004	0.0	0.02
PM-6	0.005	0.0	0.02
WZ-1	0.009	0.0	0.02

[•]mg/m³ = milligrams per cubic meter •ppm = parts per million • μ g/m³ = micrograms per cubic meter

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 0.07 µg/m³.

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SITE OBSERVATION REPORT

• 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 work day.

Off-Site CAMP Station Relocation

• CAMP station WZ-1 was relocated to the western sidewalk of Beekman Street from 7:40am to 2:55pm during advancement of geotechnical and environmental soil borings in the western part of the site.

Prior to CAMP Shutdown

Prior to discontinuing CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued sequentially between 2:42pm and 2:55pm at the conclusion of ground-intrusive activities.

- Background concentrations of mercury vapor at each CAMP station were recorded at 0.00 to 0.03 µg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Anticipated Activities

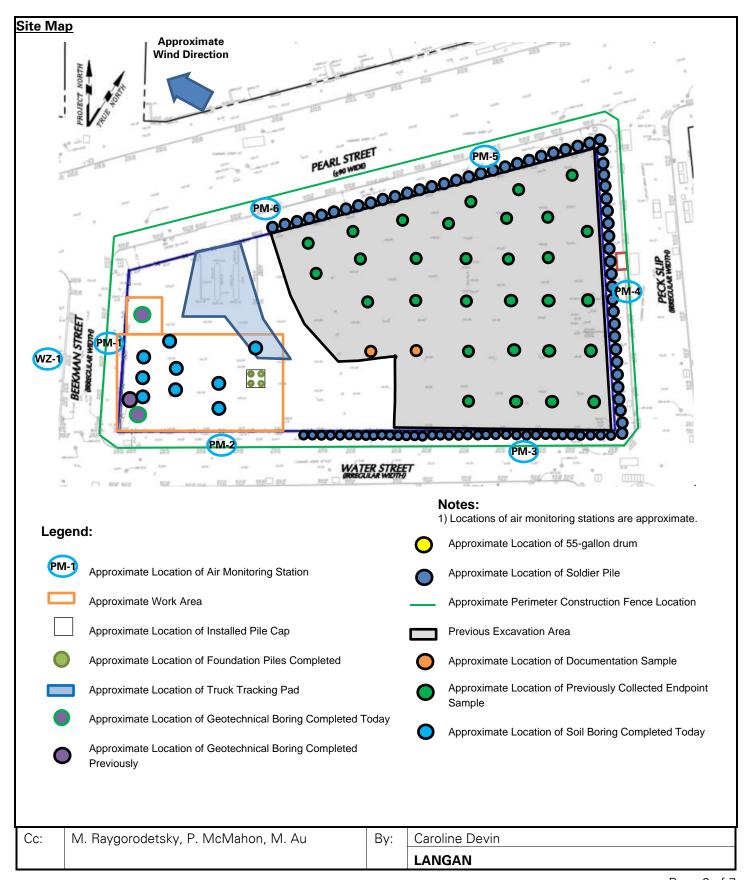
- Craig will continue advancing geotechnical borings along the perimeter of the site.
- Langan will continue advancement of soil borings in the southwestern part of the site for waste characterization soil sampling to facilitate future off-site disposal of excavated soil/fill.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: Craig advancing a geotechnical boring in the western part of the site (facing west)



Photo 2: Lakewood advancing a soil boring in the southwestern part of the site (facing east)

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN

Day 139



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

Corporation

DATE: Thursday, March 30, 2023

PROJECT:

250 Water Street

Overcast/Sunny, 39 - 54 °F

LLC c/o The Howard Hughes

WEATHER: Wind: E @ 0 - 4.5 mph

LOCATION: New York, NY

TIME: 6:00 am - 3:00 pm

BCP SITE ID: C231127 **MONITOR** Caroline Devin

EQUIPMENT:

CME75 Truck-Mounted Drill Ria CME75 Track-Mounted Drill Rig Geoprobe Direct-Push Drill Rig Jerome J505

RKI GX-6000 Photoionization Detector Aeroqual ASQ1 Particulate and VOC Monitors

PRESENT AT SITE:

250 Seaport District,

Langan (Environmental) Caroline Devin, Maitland Robinson Suffolk Construction (General Contractor) Anthony Galu

East Coast Drilling (Foundation Contractor)

Craig Geotechnical Drilling Co., Inc. (Geotechnical Drilling Contractor)

Sean Cleary, Keith Parent, Matthew Michelotti, Bryan Gregor **New York State Department of Environmental Conservation**

(NYSDEC) Rafi Alam

Lakewood Environmental Services Corp. (Lakewood) (Environmental

Drilling Contractor) Michael Kolasinski

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

- Craig Geotechnical Drilling Co., Inc. (Craig) used a CME75 truck-mounted drill rig to continue advancement of one geotechnical boring along the western boundary of the site (Beekman Street) and to begin advancement of one geotechnical boring along the southern boundary of the site (Water Street). The geotechnical borings were advanced using mud-rotary drilling techniques to about 160 feet and 140 feet below grade surface (bgs), respectively, which was the apparent bedrock depth based on observations from Craig.
 - o Drilling spoils were containerized in sealed and labeled United Nations/Department of Transportation (UN/DOT)-approved drums, which were staged in the northern part of the site for future sampling and off-site disposal at a later date.
- Craig used a CME75 track-mounted drill rig to advance one geotechnical soil boring along the southern boundary of the site (Water Street). The geotechnical boring was advanced to about 124 feet bgs, which was the apparent bedrock depth based on observations from Craig, using mud-rotary drilling techniques.
 - o Drilling spoils were containerized in a sealed and labeled UN/DOT-approved drum, which was staged in the northern part of the site for future sampling and off-site disposal at a later date.
- Lakewood used a Geoprobe® direct-push drill rig with 4-foot-long Macro-Core® samplers to advance seven soil borings to determine the extents of previously identified hazardous lead-impacted soil/fill and to facilitate offsite disposal of soil/fill in the western part of the site (towards Beekman Street). Langan observed and documented the work, screened the soil samples for environmental impacts, and collected soil samples:
 - Soil borings WC03A_N2 and WC03A_N3 were advanced to a depth of about 8 feet bgs. Material was screened for odors, staining, organic vapors using a photoionization detector (PID) and mercury vapor using the handheld Jerome® J505 unit. No evidence of odors, staining, or instrumental evidence of contamination was recorded.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



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SITE OBSERVATION REPORT

Soil borings WC03A_N4, WC03A_N5, WC03A_NE2B, WC03A_NE3, and WC03A_NE3A were advanced to a depth of about 16 feet bgs. Material was screened for odors, staining, organic vapors using a PID and mercury vapor using the handheld Jerome® J505 unit. No evidence of odors, staining, or instrumental evidence of contamination was recorded.

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.	ndustries, Inc. ledon, NJ 5-inch Virgin Stone	Haled 0.75-ind	ustries, Inc. on, NJ h Virgin one	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	8	184.42	0	0	15	339.65	336	8,216.79		
NYSDEC Approved:	1,800 tons*			720 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 2)									
Facility Name Location Type of Material	Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320	

Material Export Summary (2 of 2)										
Facility Name Location Type of Material	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	No. of Loads Approx. Volume (CY)		Approx. Volume (CY)				
Today	0	0	0	0	0	0				
Project Total	261	5,220	267	5,340	66	1,320				

Cc:	M. Raygorodetsky, P. McMahon, M. Au	By:	Caroline Devin
			LANGAN



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SITE OBSERVATION REPORT

Sampling Langan collected two grab soil samples for laboratory analysis of total and toxicity characteristic leaching procedure (TCLP) lead: • WC03A_N4_4-2 WC03A_NE3_4-2 An additional 32 grab soil samples were collected and placed on hold with the laboratory for potential analysis of total and TCLP lead, pending receipt of the initial laboratory report. Samples were relinquished to Alpha Analytical Inc., an Environmental Laboratory Accredited Program (ELAP)certified laboratory under standard chain-of-custody protocols. Cc: M. Raygorodetsky, P. McMahon, M. Au By: Caroline Devin

LANGAN



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SITE OBSERVATION REPORT

CAMP Activities

Langan performed air monitoring at the perimeter of the site and across Beekman and Water Streets at eight total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10), during ground-intrusive activities. 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 μ g/m³, 5.0 parts per million [ppm], and 0.100 mg/m³ respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 ranged from 0.00 to 0.03 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	0.005	0.0	0.01
PM-2	0.003	0.0	0.01
PM-3	0.003	0.0	0.01
PM-4	0.002	0.0	0.00
PM-5	0.002	0.0	0.00
PM-6	0.003	0.0	0.00
WZ-1	0.002	0.0	0.01
WZ-2	0.004	0.0	0.01

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.012	0.0	0.02
PM-2	0.005	0.0	0.03
PM-3	0.003	0.0	0.03
PM-4	0.003	0.0	0.02
PM-5	0.002	0.0	0.05
PM-6	0.003	0.0	0.05
WZ-1	0.002	0.0	0.02
WZ-2	0.006	0.0	0.02

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

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 0.07 µg/m³.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



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SITE OBSERVATION REPORT

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 work day.

Off-Site CAMP Station Relocation

- CAMP station WZ-1 was relocated to the southern sidewalk of Water Street from 7:36am to 1:33pm during advancement of geotechnical soil borings in the southern part of the site.
- CAMP station WZ-2 was relocated to the western sidewalk of Beekman Street from 7:14am to 1:24pm during advancement of geotechnical and environmental soil borings in the western part of the site.

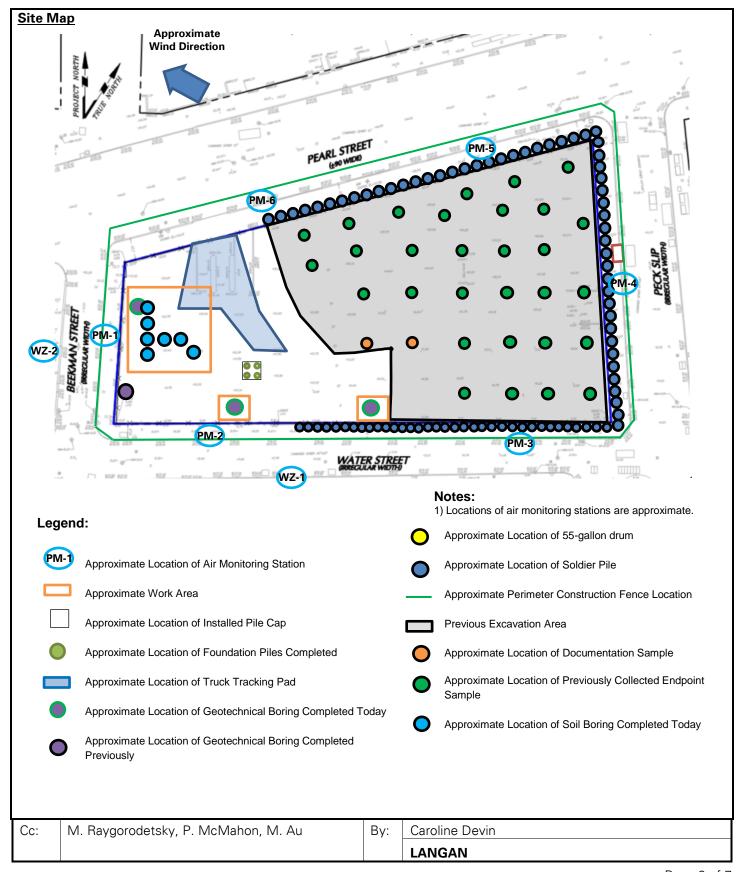
Prior to CAMP Shutdown

Prior to discontinuing CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: Craig advancing a geotechnical boring in the northwestern part of the site (facing northeast)

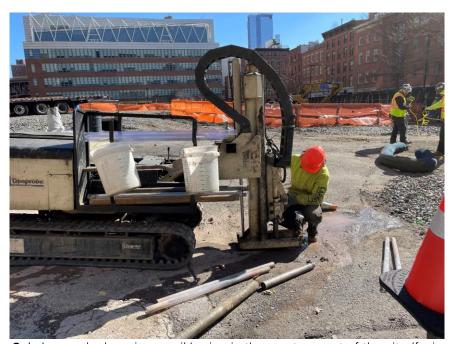


Photo 2: Lakewood advancing a soil boring in the western part of the site (facing east)

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN

Day 140



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

Corporation

LLC

250 Seaport District,

c/o The Howard Hughes

DATE: Friday, March 31, 2023

PROJECT:

250 Water Street

Overcast, 41-52 °F

WEATHER:

Wind: ESE @ 0 - 4.5 mph

LOCATION:

New York, NY

TIME:

6:00 am - 3:00 pm

BCP SITE ID: C231127 MONITOR

Caroline Devin

EQUIPMENT:

Monitors

CME75 Truck-Mounted Drill Ria CME75 Track-Mounted Drill Rig Jerome J505

RKI GX-6000 Photoionization Detector Aeroqual ASQ1 Particulate and VOC **Langan** (Environmental) Caroline Devin

Suffolk Construction (General Contractor) Anthony Galu

East Coast Drilling (Foundation Contractor)

Craig Geotechnical Drilling Co., Inc. (Geotechnical Drilling Contractor) Sean Cleary, Keith Parent, Matthew Michelotti, Bryan Gregor

New York State Department of Environmental Conservation

(NYSDEC) Rafi Alam

PRESENT AT SITE:

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

- Craig Geotechnical Drilling Co., Inc. (Craig) used a CME75 truck-mounted drill rig to advance one geotechnical soil boring along the northern boundary of the site (Pearl Street). The geotechnical boring was advanced to about 138 feet below grade surface (bgs), which was the apparent bedrock depth based on observations from Craig, using mud-rotary drilling techniques.
 - o Drilling spoils were containerized in a sealed and labeled United Nations/Department of Transportation (UN/DOT)-approved drums, which was staged in the northern part of the site for future sampling and off-site disposal at a later date.
- Craig used a CME75 track-mounted drill rig to advance one geotechnical soil boring along the southern boundary of the site (Water Street). The geotechnical boring was advanced to about 114 feet bgs, which was the apparent bedrock depth based on observations from Craig, using mud-rotary drilling techniques.
 - o Drilling spoils were containerized in a sealed and labeled UN/DOT-approved drum, which was staged in the northern part of the site for future sampling and off-site disposal at a later date.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



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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 Location Type of Material	Haledon, NJ Ha		Haled 0.75-ind	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 Volume No. of Appro		Approx. Volume (Tons)	No. of Loads	Approx. Volume (Tons)			
Today	0	0	0	0	0	0	0	0		
Project Total	Project Total 8 184.42 0 0		0	15	339.65	336	8,216.79			
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 2)								
Facility Name Location Type of Material Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320	

Material Export Summary (2 of 2)								
Facility Name Location Type of Material	ion East Brunswick, NJ			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	261	5,220	267	5,340	66	1,320		

<u>Sampling</u>

No samples were collected.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



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SITE OBSERVATION REPORT

CAMP Activities

Langan performed air monitoring at the perimeter of the site and across Pearl and Water Streets at eight total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10), during ground-intrusive activities. 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 μ g/m³, 5.0 parts per million [ppm], and 0.100 mg/m³ respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 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	0.0	0.00
PM-2	0.008	0.0	0.01
PM-3	0.008	0.0	0.01
PM-4	0.007	0.0	0.00
PM-5	0.007	0.0	0.00
PM-6	0.008	0.0	0.00
WZ-1	0.007	0.0	0.01
WZ-2	0.007	0.0	0.01

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.017	0.0	0.01
PM-2	0.012	0.0	0.02
PM-3	0.013	0.0	0.03
PM-4	0.008	0.0	0.01
PM-5	0.008	0.0	0.02
PM-6	0.016	0.0	0.02
WZ-1	0.011	0.0	0.03
WZ-2	0.009	0.0	0.05

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

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 0.10 µg/m³.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



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SITE OBSERVATION REPORT

 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.

Equipment Troubleshooting

- PM10 concentrations were not recorded at perimeter CAMP station PM-6 between 10:40am and 10:41am and at off-site CAMP station WZ-2 between 8:12am and 8:13am, and at 8:50am due to an automatic zero-calibration function being run within each respective station. Data logging resumed following completion of the automatic calibration. Fugitive dust was not observed migrating from the site during this time.
- VOC concentrations were not recorded at off-site CAMP station WZ-2 between 8:12am and 8:14am, and 8:50am and 8:51am due to an automatic zero-calibration function being run within the station. Data logging resumed following completion of the automatic calibration. Odors were not observed migrating from the site during this time.

Off-Site CAMP Station Relocation

- CAMP station WZ-1 was relocated to the northern sidewalk of Pearl Street from 8:57am to 1:08pm during advancement of geotechnical soil borings in the northern part of the site.
- CAMP station WZ-2 was relocated to the southern sidewalk of Water Street from 7:13am to 1:17pm during advancement of geotechnical soil borings in the southern part of the site.

Prior to CAMP Shutdown

Prior to discontinuing CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued sequentially between 12:47pm and 1:17pm at the conclusion of ground-intrusive activities.

- Background concentrations of mercury vapor at each CAMP station were recorded at 0.00 to 0.01 μg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Anticipated Activities

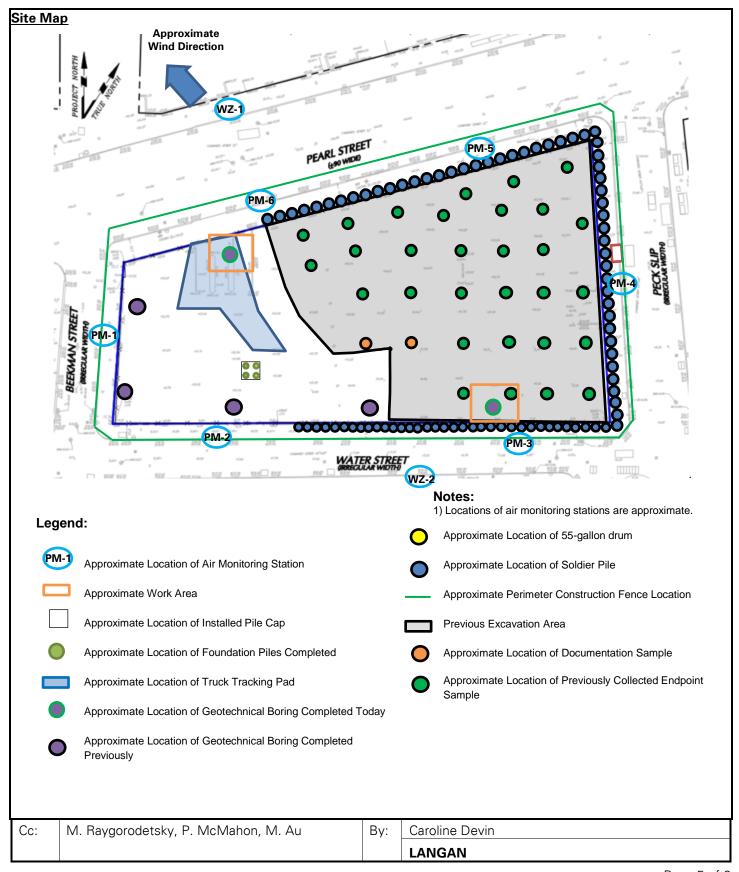
•	Craig will co	ontinue advanc	ing geotechnica	l borings along t	ne perimeter	of the site.
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Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: Craig advancing a geotechnical boring in the southeastern part of the site (facing east)



Photo 2: CAMP station PM-5 in the northern part of the site (facing northwest)

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN

Day 141



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

DATE: Monday, April 3, 2023

PROJECT:

250 Water Street

LLC

WEATHER:

Sunny, 39– 57 °F

c/o The Howard Hughes Corporation

Wind: ESE @ 0 - 4.5 mph

LOCATION: New York, NY

TIME: 6:10 am – 3:30 pm

BCP SITE ID: C231127

MONITOR Caroline Devin

EQUIPMENT:

CME75 Truck-Mounted Drill Rig CME75 Track-Mounted Drill Rig

Jerome J505

RKI GX-6000 Photoionization Detector Aeroqual ASQ1 Particulate and VOC Monitors PRESENT AT SITE:

250 Seaport District,

Langan (Environmental) Caroline Devin

Suffolk Construction (General Contractor) Anthony Galu

East Coast Drilling (Foundation Contractor)

Craig Geotechnical Drilling Co., Inc. (Geotechnical Drilling Contractor)

Sean Cleary, Keith Parent, Matthew Michelotti, Bryan Gregor

New York State Department of Environmental Conservation

(NYSDEC) Rafi Alam

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

- Craig Geotechnical Drilling Co., Inc. (Craig) used a CME75 truck-mounted drill rig to advance one geotechnical soil boring along the western boundary of the site (Beekman Street). The geotechnical boring was advanced to about 150 feet below grade surface (bgs), which was the apparent bedrock depth based on observations from Craig, using mud-rotary drilling techniques.
 - o Drilling spoils were containerized in a sealed and labeled United Nations/Department of Transportation (UN/DOT)-approved drum, which was staged in the northern part of the site for future sampling and off-site disposal at a later date.
- Craig used a CME75 track-mounted drill rig to advance a geotechnical soil boring along the eastern boundary
 of the site (Peck Slip). The geotechnical boring was advanced to about 102 feet bgs, which was the apparent
 bedrock depth based on observations from Craig, using mud-rotary drilling techniques. Craig also began
 advancement of a geotechnical soil boring along the northern boundary of the site (Pearl Street). The
 geotechnical boring was advanced to about 35 feet bgs and is anticipated to be completed tomorrow, March
 4, 2023.
 - o Drilling spoils were containerized in a sealed and labeled UN/DOT-approved drum, which was staged in the northern part of the site for future sampling and off-site disposal at a later date.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



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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 Location Type of Material	Hal 1.5/2.5	ndustries, Inc. ledon, NJ 5-inch Virgin Stone	Haled 0.75-inc	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		n, NJ Impact Materials Jersey City, Virgin Lyndhurst/Jersey City, NJ General Fill		Center, rst, NJ
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	8	184.42	0	0	15	339.65	336	8,216.79
NYSDEC Approved:	1,800 tons*			720 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 2)								
Facility Name Location Type of Material	Location Construction & Demolition		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320

Material Export Summary (2 of 2)								
Facility Name Location Type of Material	East Bru	County Landfill Inswick, NJ Irdous Soil/Fill	Keas	oil Management sbey, 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	261	5,220	267	5,340	66	1,320		

Sampling

• No samples were collected.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



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SITE OBSERVATION REPORT

CAMP Activities

Langan performed air monitoring at the perimeter of the site and across Beekman Street and Peck Slip at eight total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10), during ground-intrusive activities. 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 μ g/m³, 5.0 parts per million [ppm], and 0.100 mg/m³ respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 ranged from 0.00 to 0.04 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	0.0	0.03
PM-2	0.004	0.0	0.01
PM-3	0.004	0.0	0.01
PM-4	0.003	0.0	0.00
PM-5	0.003	0.0	0.01
PM-6	0.004	0.0	0.00
WZ-1	0.003	0.0	0.01
WZ-2	0.003	0.0	0.00

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.011	0.0	0.25*
PM-2	0.011	0.0	0.04
PM-3	0.006	0.0	0.03
PM-4	0.006	0.0	0.02
PM-5	0.006	0.0	0.02
PM-6	0.007	0.0	0.01
WZ-1	0.006	0.0	0.02
WZ-2	0.005	0.0	0.02

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

^{*} One instantaneous mercury vapor detection was recorded at a concentration of 3.66 µg/m³ at perimeter CAMP station PM-1 at 8:23am. The 15-minute time-weighted average concentration of mercury vapor (1.0 µg/m³) was not exceeded as a result of the instantaneous detection. During this time, Craig was in the process of drilling a geotechnical boring in the southwestern part of the site. Work was temporarily halted to investigate for a potential source of mercury vapor. Drilling spoils and nearby vehicle exhaust were screened for mercury

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



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SITE OBSERVATION REPORT

vapor using the handheld Jerome® J505 unit and concentrations ranged from 0.0 µg/m³ to 0.05 µg/m³. Additionally, mercury vapor was not detected at off-site CAMP station WZ-2 during this time and mercury vapor at perimeter CAMP station PM-1 was recorded at 0.0 µg/m³ for the 15-minute-period following the detection. No source of mercury vapor was identified and the detection was indicative of the internal filter within the Jerome® J505 unit requiring replacement. The internal filter within the Jerome® J505 unit at perimeter CAMP station PM-1 was replaced following completion of work for the day.

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 0.08 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 work day.

Equipment Troubleshooting

PM10 concentrations were not recorded at perimeter CAMP station PM-6 between 10:50am and 10:51am
due to an automatic zero-calibration function being run within the station. Data logging resumed following
completion of the automatic calibration. Fugitive dust was not observed migrating from the site during this
time.

Off-Site CAMP Station Relocation

- CAMP station WZ-1 was relocated to the eastern sidewalk of Peck Slip from 7:23am to 11:18am during advancement of a geotechnical soil boring in the eastern part of the site.
- CAMP station WZ-2 was relocated to the western sidewalk of Beekman Street from 7:43am to 11:30am during advancement of a geotechnical soil boring in the western part of the site.

Prior to CAMP Shutdown

Prior to discontinuing CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued sequentially between 2:20pm and 2:30pm at the conclusion of ground-intrusive activities.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00 to 0.01 μg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Anticipated Activities

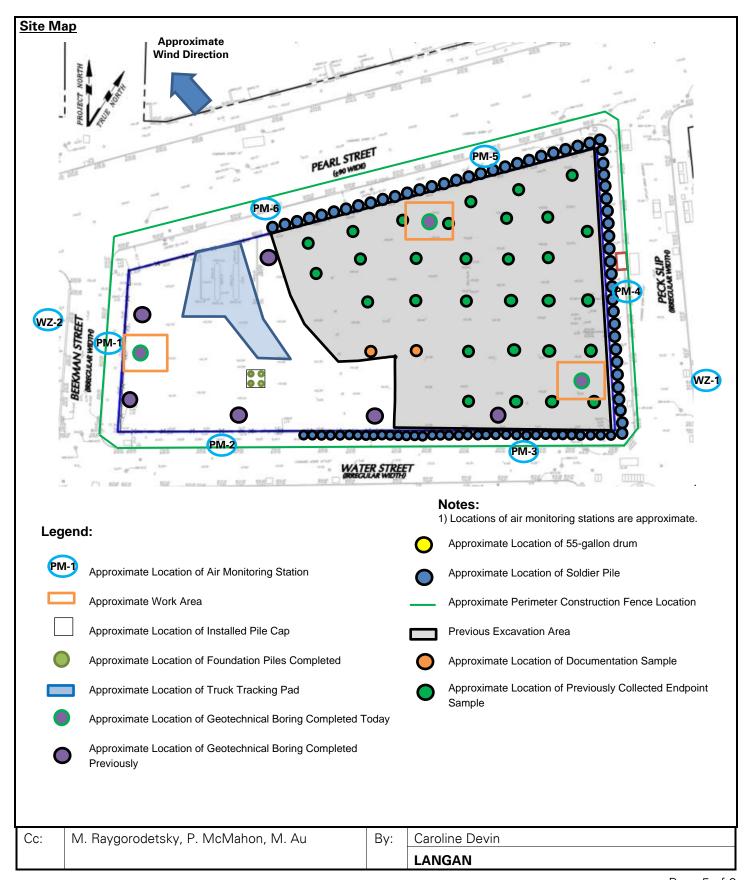
Craig will continue advancing geotechnical borings along the perimeter of the site.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



Page 5 of 6

SITE OBSERVATION REPORT





Langan PN: 170381202 Monday, April 3, 2023 Page 6 of 6

SITE OBSERVATION REPORT

Select Site Photographs:

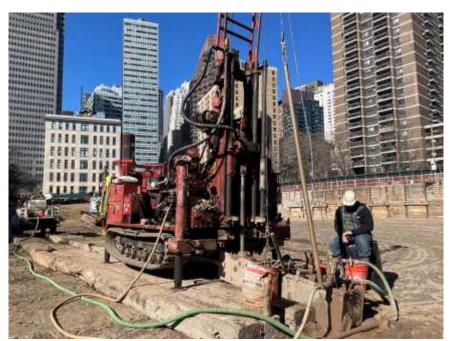


Photo 1: Craig advancing a geotechnical boring in the southeastern part of the site (facing northwest)

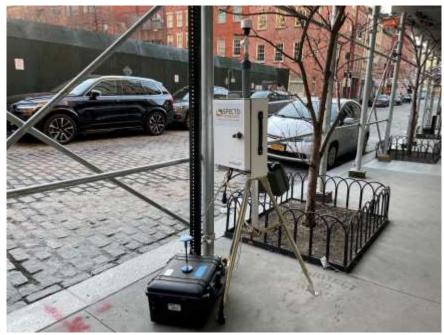


Photo 2: Off-site CAMP station WZ-2 placed on the western sidewalk of Beekman Street (facing southeast)

Cc:	M. Raygorodetsky, P. McMahon, M. Au	By:	Caroline Devin
			LANGAN

Day 142



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

DATE: Tuesday, April 4, 2023

PROJECT:

LOCATION:

250 Water Street

New York, NY

LLC

c/o The Howard Hughes WEATHER:

Corporation

Sunny, 48 – 72 °F

Wind: ESE @ 0 - 5 mph

TIME:

6:10 am - 3:30 pm

BCP SITE ID: C231127

MONITOR Caroline Devin

EQUIPMENT:

CME75 Track-Mounted Drill Rig

Jerome J505

RKI GX-6000 Photoionization Detector

Aeroqual ASQ1 Particulate and VOC

Monitors

PRESENT AT SITE:

250 Seaport District,

Langan (Environmental) Caroline Devin

Suffolk Construction (General Contractor) Anthony Galu

East Coast Drilling (Foundation Contractor)

Craig Geotechnical Drilling Co., Inc. (Geotechnical Drilling Contractor)

Matthew Michelotti, Bryan Gregor

New York State Department of Environmental Conservation

(NYSDEC) Rafi Alam

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

- Craig used a CME75 track-mounted drill rig to continue advancement of a geotechnical soil boring along the
 northern boundary of the site (Pearl Street). The geotechnical boring was advanced to about 104 feet below
 grade surface (bgs), which was the apparent bedrock depth based on observations from Craig, using mudrotary drilling techniques. Craig began advancement of an additional geotechnical soil boring in the
 northeastern part of the site. The geotechnical boring was advanced to about 30 feet bgs and is anticipated to
 be completed tomorrow, March 5, 2023.
 - o Drilling spoils were containerized in a sealed and labeled United Nations/Department of Transportation (UN/DOT)-approved drum, which was staged in the northern part of the site for future sampling and off-site disposal at a later date.
 - A petroleum-like odor and a maximum photoionization detector (PID) reading of 26 parts per million (ppm) was observed during screening of drilling spoils generated from the geotechnical soil boring in the northeastern part of the site. The odorous soil was containerized in a UN/DOT-approved drum. PID readings were not detected at perimeter CAMP stations and odors were not observed migrating off-site.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



Langan PN: 170381202 Tuesday, April 4, 2023

Page 2 of 6

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	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	8	184.42	0	0	15	339.65	336	8,216.79
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 2)								
Facility Name Location Type of Material	Construction & Demolition		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320

Material Export Summary (2 of 2)							
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	261	5,220	267	5,340	66	1,320	

<u>Sampling</u>

No samples were collected.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



Langan PN: 170381202 Tuesday, April 4, 2023

Page 3 of 6

SITE OBSERVATION REPORT

CAMP Activities

Langan performed air monitoring at the perimeter of the site at six total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10), during ground-intrusive activities. 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 µg/m³, 5.0 ppm, and 0.100 mg/m³, respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 ranged from 0.00 to 0.01 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	0.012	0.0	0.01
PM-2	0.013	0.0	0.01
PM-3	0.013	0.0	0.00
PM-4	0.013	0.0	0.01
PM-5	0.012	0.0	0.01
PM-6	0.007	0.0	0.01
WZ-1	-	-	-
WZ-2	-	-	-

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.022	0.0	0.02
PM-2	0.025	0.0	0.02
PM-3	0.024	0.0	0.02
PM-4	0.024	0.0	0.04
PM-5	0.023	0.0	0.02
PM-6	0.011	0.0	0.02
WZ-1	-	-	- -
WZ-2	-	-	-

[•]mg/ m^3 = milligrams per cubic meter •ppm = parts per million • μ g/ m^3 = micrograms per cubic meter

Equipment Troubleshooting

 PM10 and VOC concentrations were not recorded at perimeter CAMP station PM-6 from 6:35am and 11:20am due outdated software resulting in issues with the internal computer (which is responsible for data logging). Following identification of the issue, dust and odors were monitored by the dedicated CAMP monitor using visual and olfactory methods. The spare CAMP station was set up at the location of perimeter

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Caroline Devin
			LANGAN



Langan PN: 170381202 Tuesday, April 4, 2023

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SITE OBSERVATION REPORT

CAMP station PM-6 to monitor for PM10 and VOCs. The equipment rental company was notified and the station was replaced at the end of the workday. Fugitive dust or odors were not observed migrating off-site.

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 0.08 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 work day.

Prior to CAMP Shutdown

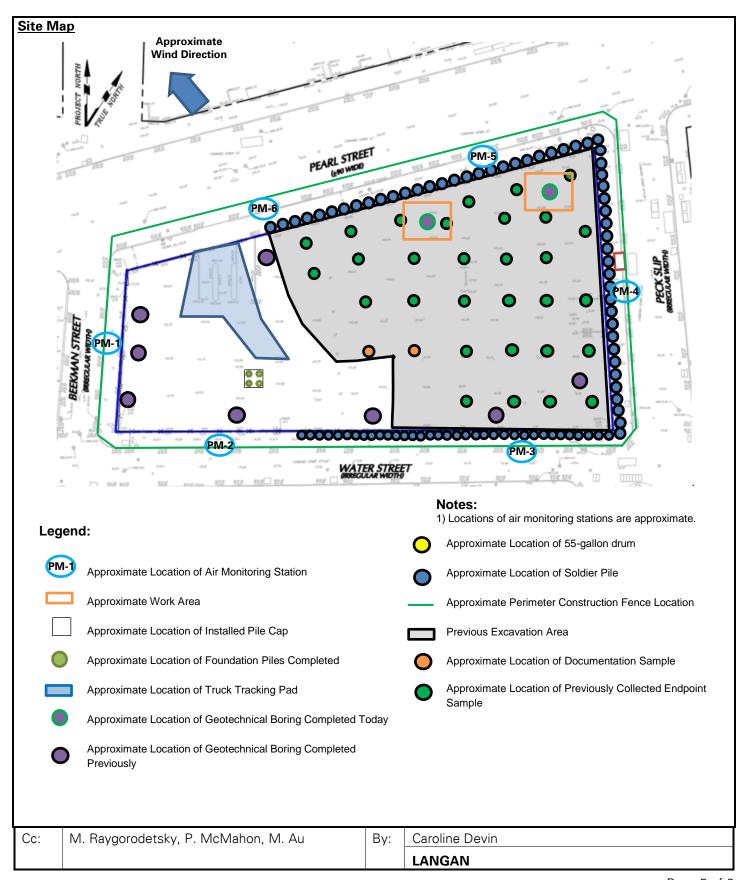
Prior to discontinuing CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued sequentially between 1:42pm and 1:55pm at the conclusion of ground-intrusive activities.

•	Background concentrations of mercury vapor at each CAMP station ranged from 0.00 to 0.01 μg/m³.					
•	Background concentrations of VOCs at each CAN	ЛР stat	ion were recorded at 0.0 ppm.			
Anticip	pated Activities					
•	Craig will continue advancing geotechnical boring	gs along	the perimeter of the site.			
Cc:	M. Raygorodetsky, P. McMahon, M. Au	By:	Caroline Devin			
1			LANGAN			



Langan PN: 170381202 Tuesday, April 4, 2023

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Langan PN: 170381202 Tuesday, April 4, 2023

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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: Craig advancing a geotechnical boring in the northern part of the site (facing northwest)

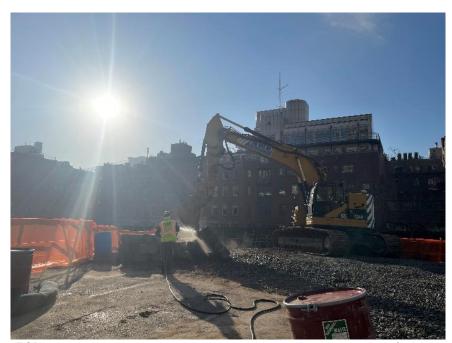


Photo 2: ECD spraying water across the site to mitigate dust generation (facing southeast)

Cc:	M. Raygorodetsky, P. McMahon, M. Au	By:	Caroline Devin
			LANGAN

Day 143



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

Corporation

LLC

DATE: Wednesday, April 5, 2023

PROJECT:

250 Water Street

Overcast, 48-52 °F

WEATHER: c/o The Howard Hughes

Wind: NNW @ 0 - 5 mph

LOCATION:

New York, NY

TIME:

6:00 am - 4:30 pm

BCP SITE ID:

C231127

MONITOR

Ali Reach

EQUIPMENT:

CME75 Track-Mounted Drill Rig

Jerome J505

RKI GX-6000 Photoionization Detector Aeroqual ASQ1 Particulate and VOC

Monitors

PRESENT AT SITE:

250 Seaport District,

Langan (Environmental) Ali Reach

Suffolk Construction (General Contractor) Anthony Galu

East Coast Drilling (Foundation Contractor)

Craig Geotechnical Drilling Co., Inc. (Geotechnical Drilling Contractor)

Matthew Michelotti, Bryan Gregor

New York State Department of Environmental Conservation

(NYSDEC) Rafi Alam

Earth Efficient (Soil Broker): Ethan Szerlip and Ryan Casserly

EnvoCare Environmental (EnvoCare): Matt Gandy

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

- Craig Geotechnical Drilling Co., Inc. (Craig) used a CME75 track-mounted drill rig to continue advancement of a geotechnical soil boring in the northeastern part of the site (Pearl Street and Peck Slip). The geotechnical boring was advanced to about 90 feet below grade surface (bgs), which was the apparent bedrock depth based on observations from Craig, using mud-rotary drilling techniques.
 - o Drilling spoils were containerized in a sealed and labeled United Nations/Department of Transportation (UN/DOT)-approved drum, which was staged in the northeastern part of the site for sampling and future off-site disposal at a later date.
- EnvoCare and EarthEfficient collected five waste characterization soil samples (each consisting of a composite and grab sample) from containerized drilling spoils to facilitate off-site disposal of soil generated during future support of excavation installation.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Ali Reach
			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	Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone		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	8	184.42	0	0	15	339.65	336	8,216.79
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 2)								
Facility Name Location Type of Material	Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320

Material Export Summary (2 of 2)							
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	261	5,220	267	5,340	66	1,320	

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Ali Reach
			LANGAN



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SITE OBSERVATION REPORT

<u>Sampling</u>

• EnvoCare collected five waste characterization soil samples (each consisting of a grab and composite sample) for laboratory analysis of target compound list (TCL) volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, herbicides, polychlorinated biphenyls (PCBs), target analyte list (TAL) metals, hexavalent chromium, total cyanide, toxicity characteristic leaching procedure (TCLP) metals, New Jersey Department of Environmental Protection (NJDEP) extractable petroleum hydrocarbons (EPH), Resource Conservation and Recovery Act (RCRA) characteristics, and/or paint filter:

- WC-1_COMP
- WC-1_GRAB
- WC-2_COMP
- WC-2_GRAB
- WC-3_COMP
- WC-3_GRAB
- WC-4_COMP
- WC-4_GRAB
- WC-5_COMP
- WC-5_GRAB

• Samples were transported to Alpha Analytical Inc., an Environmental Laboratory Accredited Program (ELAP)-certified laboratory by EnvoCare under standard chain-of-custody protocols.

Cc: M. Raygorodetsky, P. McMahon, M. Au By: Ali Reach

LANGAN



Page 4 of 7

SITE OBSERVATION REPORT

CAMP Activities

Langan performed air monitoring at the perimeter of the site at six total locations for mercury vapor, VOCs, and particulate matter less than 10 microns in diameter (PM10), during ground-intrusive activities. 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 µg/m³, 5.0 parts per million [ppm], and 0.100 mg/m³ respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 ranged from 0.00 to 0.03 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	0.0	0.00
PM-2	0.008	0.0	0.01
PM-3	0.008	0.0	0.00
PM-4	0.007	0.0	0.01
PM-5	0.007	0.0	0.00
PM-6	0.007	0.0	0.00
WZ-1	-	-	-
WZ-2	-	-	-

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.010	0.0	0.01
PM-2	0.010	0.0	0.02
PM-3	0.013	0.0	0.01
PM-4	0.010	0.0	0.03
PM-5	0.009	0.0	0.04
PM-6	0.011	0.0	0.01
WZ-1	-	-	-
WZ-2	-	-	-

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

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Ali Reach
			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 μ g/m³ to 0.10 μ g/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 work day.

Prior to CAMP Shutdown

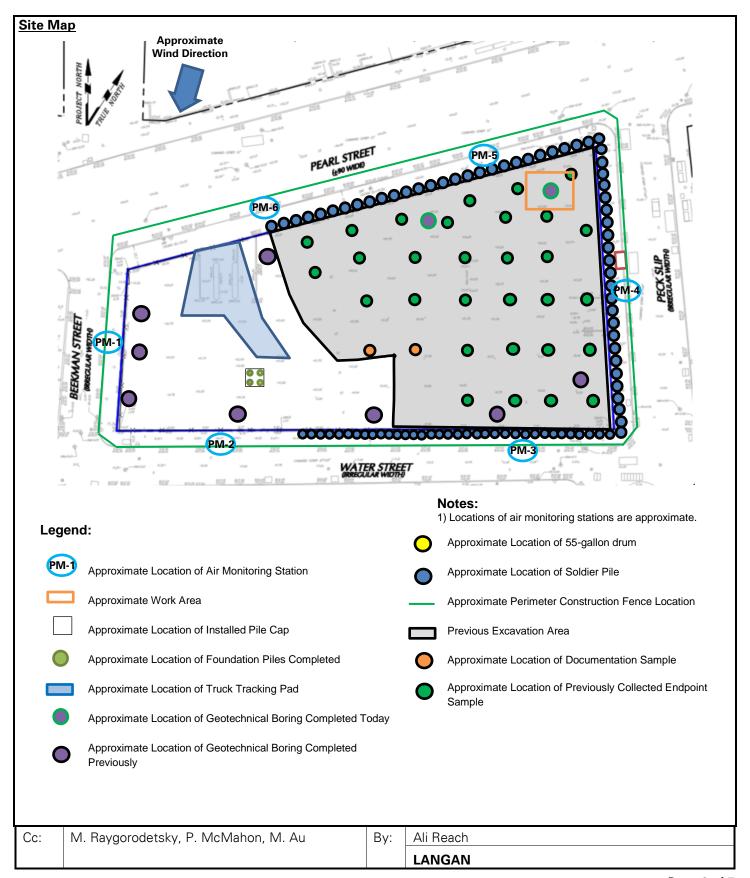
Prior to discontinuing CAMP at the conclusion of ground-intrusive activities, mercury vapor and VOC concentrations

mercur		y. CAMI	erimeter station using the handheld Jerome® J505 P stations were discontinued sequentially between es.
	Background concentrations of mercury vapor at	t each CA	AMP station ranged from 0.00 to 0.03 μg/m³.
	Background concentrations of VOCs at each CA	AMP stat	ion were recorded at 0.0 ppm.
<u>Antici</u>	pated Activities		
	None.		
Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Ali Reach
			LANGAN

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Ali Reach
			LANGAN



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Langan PN: 170381202 Wednesday, April 5, 2023 Page 7 of 7

SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: Craig advancing a geotechnical soil boring in the northeastern part of the site (facing north)

Cc: M. Raygorodetsky, P. McMahon, M. Au By: Ali Reach

LANGAN



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

DATE: Monday, June 19, 2023

PROJECT:

LOCATION:

250 Water Street

New York, NY

LLC

250 Seaport District,

WEATHER: c/o The Howard Hughes

Corporation

Partly Sunny, 65 – 80 °F

Wind: NE @ 0.25 - 2.24 mph

TIME:

6:00 am - 2:30 pm

MONITOR

Jack Millman

BCP SITE ID:

EQUIPMENT:

CAT 335 Excavator Jerome J505 Mercury Vapor Analyzer RKI GX-6000 Photoionization Detector

C231127

(PID)

Aeroqual ASQ1 Air Monitoring Station

PRESENT AT SITE:

Day 144 Langan (Environmental) Jack Millman, Roswell Lo, Paul McMahon Suffolk Construction (Suffolk) (General Contractor) Anthony Galu **New York State Department of Environmental Conservation**

(NYSDEC) Rafi Alam

New York City Department of Buildings (NYCDOB)

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

- Suffolk began mobilizing equipment to the site in preparation for the next phase of remediation. An on-site meeting was attended by Suffolk, Langan and the NYSDEC to discuss project expectations during implementation of the RAWP.
- Ground-intrusive activities were not conducted throughout the workday; however, Langan implemented the community air monitoring plan (CAMP) to troubleshoot equipment and collect background air quality data prior to the commencement of remedial activities.
- NYCDOB was on-site to conduct a routine inspection of general site conditions. No adverse conditions were identified, and no further action was required as a result of the site visit.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Jack Millman
			LANGAN



Page 2 of 6

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	Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone Stone Stone Stone Stone		on, NJ h Virgin	Co Impact Mate Lyndhurst	use & Recovery enter or erials Jersey City, /Jersey City, NJ 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	8	184.42	0	0	15	339.65	336	8,216.79			
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 2)										
Facility Name Location Type of Material Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320			

Material Export Summary (2 of 2)											
Facility Name Location Type of Material	ocation 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	261	5,220	267	5,340	66	1,320					

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



Page 3 of 6

SITE OBSERVATION REPORT

Sampling

• No samples were collected.

CAMP Activities

Langan performed air monitoring at the perimeter of the site at four locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10). 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 μ g/m³, 5.0 parts per million [ppm], and 0.100 mg/m³ respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 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	0.004	0.0	0.00
PM-2	0.004	0.0	0.00
PM-3	0.004	0.0	0.00
PM-4	0.004	0.0	0.00
WZ-1	-	-	-
WZ-2	-	-	-
WZ-3	-	-	-
WZ-4	-	-	-

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.008	0.0	0.01
PM-2	0.008	0.0	0.02
PM-3	0.006	0.0	0.02
PM-4	0.007	0.0	0.03
WZ-1	-	-	-
WZ-2	-	-	-
WZ-3	-	-	-
WZ-4	-	-	-

•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
			LANGAN



Page 4 of 6

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 0.08 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.

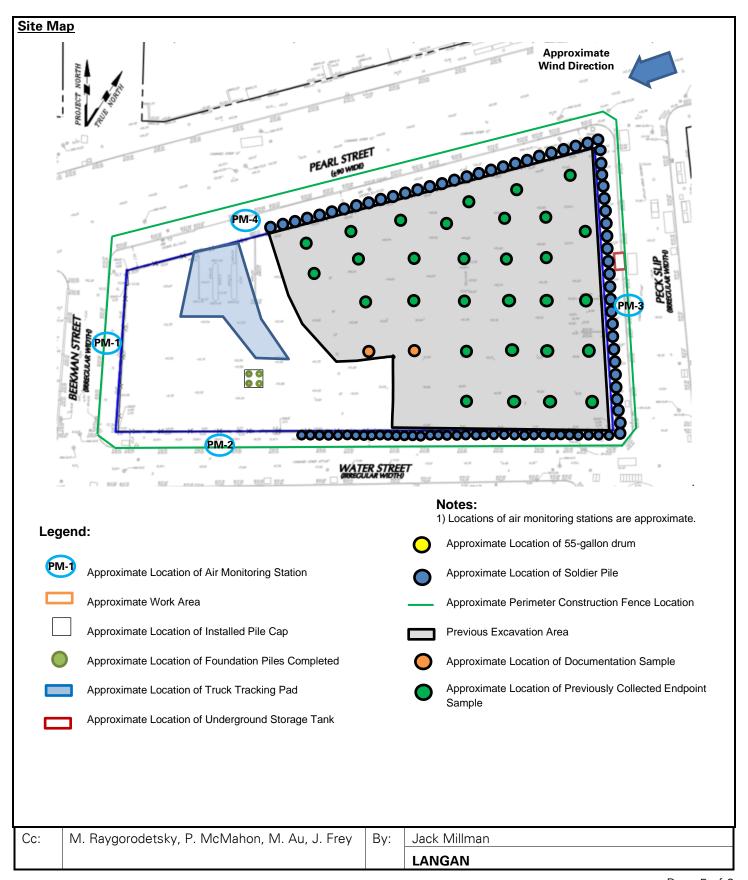
Prior to CAMP Shutdown

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. CAMP stations were discontinued sequentially between 1:54 pm and 2:06 pm.

			LANGAN
Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey	Ву:	Jack Millman
	remediation.		
•		continu	ue mobilization in preparation for the next phase of
Antici	pated Activities		
•	Background concentrations of VOCs at each CAN	MP stat	ion were recorded at 0.0 ppm.
•	Background concentrations of mercury vapor at e	each CA	AMP station ranged from 0.00 to 0.04 μg/m³.
	tively. CAMP stations were discontinued sequentia		ween 1:54 pm and 2:06 pm.



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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: General view of the site (facing west)

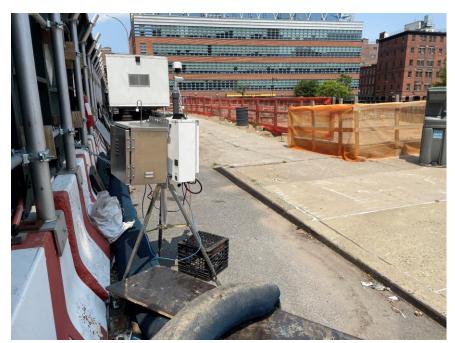


Photo 2: View of CAMP station PM-4 in the northwestern part of the site (facing southeast)

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

Day 145



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

DATE: Tuesday, June 20, 2023

PROJECT:

LOCATION:

250 Water Street

New York, NY

250 Seaport District, LLC

c/o The Howard Hughes

Corporation

WEATHER: Sunny, 64–77 °F

Wind: NE @ 4 – 7 mph

TIME:

7:45 am - 9:00 am

MONITOR

Jack Millman

EQUIPMENT:

BCP SITE ID:

CAT 335 Excavator

Jerome J505 Mercury Vapor Analyzer RKI GX-6000 Photoionization Detector (PID)

C231127

Aeroqual ASQ1 Air Monitoring Station

PRESENT AT SITE:

Langan (Environmental) Jack Millman, Michael Au

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

Kwon

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

New York State Department of Environmental Conservation

(NYSDEC) Rafi Alam

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

Suffolk continued mobilizing equipment in preparation for the next phase of remediation. An on-site meeting
was attended by Suffolk, Langan, ECD, and the NYSDEC to discuss project expectations during
implementation of the RAWP.

Cc:	M. Raygorodetsky, P. McMahon, M. Au	Ву:	Jack Millman
			LANGAN



Page 2 of 5

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	Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone		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	8	184.42	0	0	15	339.65	336	8,216.79				
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 2)										
Facility Name Location Type of Material Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320			

	Material Export Summary (2 of 2)												
Facility Name Location Type of Material	cation East Brunswick, NJ		ocation East Brunswick, NJ Keasbey, NJ		Keasbey, NJ Carteret, NJ								
Quantities	No. of Loads	Approx. Volume (CY)	No. of Loads	o. of Loads Approx. Volume (CY)		Approx. Volume (CY)							
Today	0	0	0	0	0	0							
Project Total	261	5,220	267	5,340	66	1,320							

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

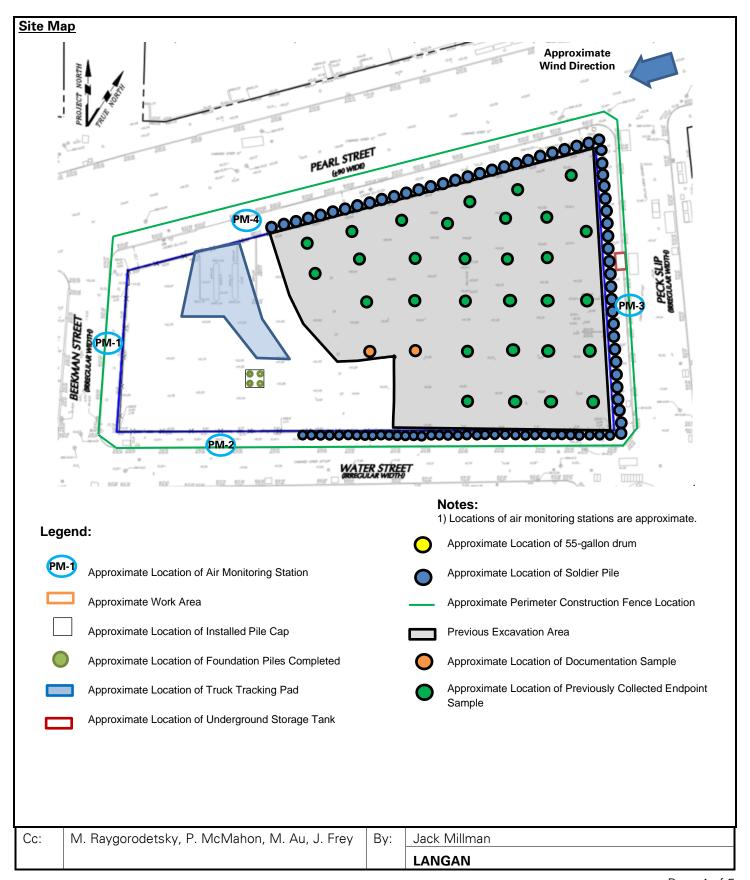


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			LANGAN
Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey	Ву:	Jack Millman
•	Suffolk and ECD will continue mobilization in prepare	paration	n for the next phase of remediation.
	pated Activities	ot impi	emented due to a lack of ground-initiative activities.
<u>JAIVIP</u>	Activities The community air monitoring plan (CAMP) was no	nt impl	emented due to a lack of ground-intrusive activities.
•	No samples were collected.		
Sampl			



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Page 5 of 5

SITE OBSERVATION REPORT

Select Site Photographs:

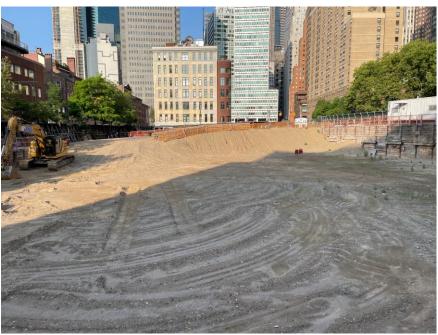


Photo 1: General view of the site (facing west)

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

LANGAN

Day 146



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

Corporation

Thursday, June 22, 2023 DATE:

PROJECT:

250 Water Street

250 Seaport District, LLC

c/o The Howard Hughes

Overcast, 60 - 65 °F

LOCATION:

New York, NY

WEATHER:

Wind: NE @ 8 - 16 mph

TIME:

6:50 am - 12:15 pm

MONITOR

Jack Millman

EQUIPMENT:

BCP SITE ID:

CAT 335 Excavator ABI Mobilram Drill Rig Jerome J505 Mercury Vapor Analyzer RKI GX-6000 Photoionization Detector (PID)

Aeroqual ASQ1 Air Monitoring Station

C231127

PRESENT AT SITE:

Langan (Environmental) Jack Millman

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

(NYSDEC) Rafi Alam and 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

Suffolk and ECD continued mobilizing equipment in preparation for the next phase of remediation.

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



Page 2 of 5

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	Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone		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 R Recovery Lyndhu Genera	Center, rst, NJ						
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	8	184.42	0	0	15	339.65	336	8,216.79						
NYSDEC Approved:	1,800		tons*	tons*		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 2)												
Facility Name Location Type of Material	tion Construction & Demolition		Brooklyn, NY Construction & Demolition Brooklyn, NY Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320					

	Material Export Summary (2 of 2)												
Facility Name Location Type of Material	cation East Brunswick, NJ		ocation East Brunswick, NJ Keasbey, NJ		Keasbey, NJ Carteret, NJ								
Quantities	No. of Loads	Approx. Volume (CY)	No. of Loads	o. of Loads Approx. Volume (CY)		Approx. Volume (CY)							
Today	0	0	0	0	0	0							
Project Total	261	5,220	267	5,340	66	1,320							

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

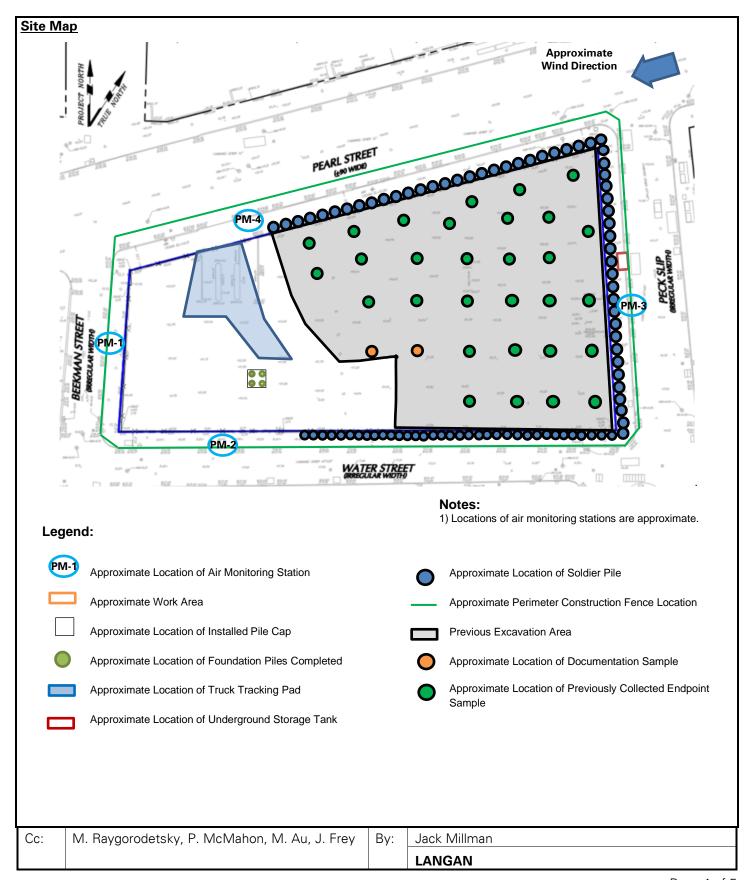


Page 3 of 5

<u>Sampli</u>	<u>ing</u>		
•	No samples were collected.		
CAMP A	<u>Activities</u>		
•	The community air monitoring plan (CAMP) was n performed.	ot imp	lemented because no ground-intrusive activities were
<u>Anticip</u>	eated Activities		
•	Suffolk and ECD will continue mobilization in preparation	aration	for the next phase of remediation.
,		T	
Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey	Ву:	Jack Millman
			LANGAN



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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: General view of the site (facing east)

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

LANGAN



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

DATE: Friday, June 23, 2023

PROJECT:

LOCATION:

250 Water Street

New York, NY

C231127

250 Seaport District, LLC

WEATHER: c/o The Howard Hughes

Corporation

Overcast/Light Rain, 65 - 70 °F

Wind: NE @ 3 - 7 mph

TIME:

6:45 am - 12:30 pm

MONITOR

Jack Millman

EQUIPMENT:

BCP SITE ID:

CAT 335 Excavator ABI Mobilram Drill Rig Jerome J505 Mercury Vapor Analyzer RKI GX-6000 Photoionization Detector (PID)

PRESENT AT SITE:

Day 147

Langan (Environmental) Jack Millman and Isabella Legovich Suffolk Construction (Suffolk) (General Contractor) Anthony Galu East Coast Drilling, Inc. (ECD) (Foundation Contractor) Danny Rodgers **New York State Department of Environmental Conservation**

(NYSDEC) Rafi Alam and Jared Donaldson

Aeroqual ASQ1 Air Monitoring Station

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

Suffolk and ECD continued mobilizing equipment in preparation for the next phase of remediation.

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



Page 2 of 5

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	Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone		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		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	8	184.42	0	0	15	339.65	336	8,216.79						
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 2)												
Facility Name Location Type of Material	tion Construction & Demolition		Brooklyn, NY Construction & Demolition Brooklyn, NY Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320					

Material Export Summary (2 of 2)							
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	261	5,220	267	5,340	66	1,320	

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

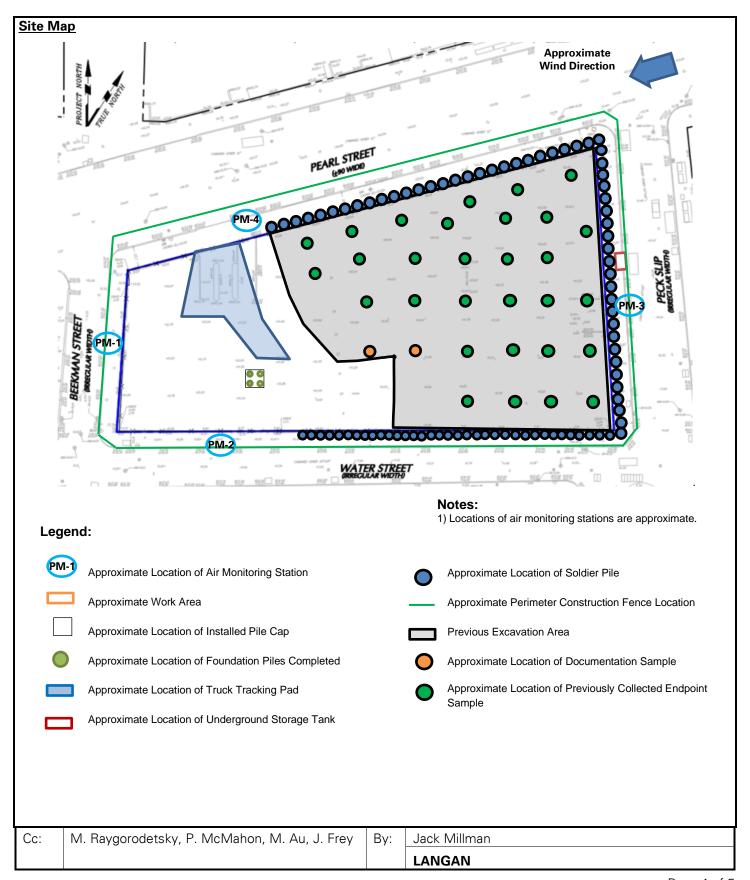


Page 3 of 5

Sampli	ng		
•	No samples were collected.		
CAMP A	<u>Activities</u>		
•	The community air monitoring plan (CAMP) was n performed.	ot impl	emented because no ground-intrusive activities were
Anticip	ated Activities		
•	Suffolk and ECD will continue mobilization in prepare	aration	for the next phase of remediation.
0			
Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey	Ву:	Jack Millman
			LANGAN



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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: General view of the site (facing northeast)



Photo 2: ECD mobilizing equipment to the site (facing southwest)

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



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

Corporation

DATE: Monday, June 26, 2023

PROJECT:

250 Water Street

250 Seaport District, LLC

Overcast/Rain, 70 - 75 °F

c/o The Howard Hughes

WEATHER:

Wind: WNW @ 0.1 - 1.6 mph

LOCATION:

New York, NY

TIME:

5:45 am - 4:15 pm

BCP SITE ID:

C231127

MONITOR

Jack Millman

EQUIPMENT:

CAT 335 Excavator ABI Mobilram Drill Rig Jerome J505 Mercury Vapor Analyzer RKI GX-6000 Photoionization Detector (PID)

Aeroqual ASQ1 Air Monitoring Station

PRESENT AT SITE:

Day 148

Langan (Environmental) Jack Millman, Gabriella DeGennaro, Mike Au, Seyena Simpson, Paul McMahon, Jack Frey

Suffolk Construction (Suffolk) (General Contractor) Anthony Galu East Coast Drilling, Inc. (ECD) (Foundation Contractor) Danny Rodgers, Garv Smith

New York State Department of Environmental Conservation (NYSDEC) Mike Sollecito

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

- Suffolk and ECD continued mobilizing equipment in preparation for the next phase of remediation.
- ECD received four, 55-gallon drums containing Atmos® AC-645 odor/vapor suppressing foam. The drums were staged in the central part of the site for use during future remedial activities. ECD applied Atmos® odor/vapor suppressing foam to the northwestern part of the site to verify the equipment was operational prior to the commencement of remedial activities.
- Ground-intrusive activities were not conducted throughout the workday; however, Langan implemented the community air monitoring plan (CAMP).

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



Page 2 of 6

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	Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone Stone Stone Stone Stone 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	8	184.42	0	0	15	339.65	336	8,216.79	
NYSDEC Approved:	1,800 tons*			720 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 2)								
Facility Name Location Type of Material	Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320

Material Export Summary (2 of 2)							
Facility Name Location Type of Material	Middlesex County Landfill East Brunswick, NJ Non-hazardous Soil/Fill		Keas	oil Management Sbey, 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	261	5,220	267	5,340	66	1,320	

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



Page 3 of 6

SITE OBSERVATION REPORT

Sampling

No samples were collected.

CAMP Activities

Langan performed air monitoring at the perimeter of the site and at the northern sidewalk of Pearl Street at five total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10). 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 μ g/m³, 5.0 parts per million [ppm], and 0.100 mg/m³ respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld photoionization detector (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	0.010	0.00	0.00
PM-2	0.010	0.00	0.00
PM-3	0.010	0.00	0.01
PM-4	0.011	0.00	0.00
WZ-1	-	-	-
WZ-2	-	-	-
WZ-3	-	-	-
WZ-4	0.010	0.00	0.00

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.019	0.01	0.08
PM-2	0.018	0.01	0.01
PM-3	0.021	0.10	0.04
PM-4	0.027	0.07	0.17
WZ-1	-	-	-
WZ-2	-	-	-
WZ-3	-	-	-
WZ-4	0.018	0.01	0.00

•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



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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 μ g/m³ to 0.12 μ g/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.

Prior to CAMP Shutdown

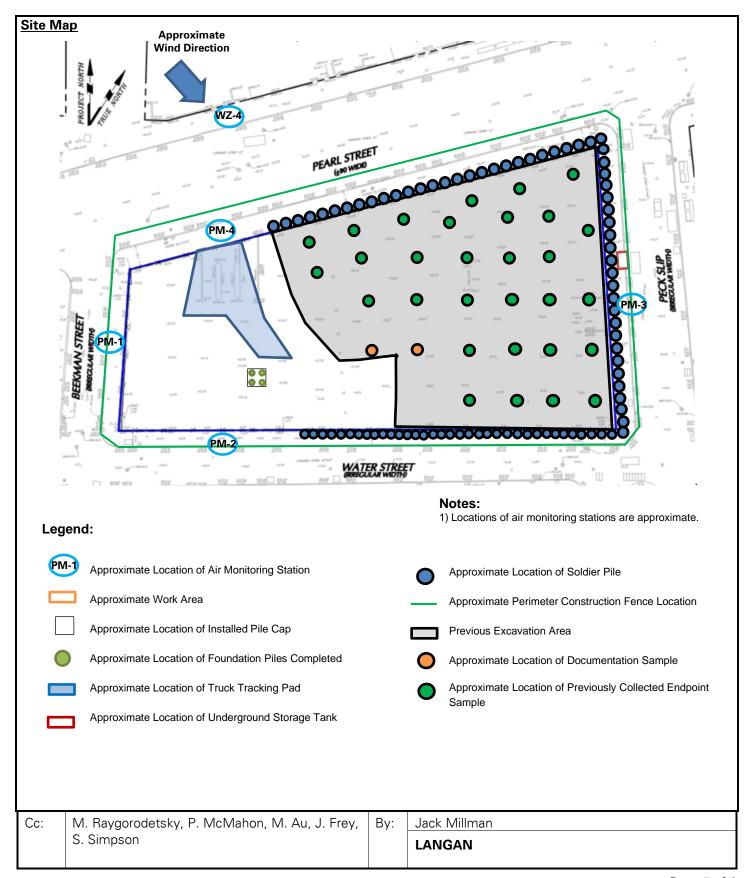
Prior to discontinuing CAMP, mercury vapor and VOC concentrations were confirmed to return to background

condition	, , ,	Jerom	e [®] J505 mercury vapor analyzer and handheld PID, ween 3:33 pm and 3:52 pm.	
•	Background concentrations of mercury vapor at e	ach CA	AMP station ranged from 0.00 to 0.01 μg/m³.	
•	Background concentrations of VOCs at each CAN	/IP stat	ion ranged from 0.0 to 0.1 ppm.	
Anticipated Activities				
•	Suffolk and ECD will continue mobilization in preg	oaratior	n for the next phase of remediation.	
Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Jack Millman	
	S. Simpson		LANGAN	

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



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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: ECD applying Atmos® AC-645 odor/vapor suppressing foam in the northwestern part of the site to verify the equipment was operational prior to the commencement of remedial activities (facing southwest)

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

By: Jack Millman

LANGAN



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

DATE: Tuesday, June 27, 2023

PROJECT:

250 Water Street

250 Seaport District, LLC

Corporation

c/o The Howard Hughes

WEATHER:

Overcast/Light Rain, 68 - 75 °F

Wind: E @ 0.1 – 1.7 mph

LOCATION:

New York, NY

TIME:

5:45 am - 1:00 pm

BCP SITE ID: C231127 **MONITOR**

Jack Millman

EQUIPMENT:

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

PRESENT AT SITE:

Day 149 Langan (Environmental) Jack Millman, Gabriella DeGennaro Suffolk Construction (Suffolk) (General Contractor) Anthony Galu East Coast Drilling, Inc. (ECD) (Foundation Contractor) Danny Rodgers **New York State Department of Environmental Conservation**

(NYSDEC) Mike Sollecito

Earth Efficient LLC (Earth Efficient) (Soil Broker) Michael DiGaetano

Aeroqual ASQ1 Air Monitoring Station

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

- Suffolk and ECD continued mobilizing equipment in preparation for the next phase of remediation.
- Earth Efficient marked out waste characterization cells along the perimeter construction fence in preparation for excavation and off-site disposal of soil/fill during the next phase of remediation.
- Ground-intrusive activities were not conducted throughout the workday; however, Langan implemented the community air monitoring plan (CAMP) from about 6:53am to 11:55am.

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



Page 2 of 6

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	Stone		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	8	184.42	0	0	15	339.65	336	8,216.79			
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 2)											
Facility Name Location Type of Material Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320				

Material Export Summary (2 of 2)												
Facility Name Location Type of Material	Location East Brunswick, NJ			oil Management sbey, 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	261	5,220	267	5,340	66	1,320						

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



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SITE OBSERVATION REPORT

Sampling

No samples were collected.

CAMP Activities

Langan performed air monitoring at the perimeter of the site at four locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10) from about 6:53am to 11:55am. 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 µg/m³, 5.0 parts per million [ppm], and 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 photoionization detector (PID), respectively.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00 to 0.01 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	0.012	0.00	0.01
PM-2	0.013	0.00	0.01
PM-3	0.013	0.00	0.01
PM-4	0.013	0.01	0.06
WZ-1	-	-	-
WZ-2	-	-	-
WZ-3	-	-	-
WZ-4	-	-	-

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.016	0.04	0.19
PM-2	0.017	0.01	0.02
PM-3	0.017	0.00	0.02
PM-4	0.018	0.09	0.38
WZ-1	-	-	-
WZ-2	-	-	-
WZ-3	-	-	-
WZ-4	-	-	-

•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



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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 0.07 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.

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. CAMP stations were discontinued sequentially between 11:55 am and 12:03 pm.

- 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

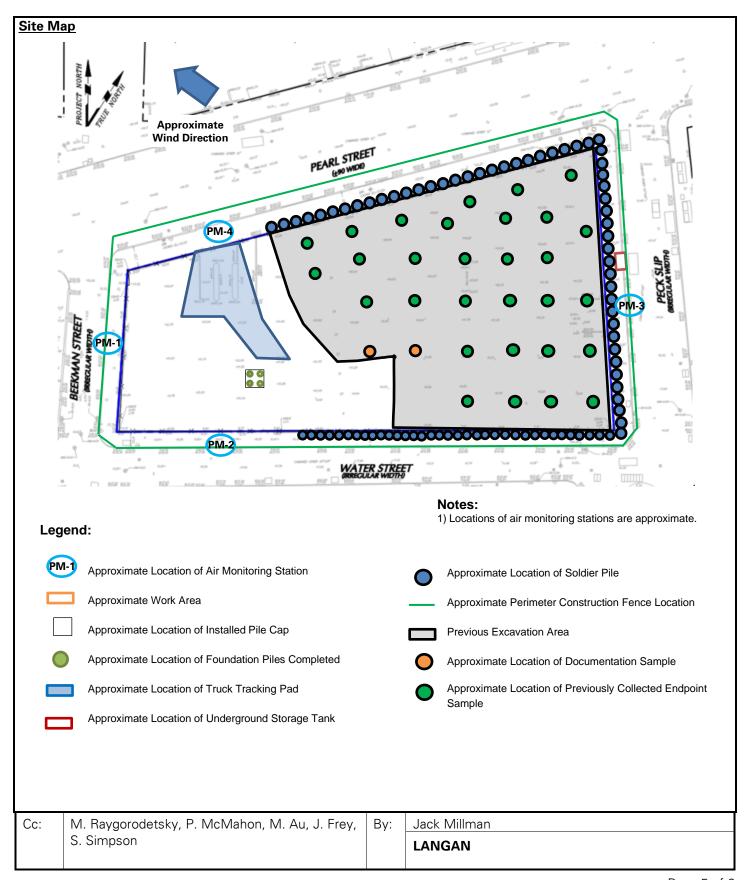
- Suffolk and ECD will continue mobilization in preparation for the next phase of remediation.
- ECD will reinforce the existing support-of-excavation in the southeastern part of the site by placing flowable fill behind the timber lagging.

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



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: General view of the site (facing east)

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

Day 150



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

Wednesday, June 28, 2023

PROJECT:

LOCATION:

250 Water Street

New York, NY

LLC

c/o The Howard Hughes Corporation

250 Seaport District,

WEATHER:

DATE:

Cloudy/Light Rain, 70 – 80 °F

Wind: E @ 0.2 – 1.9 mph

TIME:

5:45 am - 4:00 pm

BCP SITE ID: C231127

MONITOR Jack Millman

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:

Langan (Environmental) Jack Millman, Gabriella DeGennaro
Suffolk Construction (Suffolk) (General Contractor) Anthony Galu
East Coast Drilling, Inc. (ECD) (Foundation Contractor) Danny Rodgers
New York State Department of Environmental Conservation

(NYSDEC) Mike Sollecito

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

- Suffolk and ECD continued mobilizing equipment in preparation for the next phase of remediation.
- ECD poured flowable fill behind existing support-of-excavation in the southern and eastern parts of the site.
- Ground-intrusive activities were not conducted throughout the workday; however, Langan implemented the community air monitoring plan (CAMP) from about 6:46am to 3:23pm.

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



Page 2 of 6

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	Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone		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	8	184.42	0	0	15	339.65	336	8,216.79			
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 2)											
Facility Name Location Type of Material Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		Lyndhurst, N	IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320				

Material Export Summary (2 of 2)									
Facility Name Location Type of Material	n 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		No. of Loads	Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)			
Today	0	0	0	0	0	0			
Project Total	261	5,220	267	5,340	66	1,320			

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



Page 3 of 6

SITE OBSERVATION REPORT

Sampling

No samples were collected.

CAMP Activities

Langan performed air monitoring at the perimeter of the site at four total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10) from about 6:46am to 3:23pm. 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 µg/m³, 5.0 parts per million [ppm], and 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 photoionization detector (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	0.011	0.00	0.01
PM-2	0.012	0.00	0.01
PM-3	0.011	0.00	0.02
PM-4	0.011	0.00	0.02
WZ-1	-	-	-
WZ-2	-	-	-
WZ-3	-	-	-
WZ-4	-	-	-

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.042	0.00	0.09
PM-2	0.046	0.01	0.02
PM-3	0.047	0.02	0.04
PM-4	0.033	0.08	0.20
WZ-1	-	-	-
WZ-2	-	-	-
WZ-3	-	-	-
WZ-4	-	-	-

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

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



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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 0.09 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.

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. CAMP stations were discontinued sequentially between 3:23 pm and 3:31 pm.

- 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

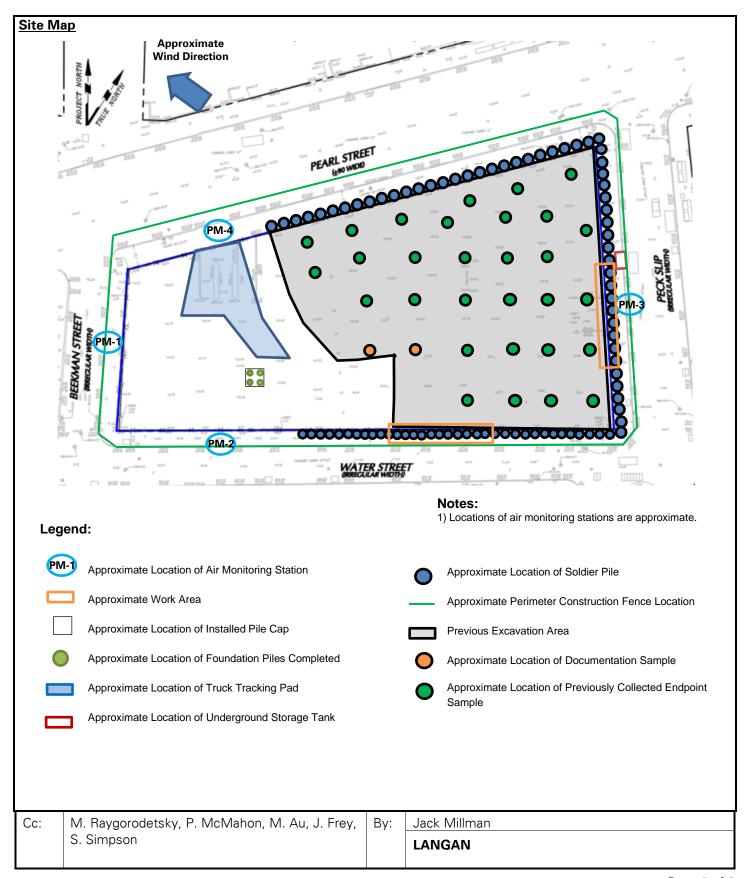
- Suffolk and ECD will continue mobilization in preparation for the next phase of remediation.
- ECD will continue reinforcing the existing support-of-excavation in the eastern and northern parts of the site.

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



Page 5 of 6

SITE OBSERVATION REPORT





Langan PN: 170381202 Wednesday, June 28, 2023 Page 6 of 6

SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: General view of the site (facing east).

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

LANGAN



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

Thursday, June 29, 2023

PROJECT:

250 Water Street

WEATHER:

DATE:

Partly Sunny, 65 – 80 °F

c/o The Howard **Hughes Corporation**

250 Seaport District,

Wind: E @ 0.24 - 2.09 mph

LOCATION: New York, NY

TIME: 5:45 am - 3:45 pm

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

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:

Day 151 Langan (Environmental) Jack Millman, Gabriella DeGennaro, Brayden

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

(NYSDEC) Mike Sollecito

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

- Suffolk and ECD continued mobilizing equipment in preparation for the next phase of remediation.
- ECD poured flowable fill behind existing support-of-excavation in the northern and eastern parts of the site.
- Ground-intrusive activities were not conducted throughout the workday; however, Langan implemented the community air monitoring plan (CAMP) from about 6:40 am to 3:00 pm.

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



Page 2 of 6

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. ledon, NJ 5-inch Virgin Stone	Haled 0.75-ind	ustries, Inc. on, NJ h Virgin one	NJ Center or NJ Impact Materials Jersey City, /irgin Lyndhurst/Jersey City, NJ		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	8	184.42	0	0	15	339.65	336	8,216.79	
NYSDEC Approved:	1,800 tons*			720 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 2)									
Facility Name Location Type of Material	Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320		

Material Export Summary (2 of 2)									
Facility Name Location Type of Material	n 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		No. of Loads	Approx. Volume (CY)	No. of Loads	Approx. Volume (CY)			
Today	0	0	0	0	0	0			
Project Total	261	5,220	267	5,340	66	1,320			

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



Page 3 of 6

SITE OBSERVATION REPORT

<u>Sampling</u>

No samples were collected.

CAMP Activities

Langan performed air monitoring at the perimeter of the site and at the northern sidewalk of Pearl Street at five total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10) from about 6:40am to 3:00pm. 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 μ g/m³, 5.0 parts per million [ppm], and 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 photoionization detector (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	0.029	0.00	0.01
PM-2	0.031	0.00	0.01
PM-3	0.030	0.00	0.01
PM-4	0.034	0.00	0.01
WZ-1	-	-	-
WZ-2	-	-	-
WZ-3	-	-	-
WZ-4	0.031	0.00	0.00

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.053	0.00	0.02
PM-2	0.055	0.00	0.02
PM-3	0.053	0.00	0.04
PM-4	0.056	0.01	0.03
WZ-1	-	-	-
WZ-2	-	-	-
WZ-3	-	-	-
WZ-4	0.060	0.00	0.01

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

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



Page 4 of 6

SITE OBSERVATION REPORT

Equipment Troubleshooting

• Mercury vapor, VOCs, and PM10 concentrations were not recorded at perimeter CAMP station PM-1 between 2:25pm and 2:32pm due to depleted battery. Datalogging resumed at about 2:33pm following replacement of the battery. No ground-intrusive work occurred throughout the day. Fugitive dust and odors were not observed migrating off-site during this time.

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 0.09 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.

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. CAMP stations were discontinued sequentially between 3:02 pm and 3:17 pm.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00 to 0.04 μg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Anticipated Activities

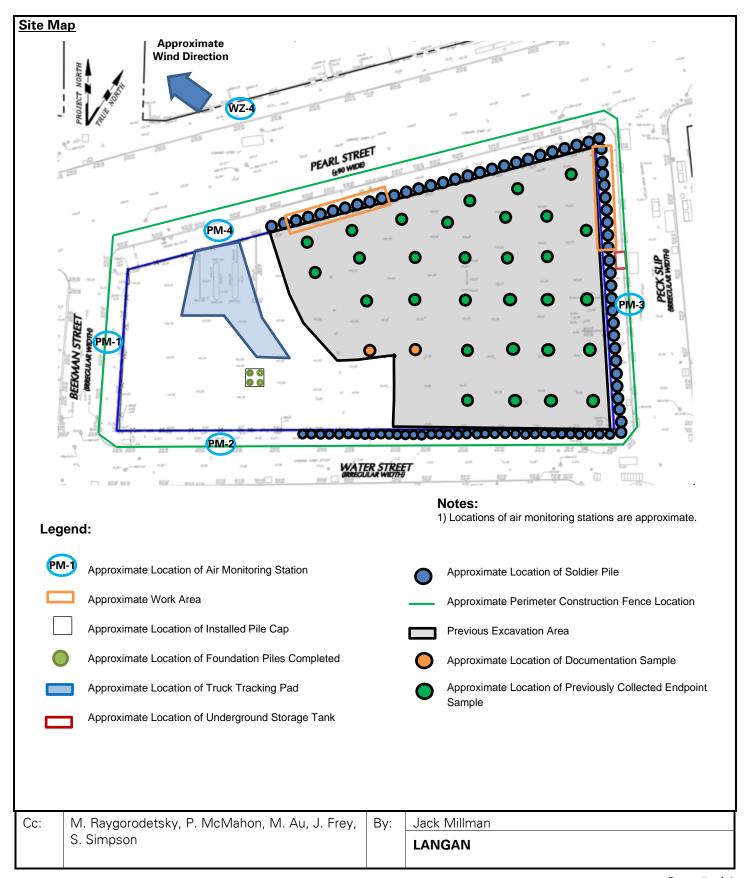
•	Suffolk and ECD will continue mobilization in preparation for the next phase of remediation.					

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



Page 5 of 6

SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: Dust suppression in the northwestern part of the site (facing south)

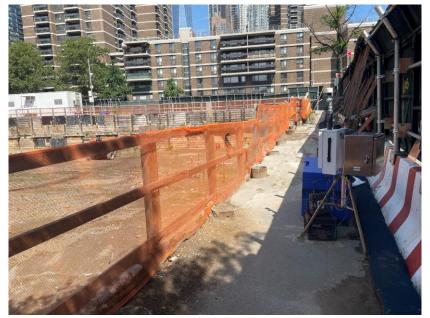


Photo 2: CAMP station PM-3 in the eastern part of the site (facing north)

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

Day 152



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

DATE: Friday, June 30, 2023

PROJECT:

250 Water Street

Partly Sunny, 68 - 82°F

WEATHER:

Wind: SE @ 0.2 – 2.4 mph

LOCATION:

New York, NY

TIME:

5:45am - 2:00pm

BCP SITE ID:

C231127

MONITOR

Jack Millman

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) Jack Millman

Suffolk Construction (Suffolk) (General Contractor) Anthony Galu East Coast Drilling, Inc. (ECD) (Foundation Contractor) Danny Rodgers **New York State Department of Environmental Conservation** (NYSDEC) Mike Sollecito

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

- Suffolk and ECD continued mobilizing equipment in preparation for the next phase of remediation.
- Ground-intrusive activities were not conducted throughout the workday; however, Langan implemented the community air monitoring plan (CAMP) from about 7:00 am to 1:20 pm.

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



Page 2 of 6

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	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	8	184.42	0	0	15	339.65	336	8,216.79
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 2)								
Facility Name Location Type of Material	Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320

Material Export Summary (2 of 2)							
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	261	5,220	267	5,340	66	1,320	

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



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SITE OBSERVATION REPORT

Sampling

No samples were collected.

CAMP Activities

Langan performed air monitoring at the perimeter of the site at four locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10) from about 6:59 am to 1:23 pm. There were no fifteen-minute average concentrations for mercury vapor or VOCs that approached or exceeded the action levels established by the CAMP (1.00 μ g/m³ and 5.0 parts per million [ppm], 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 photoionization detector (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.
- *A NYSDEC Air Quality Health Advisory was issued for New York State on Friday, June 30th. Background concentrations of PM10 were observed at a daily average concentration above the 15-minute time-weighted-average (TWA) action level of 0.100 mg/m³ due to regionally poor air quality. The PM10 exceedances are not attributed to remediation activities at the site.

Perimeter and Work Zone Concentrations

Daily Average Concentrations

Station ID	*Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.115	0.00	0.01
PM-2	0.119	0.00	0.01
PM-3	0.114	0.00	0.02
PM-4	0.119	0.00	0.01
WZ-1	-	-	-
WZ-2	-	-	-
WZ-3	-	-	-
WZ-4	-	-	-

^{*}See note above regarding background particulate concentrations

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SITE OBSERVATION REPORT

Maximum 15-Minute-Average Concentrations

		J	
Station ID	*Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.129	0.01	0.02
PM-2	0.136	0.02	0.01
PM-3	0.124	0.03	0.04
PM-4	0.143	0.02	0.03
WZ-1	-	-	-
WZ-2	_	-	_

[•]mg/m³ = milligrams per cubic meter •ppm = parts per million •µg/m³ = micrograms per cubic meter *See note above regarding background particulate concentrations

Ambient Air (Handheld Jerome® J505 and Handheld PID)

WZ-3 WZ-4

- 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 0.10 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.

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. CAMP stations were discontinued sequentially between 1:23 pm and 1:42 pm.

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

Anticipated Activities

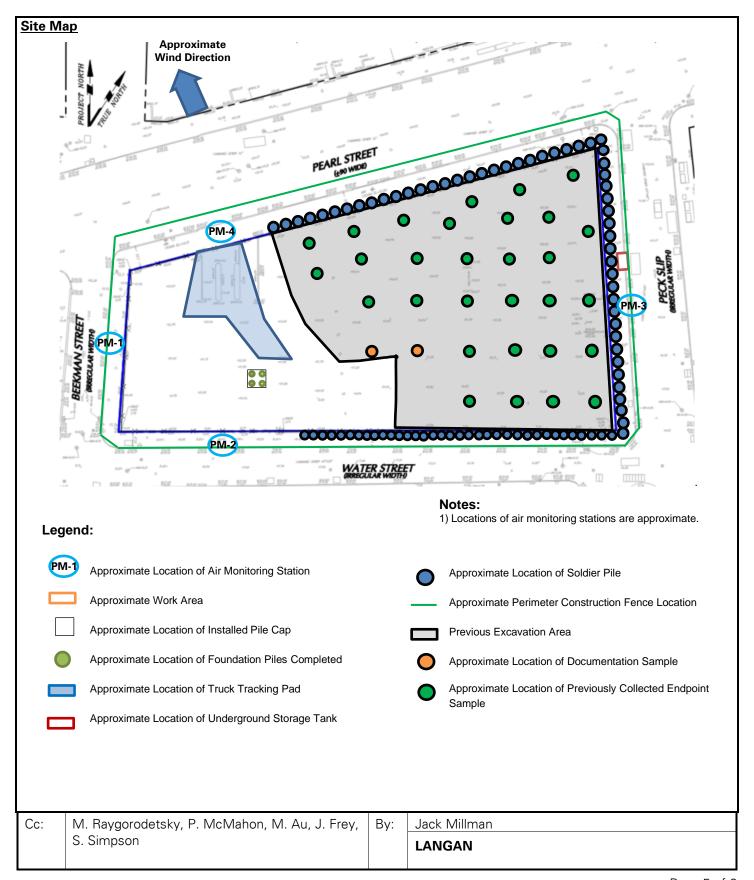
ECD will begin excavation in the northern part of the site for installation of a stabilized construction entrance.

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



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: General view of the site (facing west)



Photo 2: CAMP station PM-2 in the southwestern part of the site (facing west)

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

Day 153



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

DATE: Wednesday, July 5, 2023

PROJECT:

250 Water Street

Partly Sunny, 75 – 90°F

WEATHER:

Wind: E @ 0.1 - 2.2 mph

LOCATION:

New York, NY

TIME:

5:45am - 4:45pm

BCP SITE ID:

C231127

MONITOR

Jack Millman

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) Jack Millman, Gabriella DeGennaro, Pradeep Pandey

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

(NYSDEC) Rafi Alam

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 applied Mercon-X® to the northwestern part of the site to verify the equipment was operational prior to the commencement of remedial activities.
- ECD demolished existing asphalt and concrete in the northwestern part of the site. The construction and demolition (C&D) debris was temporarily stockpiled on and covered with polyethylene sheeting adjacent to the work area pending future off-site disposal.
- ECD removed previously imported 1.5-inch virgin stone from the existing tracking pad and excavated an about 30-foot-long by 25-foot-wide area to a maximum depth of about 1 foot below grade surface (bgs) for the installation of a stabilized construction entrance in the northwestern part of the site.
 - 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. Evidence of impacts was not observed and the soil/fill was temporarily stockpiled on and covered with polyethylene sheeting adjacent to the work area for future off-site disposal.
 - ECD backfilled the area to grade using the previously imported 1.5-inch virgin stone. A layer of filter fabric was placed atop the stone, followed by polyethylene sheeting and reusable, plastic tracking pads for installation of the stabilized construction entrance.
- ECD excavated an about 4-foot-long by 4-foot-wide area to a maximum depth of about 4 feet bgs to create a temporary sump pit for the collection of excess fluids generated during truck washing operations in the northwestern part of the site. Excavated soil/fill was temporarily stockpiled on and covered with polyethylene sheeting adjacent to the work area for future off-site disposal.
 - o Excavated soil/fill was screened for odors, staining, organic vapors, and mercury vapor using a handheld PID and handheld Jerome® J505 mercury vapor analyzer, respectively. Mercon-X® was applied to exposed soil/fill and stockpiles as a proactive measure.

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



Page 2 of 6

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.	ndustries, Inc. ledon, NJ 5-inch Virgin Stone	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	8	184.42	0	0	15	339.65	336	8,216.79
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 2)							
Facility Name Location Type of Material	Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320

	Material Export Summary (2 of 2)							
Facility Name Location Type of Material	Location 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	261	5,220	267	5,340	66	1,320		

Sampling

No samples were collected.

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



SITE OBSERVATION REPORT

CAMP Activities

Langan performed air monitoring at the perimeter of the site and at the northern sidewalk of Pearl Street at five total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10) from about 7:00 am to 4:00 pm. There were no fifteen-minute average concentrations for mercury vapor or VOCs that approached or exceeded the action levels established by the CAMP (1.00 μ g/m³ and 5.0 parts per million [ppm], 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 photoionization detector (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	0.018	0.00	0.01
PM-2	0.019	0.00	0.01
PM-3	0.018	0.00	0.02
PM-4	0.023	0.00	0.01
WZ-1	-	-	-
WZ-2	-	-	-
WZ-3	-	-	-
WZ-4	0.020	0.00	0.00

^{*}See note above regarding background particulate concentrations

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.045	0.01	0.03
PM-2	0.051	0.01	0.02
PM-3	0.058	0.02	0.08
PM-4	* 0.175	0.08	0.03
WZ-1	-	-	-
WZ-2	-	-	-
WZ-3	-	-	-
WZ-4	0.049	0.05	0.01

•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
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SITE OBSERVATION REPORT

*PM10 was detected at concentrations exceeding the 15-minute time-weighted-average (TWA) action level at perimeter CAMP station PM-4 between 9:36am and 9:49am. Perimeter CAMP station PM-4 was located adjacent to the work area in the northwestern part of the site and ECD was in the process of demolishing the existing asphalt and concrete cover for the installation of a stabilized construction entrance. Work was halted and the work area was saturated using hydrant water prior to resuming work. Concentrations of PM10 were not detected above background conditions at off-site CAMP station WZ-4 during this time.

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 0.28 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.

Equipment Troubleshooting

• Mercury vapor, VOC and PM10 data were not recorded at perimeter CAMP station PM-4 from 2:09 pm to 2:19 pm due to a network issue with the equipment rental vendor. No ground-intrusive activities were ongoing during this time; however, Langan continuously monitored the surrounding area using a handheld Jerome[®] J505 mercury vapor analyzer and handheld PID. Mercury vapor and VOC concentrations were not detected at concentrations above background conditions during this time. The equipment rental vendor was notified of the issue and a spare CAMP station was placed at the location of perimeter CAMP station PM-4.

Off-site CAMP Stations

• CAMP station WZ-4 was relocated to the northern sidewalk of Pearl Street from 6:24am to 4:28pm due to ground-intrusive activities along the northern boundary of the site.

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. CAMP stations were discontinued sequentially between 3:59pm and 4:28pm.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.0 to 0.01 µg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Anticipated Activities

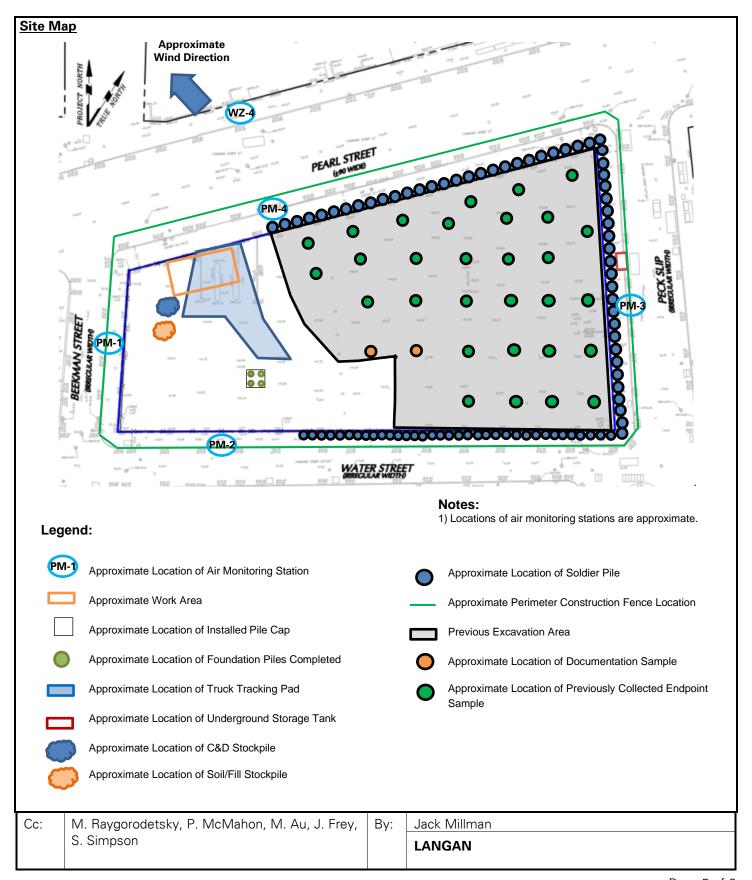
• ECD will excavate soil/fill along Pearl and Beekman Streets to identify potential subsurface utilities and/or obstructions prior to support-of-excavation (SOE) installation.

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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:

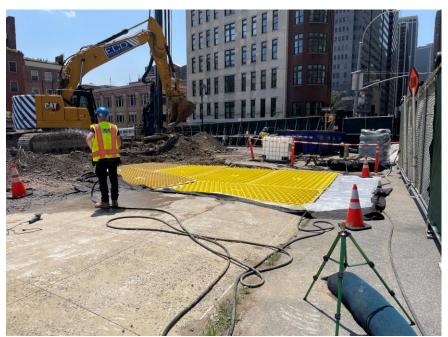


Photo 1: Stabilized construction entrance in the northwestern part of the site (facing west)



Photo 2: Soil/fill stockpile on and covered with polyethylene sheeting in the northwestern part of the site (facing northeast)

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

Day 154



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

DATE: Thursday, July 6, 2023

PROJECT:

250 Water Street

WEATHER:

Partly Sunny, 80 – 90°F

LLC c/o The Howard

Wind: SE @ 0.3 – 1.9 mph

LOCATION: New York, NY **Hughes Corporation**

5:30am - 5:00pm

BCP SITE ID:

C231127

MONITOR

TIME:

Jack Millman

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,

Langan (Environmental/Geotechnical) Jack Millman, Gabriella DeGennaro, Angelina Schott, William Bohrer, Pradeep Pandey Suffolk Construction (Suffolk) (General Contractor) Anthony Galu East Coast Drilling, Inc. (ECD) (Foundation Contractor) Danny Rodgers **New York State Department of Environmental Conservation** (NYSDEC) Rafi Alam, Heidi Dudek, Marnie Chancey

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 demolished existing asphalt and concrete in the western part of the site. The construction and demolition (C&D) debris was temporarily stockpiled on and covered with polyethylene sheeting adjacent to the work area pending future off-site disposal.
- ECD excavated an about 85-foot-long by 5-foot-wide area to a maximum depth of about 4 feet below grade surface (bgs) to identify potential subsurface utilities and/or obstructions prior to support-of-excavation (SOE) installation along Beekman Street.
 - 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. Evidence of impacts was not observed and the soil/fill was temporarily stockpiled on and covered with polyethylene sheeting adjacent to the work area for future backfill into the original location.

Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Jack Millman
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Page 2 of 6

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	Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone		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	8	184.42	0	0	15	339.65	336	8,216.79
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 2)							
Facility Name Location Type of Material	ocation Construction & Demolition		IRRC Lyndhurst, NJ Construction & Demolition (C&D) Debris		Clean Earth of North Jersey Kearny, NJ Hazardous Lead-Impacted Soil/Fill		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320

Material Export Summary (2 of 2)						
Facility Name Middlesex County Landfill Location East Brunswick, NJ Type of Material Non-hazardous Soil/Fill		Keas	oil Management sbey, 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	261	5,220	267	5,340	66	1,320

<u>Sampling</u>

No samples were collected

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



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 6:45am to 3:30pm. 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 μ g/m³, 5.0 parts per million [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 photoionization detector (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	0.012	0.00	0.01
PM-2	0.012	0.00	0.01
PM-3	0.010	0.00	0.01
PM-4	0.011	0.00	0.01
WZ-1	0.011	0.00	0.00
WZ-2	0.008	0.00	0.00
WZ-3	-	-	-
WZ-4	0.012	0.00	0.00

Maximum 15-Minute-Average Concentrations

Station ID	*Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.019	0.00	0.03
PM-2	0.026	0.00	0.01
PM-3	0.019	0.00	0.05
PM-4	0.023	0.00	0.03
WZ-1	0.018	0.00	0.01
WZ-2	0.019	0.00	0.01
WZ-3	-	-	-
WZ-4	0.019	0.00	0.01

•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,	By:	Jack Millman
		S. Simpson		LANGAN



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SITE OBSERVATION REPORT

Off-site CAMP Stations

- CAMP station WZ-1 was relocated to the western sidewalk of Beekman Street from 7:19am to 3:35pm due to ground-intrusive activities along the western boundary of the site.
- CAMP station WZ-2 was relocated to the southern sidewalk of Water Street from 10:53am to 4:01pm due to ground-intrusive activities along the southern boundary of the site.
- CAMP station WZ-4 was relocated to the northern sidewalk of Pearl Street from 6:47am to 3:16pm due to ground-intrusive activities along the northern boundary of the site.

Ambient Air (Handheld Jerome® J505 and Handheld PID)

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

- 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 $0.00 \mu g/m^3$ to $0.13 \mu g/m^3$.
- 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.

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. CAMP stations were discontinued sequentially between 3:16pm and 4:00pm.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.0 to 0.01 µg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Cc:

S. Simpson

Anticip	pated Activities
•	ECD will continue excavating soil/fill along the perimeter of the site to identify potential subsurface utilities and/or obstructions prior to support-of-excavation (SOE) installation

By:

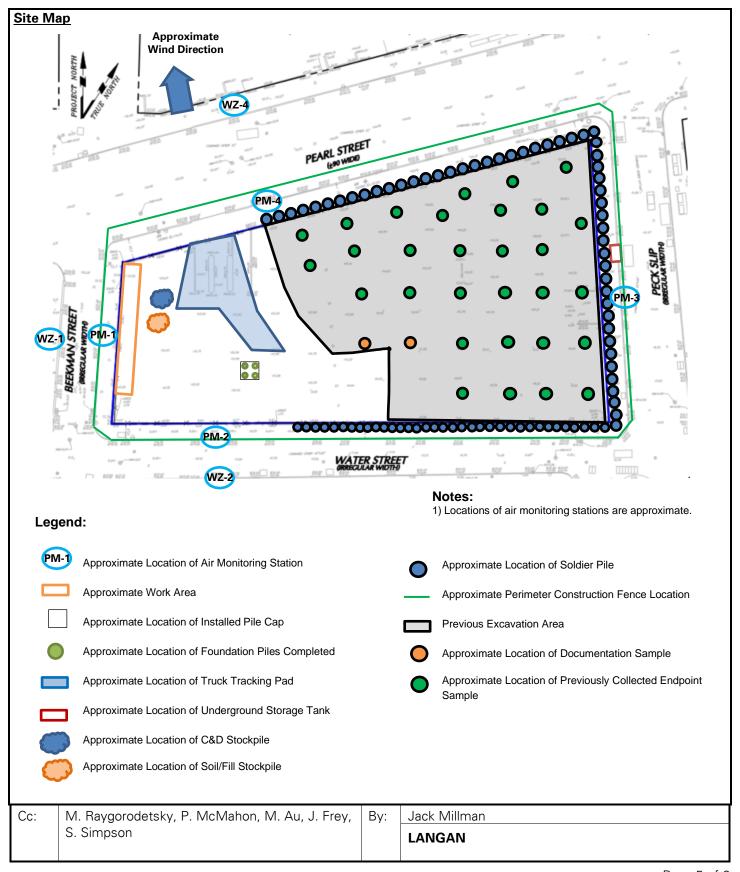
Jack Millman

LANGAN



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: ECD excavating soil/fill along Beekman Street (facing northwest)



Photo 2: CAMP station WZ-1 on the western sidewalk of Beekman Street (facing southeast)

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

By: Jack Millman

LANGAN



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

DATE: Friday, July 7, 2023

PROJECT:

250 Water Street

MONITOR

Partly Sunny, 75 - 85°F

WEATHER:

Wind: SSE @ 0.2 - 2.4 mph

LOCATION:

New York, NY

TIME:

5:45am - 4:15pm

Jack Millman

BCP SITE ID:

C231127

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

Day 155 Langan (Environmental) Jack Millman, Gabriella DeGennaro, Angelina

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

(NYSDEC) Rafi Alam

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 demolished existing asphalt and concrete in the southwestern part of the site. The construction and demolition (C&D) debris was temporarily stockpiled on and covered with polyethylene sheeting adjacent to the work area pending future off-site disposal.
- ECD excavated an about 25-foot-long by 5-foot-wide area and an about 15-foot-long by 5-foot-wide area to a maximum depth of about 4 feet below grade surface (bgs) to identify potential subsurface utilities and/or obstructions prior to support-of-excavation (SOE) installation in the southwestern part of the site (along Beekman and Water Streets).
 - 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 wasobserved. The excavated soil/fill was temporarily backfilled into the original location following removal of obstructions and/or confirmation that subsurface utilities were not present.
- ECD constructed wooden formwork in preparation for concrete guide wall installation in the southeastern part of the site. 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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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 Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone		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	8	184.42	0	0	15	339.65	336	8,216.79	
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 2)									
Facility Name Location Type of Material Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris		Lyndhurst, N	RRC IJ Construction n (C&D) Debris	Kear Hazardous L	of North Jersey my, NJ .ead-Impacted il/Fill	Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	95	1,900	216	4,320		

Material Export Summary (2 of 2)									
Facility Name Location Type of Material	East Bru	County Landfill Inswick, NJ rdous Soil/Fill	Keas	oil Management sbey, 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	261	5,220	267	5,340	66	1,320			

Sampling

No samples were collected

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



SITE OBSERVATION REPORT

CAMP Activities

Langan performed air monitoring at the perimeter of the site, at the western sidewalk of Beekman Street, and at the southern sidewalk of Water Street at six total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10) from about 6:35am to 3:05pm. 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 µg/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 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	0.011	0.00	0.01
PM-2	0.011	0.00	0.00
PM-3	0.010	0.00	0.01
PM-4	0.010	0.00	0.01
WZ-1	0.011	0.00	0.00
WZ-2	0.010	0.00	0.00
WZ-3	-	-	-
WZ-4	-	-	-

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.021	0.00	0.06
PM-2	0.024	0.03	0.00
PM-3	0.017	0.01	0.04
PM-4	0.016	0.03	0.03
WZ-1	0.020	0.00	0.01
WZ-2	0.017	0.01	0.01
WZ-3	-	-	-
WZ-4	-	-	-

•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 4 of 6

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 0.16 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 6:27am to 3:38pm during ground-intrusive activities along the western boundary of the site.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:35am to 3:43pm during ground-intrusive activities along the southern boundary of the site.

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. CAMP stations were discontinued sequentially between 3:05pm and 3:43pm.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.0 to 0.03 μg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Anticipated Activities

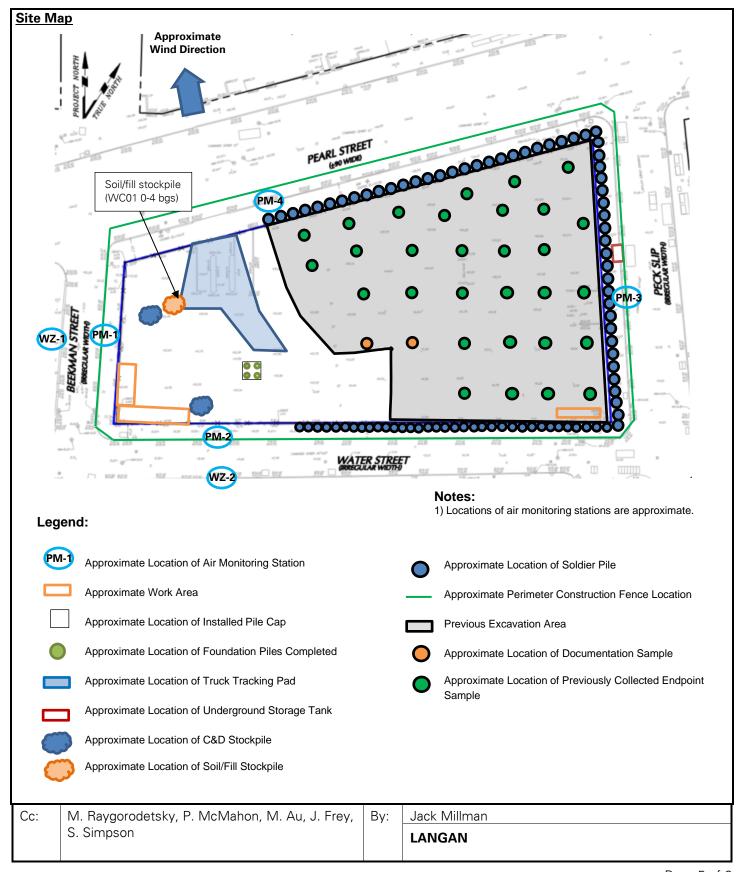
- ECD will continue excavating soil/fill along the perimeter of the site to identify potential subsurface utilities and/or obstructions prior to SOE installation.
- ECD will begin exporting C&D debris and soil/fill from the western part of the site for off-site disposal.

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



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: ECD excavating soil/fill in the southwestern part of the site (facing southwest)



Photo 2: Soil/fill stockpile on and covered with polyethylene sheeting in the northwestern part of the site (facing south)

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

Day 156



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

Monday, July 10, 2023

250 Water Street

PROJECT:

LLC c/o The Howard

Partly Sunny, 70 - 80°F

LOCATION:

New York, NY

WEATHER:

Wind: SSE @ 0.2 - 2.6 mph

TIME:

DATE:

5:45am - 4:45pm

BCP SITE ID: C231127 **MONITOR**

Jack Millman

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

Langan (Environmental) Jack Millman, Gabriella DeGennaro Suffolk Construction (Suffolk) (General Contractor) Anthony Galu East Coast Drilling, Inc. (ECD) (Foundation Contractor) Danny Rodgers **New York State Department of Environmental Conservation**

(NYSDEC) Rob Strang, Mike Sollecito **TRC Companies Inc.** (NYSDEC Consultant)

Earth Efficient (Soil Broker) Yinette Batista, Mike 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 demolished existing asphalt and concrete in the southwestern part of the site. The construction and demolition (C&D) debris was temporarily stockpiled on and covered with polyethylene sheeting in the northwestern part of the site pending future off-site disposal.
- ECD excavated an about 8-foot-long by 4-foot-wide area to a maximum depth of about 4 feet below grade surface (bgs) to identify potential subsurface utilities and/or obstructions prior to support-of-excavation (SOE) installation in the southwestern part of the site (along Water Street). A fiber optic cable was identified during excavation activities.
 - o 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. The excavated soil/fill was temporarily backfilled into the original location following removal of concrete obstructions.
- ECD poured concrete into the previously installed wooden formwork in the southeastern part of the site for concrete guide wall installation. 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



Page 2 of 7

SITE OBSERVATION REPORT

Material Tracking

- ECD exported three truckloads (about 60 cubic yards [CY]) of C&D (previously demolished concrete and asphalt) for off-site disposal at the Earth Efficient MSM facility located in East Stroudsburg, PA.
- ECD exported two truckloads (about 40 CY) of non-hazardous soil/fill from waste characterization cell WC01 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 Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone		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	8	184.42	0	0	15	339.65	336	8,216.79	
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	Brook Construction	Allocco Recycling Brooklyn, NY Construction & Demolition (C&D) Debris Lyndhurst, NJ C&D Debris		Earth Efficient MSM East Stroudsburg, PA C&D Debris		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	3	60	0	0
Project Total	5	85	42	840	3	60	95	1,900

Material Export Summary (2 of 3)							
Facility Name Location Type of Material	Location East Brunswick, NJ		Bayshore Soil Management Keasbey, NJ Petroleum-Impacted 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	2	40	0	0	0	0	
Project Total	263	5,260	267	5,340	66	1,320	

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



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SITE OBSERVATION REPORT

Material Export Summary (3 of 3)					
Facility Name Location Type of Material	Kear	of North Jersey rny, NJ dous Soil/Fill			
Quantities	No. of Loads	Approx. Volume (CY)			
Today	0	0			
Project Total	216	4,320			

<u>Sampling</u>

•	No samples	were	collected
•	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, 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 7:00am 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 μ 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 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	0.003	0.00	0.01
PM-3	0.002	0.00	0.01
PM-4	0.002	0.00	0.01
WZ-1	0.003	0.00	0.00
WZ-2	0.002	0.00	0.00
WZ-3	-	-	-
WZ-4	0.03	0.00	0.00

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.015	0.01	0.04
PM-2	0.018	0.03	0.02
PM-3	0.003	0.01	0.08
PM-4	0.004	0.06	0.05
WZ-1	0.013	0.02	0.01
WZ-2	0.003	0.01	0.01
WZ-3	-	-	-
WZ-4	0.008	0.01	0.00

•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



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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 0.17 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 6:23am to 4:03pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:26am to 4:17pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:29am to 4:08pm.

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. CAMP stations were discontinued sequentially between 3:46pm and 4:17pm.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.0 to 0.01 μg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Anticipated Activities

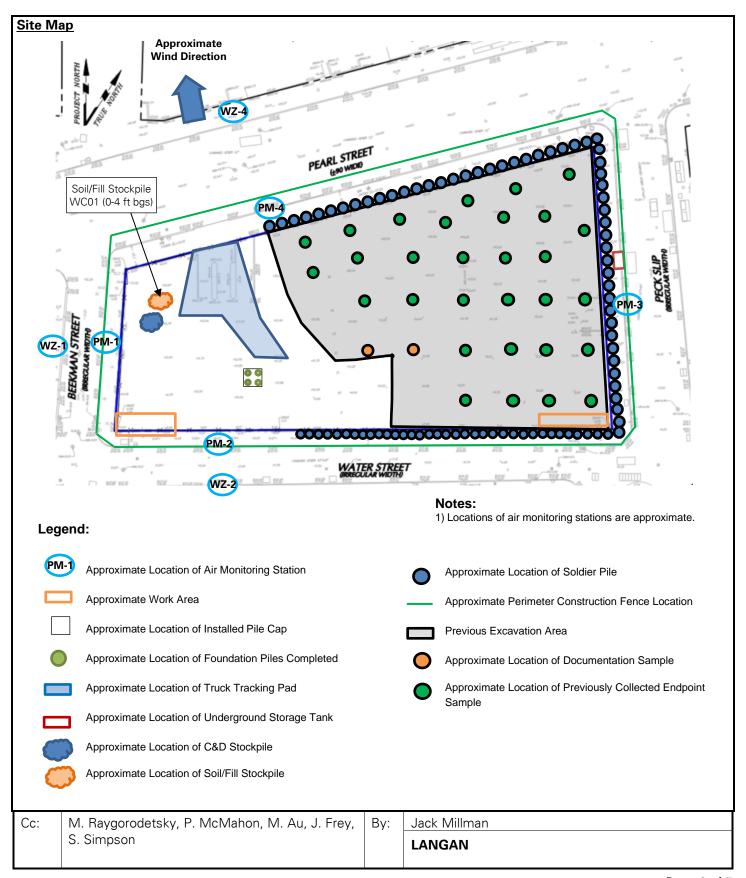
- ECD will continue excavating soil/fill along the perimeter of the site to identify potential subsurface utilities and/or obstructions prior to SOE installation.
- ECD will continue exporting C&D debris and soil/fill from the western part of the site for off-site disposal.

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



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: ECD washing a tri-axle truck prior to existing the site (facing north)



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

Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,
	0.00

ey, By:

Jack Millman

S. Simpson

LANGAN

Day 157



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

DATE: Tuesday, July 11, 2023

PROJECT:

250 Water Street

Partly Sunny, 70 – 85°F

WEATHER:

Wind: SE @ 0.2 – 1.8 mph

LOCATION:

New York, NY

TIME:

5:45am - 4:30pm

BCP SITE ID:

C231127

MONITOR

Jack Millman

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) Jack Millman, Gabriella DeGennaro, Jack Frey Suffolk Construction (Suffolk) (General Contractor) Anthony Galu East Coast Drilling, Inc. (ECD) (Foundation Contractor) Danny Rodgers **New York State Department of Environmental Conservation**

(NYSDEC) Rob Strang, Mike Sollecito

TRC Companies Inc. (TRC) (NYSDEC Consultant) Earth Efficient (Soil Broker) Mike 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 demolished existing asphalt and concrete in the northwestern part of the site. The construction and demolition (C&D) debris was temporarily stockpiled on and covered with polyethylene sheeting in the northwestern part of the site pending future off-site disposal.
- ECD excavated an about 10-foot-long by 5-foot-wide area to a maximum depth of about 4 feet below grade surface (bgs) to identify potential subsurface utilities and/or obstructions prior to support-of-excavation (SOE) installation in the northwestern part of the site (along Pearl Street).
 - o 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. The excavated soil/fill was temporarily backfilled into the original location following removal of concrete obstructions.
- ECD excavated an about 25-foot-long by 5-foot-wide area and an about 40-foot-long by 30-foot-wide area to a maximum depth of about 1 foot bgs to grade soil/fill beneath the stabilized construction entrance in the northwestern part of the site.
 - o Excavated soil/fill was screened for odors, staining, organic vapors, and mercury vapor using a handheld PID and handheld Jerome® J505 mercury vapor analyzer, respectively. Evidence of impacts was not observed and the soil/fill was temporarily stockpiled on and covered with polyethylene sheeting in the southwestern part of the site.
- ECD relocated a stockpile consisting of previously excavated soil/fill from the northwestern part of the site to the southwestern part of the site. The excavated soil/fill was temporarily placed on and covered with

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



Page 2 of 8

SITE OBSERVATION REPORT

	polyethylene sheeting in the former foundation pi in preparation for SOE installation along the south								r drill rig acces	S
•	ECD continued constructing wooden formwork southern part of the site. The concrete guide perimeter of the site.									
•	TRC mobilized equipment and personnel to administered by the NYSDEC.	the s	site	for i	mplem	nentation	of th	e off-site	investigation	ı
Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	: .	Jack	Millma	n				
	S. Simpson		L	LANC	GAN					



Page 3 of 8

SITE OBSERVATION REPORT

Material Tracking

- ECD exported four truckloads (about 80 cubic yards [CY]) of C&D (previously demolished concrete and asphalt) for off-site disposal at the Earth Efficient MSM facility located in East Stroudsburg, PA.
- No material was imported to the site.

	Material Import Summary							
Facility Name Location Type of Material	Haledon, NJ		Haled 0.75-ind	Stone Industries, Inc. Haledon, NJ 0.75-inch Virgin Stone		use & Recovery enter or erials Jersey City, /Jersey City, NJ llean 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	8	184.42	0	0	15	339.65	336	8,216.79
NYSDEC Approved:	1,800 tons*			720 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	Location Construction & Demolition		Lyndh	RRC urst, NJ Debris	East Stro	icient MSM udsburg, PA Debris	Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	4	80	0	0
Project Total	5	85	42	840	7	140	95	1,900

Material Export Summary (2 of 3)							
Facility Name Location Type of Material	Location 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	263	5,260	267	5,340	66	1,320	

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



Page 4 of 8

SITE OBSERVATION REPORT

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

<u>Sampling</u>

•	No samp	les were	collected.
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Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Jack Millman
	S. Simpson		LANGAN



Page 5 of 8

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 6:51am to 3:30pm. 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 μ 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 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	0.01
PM-2	0.007	0.00	0.00
PM-3	0.006	0.00	0.01
PM-4	0.007	0.00	0.01
WZ-1	0.007	0.00	0.00
WZ-2	0.007	0.00	0.00
WZ-3	-	-	-
WZ-4	0.07	0.00	0.00

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.016	0.05	0.03
PM-2	0.010	0.01	0.05
PM-3	0.008	0.00	0.03
PM-4	0.009	0.01	0.06
WZ-1	0.011	0.00	0.01
WZ-2	0.010	0.01	0.01
WZ-3	-	-	-
WZ-4	0.010	0.00	0.01

•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



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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 0.15 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 6:29am to 3:50pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:31am to 3:58pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:36am to 3:41pm.

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. CAMP stations were discontinued sequentially between 3:30pm and 3:58pm.

- 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

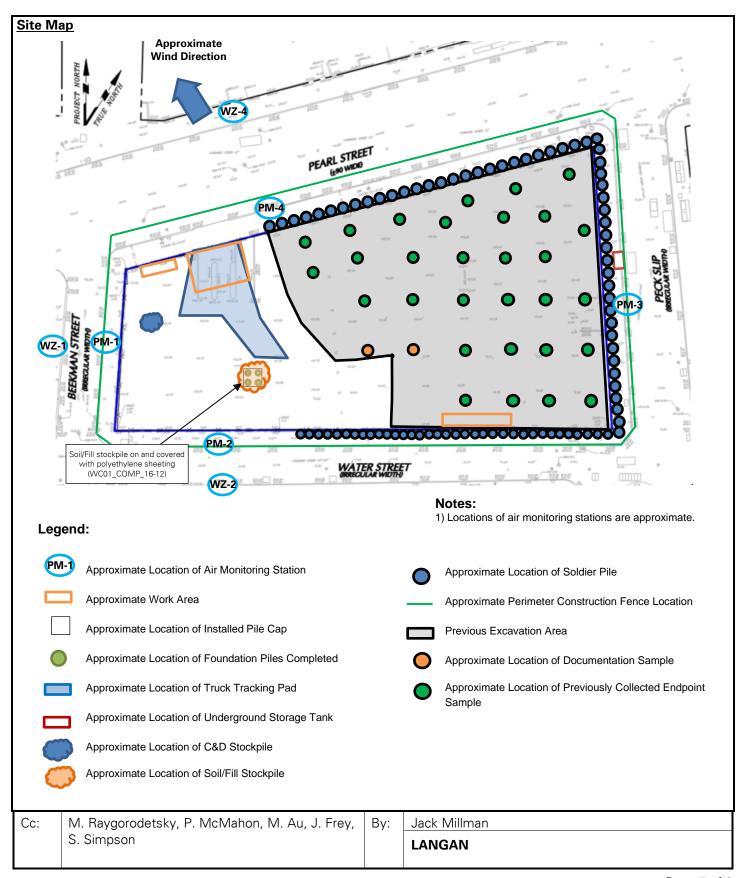
- ECD will continue excavating soil/fill along the perimeter of the site to identify potential subsurface utilities and/or obstructions prior to SOE installation.
- ECD will continue exporting C&D debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the southern part of the site.

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



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:

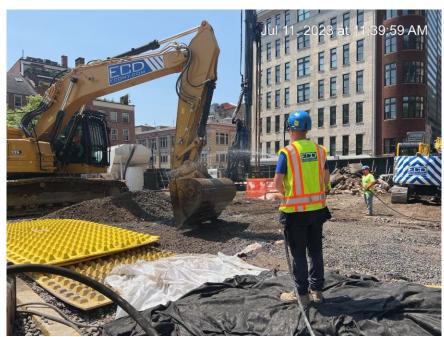


Photo 1: ECD exacavating soil/fill in the northwestern part of the site (facing southwest)



Photo 2: ECD excavating soil/fill in the northwestern part of the site (facing northwest)

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

Day 158



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

DATE: Wednesday, July 12, 2023

PROJECT:

250 Water Street

Partly Sunny, 75 – 90°F

LOCATION:

New York, NY

WEATHER:

Wind: SE @ 0.1 – 2.0 mph

TIME:

5:45am - 4:15pm

BCP SITE ID: C231127 **MONITOR**

Jack Millman

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) Jack Millman, Gabriella

DeGennaro, Pradeep Pandey

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

(NYSDEC) Rob Strang, Mike Sollecito

TRC Companies Inc. (TRC) (NYSDEC Consultant) Earth Efficient (Soil Broker) Mike DiGaetano

AKRF Inc. (Archaeologist)

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 demolished existing asphalt and concrete in the western part of the site. The construction and demolition (C&D) debris was temporarily stockpiled on and covered with polyethylene sheeting in the northwestern part of the site pending future off-site disposal.
- ECD excavated an about 110-foot-long by 5-foot-wide area and an about 50-foot-long by 5-foot-wide area to a maximum depth of about 7 feet below grade surface (bgs) to identify potential subsurface utilities and/or obstructions prior to support-of-excavation (SOE) installation in the western part of the site (along Beekman and Water Streets, respectively).
 - 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. The excavated soil/fill was temporarily backfilled into the original location following removal of concrete obstructions.
- ECD poured concrete into the previously installed wooden formwork in the southern part of the site for concrete guide wall installation. The concrete guide wall will be used to facilitate installation of SOE along the perimeter of the site.
- TRC continued implementation the off-site investigation administered by the NYSDEC.

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



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SITE OBSERVATION REPORT

Material Tracking

- ECD exported two truckloads (about 40 cubic yards [CY]) of C&D (previously demolished concrete and asphalt) for off-site disposal at the Earth Efficient MSM facility located in East Stroudsburg, PA.
- No material was imported to the site.

Material Import Summary								
Facility Name Location Type of Material	Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone		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	8	184.42	0	0	15	339.65	336	8,216.79
NYSDEC Approved:	1,800 tons*			72	0 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 Non-hazardous 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	2	40	0	0
Project Total	5	85	42	840	9	180	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	263	5,260	267	5,340	66	1,320	

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



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



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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 7:18am to 3:08pm. 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 μ 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 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	0.010	0.00	0.01
PM-2	0.011	0.00	0.00
PM-3	0.009	0.00	0.01
PM-4	0.010	0.00	0.01
WZ-1	0.010	0.00	0.00
WZ-2	0.010	0.00	0.00
WZ-3	-	-	-
WZ-4	0.011	0.00	0.00

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.015	0.00	0.02
PM-2	0.014	0.06	0.02
PM-3	0.012	0.01	0.03
PM-4	0.013	0.07	0.03
WZ-1	0.013	0.02	0.00
WZ-2	0.014	0.02	0.01
WZ-3	-	-	-
WZ-4	0.026	0.02	0.01

•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



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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 0.16 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 6:26am to 3:36pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:30am to 3:40pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:23am to 3:32pm.

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. CAMP stations were discontinued sequentially between 3:08pm and 3:40pm.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00 to 0.01 µg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Anticipated Activities

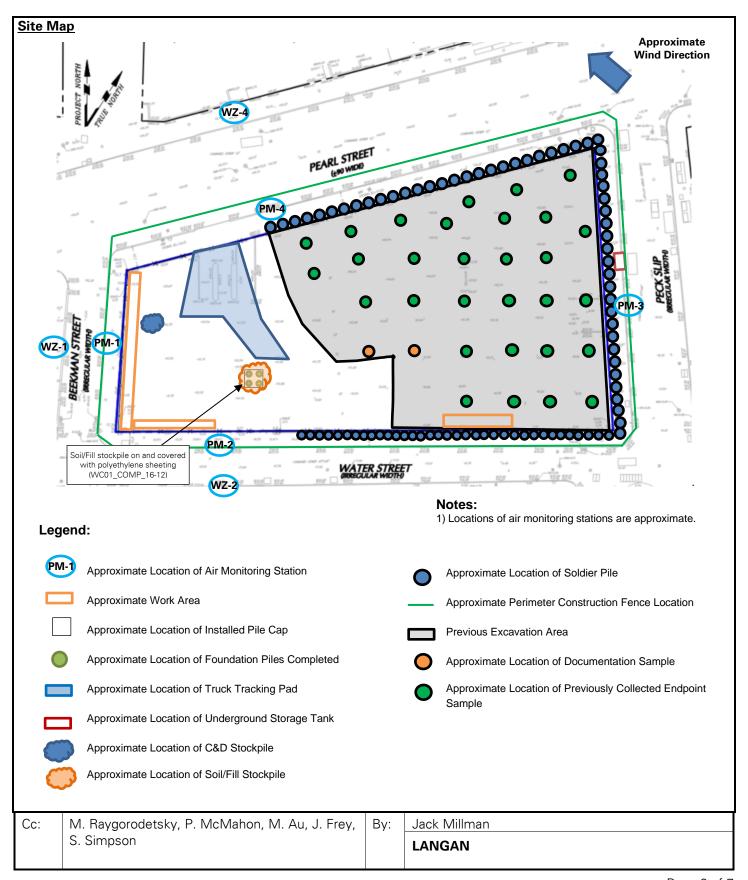
- ECD will continue excavating soil/fill along the perimeter of the site to identify potential subsurface utilities and/or obstructions prior to SOE installation.
- ECD will continue exporting C&D debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the southern part of the site.

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



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: C&D stockpile on and covered with polyethylene sheeting in the northwestern part of the site (facing northeast)

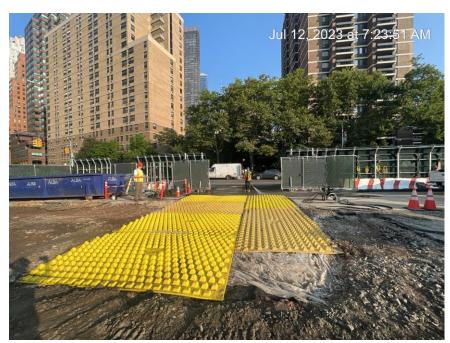


Photo 2: General view of construction entrance (facing northwest)

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

By: Jack Millman

LANGAN

Day 159



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

DATE: Thursday, July 13, 2023

PROJECT:

250 Water Street

Partly Sunny, 80 – 90°F

WEATHER:

Wind: SW @ 0.2 - 2.6 mph

LOCATION:

New York, NY

TIME:

5:45am - 4:00pm

BCP SITE ID:

C231127

MONITOR

Jack Millman

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) Jack Millman, Gabriella DeGennaro, Pradeep Pandey

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

(NYSDEC) Rob Strang, Mike Sollecito

TRC Companies Inc. (TRC) (NYSDEC Consultant) Earth Efficient (Soil Broker) Mike 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 demolished existing asphalt and concrete in the northern part of the site. The construction and demolition (C&D) debris was temporarily stockpiled on and covered with polyethylene sheeting in the northwestern part of the site pending future off-site disposal.
- ECD excavated an about 10-foot-long by 5-foot-wide area to a maximum depth of about 4 feet below grade surface (bgs) to identify potential subsurface utilities and/or obstructions prior to support-of-excavation (SOE) installation in the northern part of the site (along Pearl Street).
 - 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. The excavated soil/fill was temporarily backfilled into the original location following removal of concrete obstructions.
- ECD continued constructing wooden formwork in preparation for concrete guide wall installation in the eastern part of the site. The concrete guide wall will be used to facilitate installation of SOE along the perimeter of the site.
- ECD advanced a borehole to about 6 feet bgs in the northwestern part of the site to verify that the drill rig was operational prior to installation of SOE along the perimeter of the site. No drilling spoils were generated during advancement of the borehole.
- TRC continued implementation of the off-site investigation administered by the NYSDEC.

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



Page 2 of 7

SITE OBSERVATION REPORT

Material Tracking

- ECD exported one truckload (about 20 cubic yards [CY]) of C&D (previously demolished concrete and asphalt) for off-site disposal at the Earth Efficient MSM facility located in East Stroudsburg, PA.
- No material was imported to the site.

Material Import Summary								
Facility Name Location Type of Material	n Haledon, NJ 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	8	184.42	0	0	15	339.65	336	8,216.79
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 Non-hazardous 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	1	20	0	0	
Project Total	5	85	42	840	10	200	95	1,900	

Material Export Summary (2 of 3)							
Facility Name Location Type of Material	Location 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	263	5,260	267	5,340	66	1,320	

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



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SITE OBSERVATION REPORT

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				

<u>Sampling</u>

 No samples were collected 	₽d.
---	-----

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, 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 6:46am to 3:26pm. 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 μ 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 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	0.011	0.00	0.01
PM-2	0.010	0.00	0.01
PM-3	0.009	0.00	0.01
PM-4	0.010	0.00	0.01
WZ-1	0.010	0.00	0.00
WZ-2	0.010	0.00	0.00
WZ-3	-	-	-
WZ-4	0.011	0.00	0.00

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.018	0.03	0.02
PM-2	0.015	0.04	0.03
PM-3	0.015	0.02	0.02
PM-4	0.013	0.02	0.02
WZ-1	0.014	0.00	0.01
WZ-2	0.016	0.00	0.01
WZ-3	-	-	-
WZ-4	0.015	0.00	0.01

•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 0.16 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 6:28am to 3:45pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:30am to 3:50pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:33am to 3:40pm.

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. CAMP stations were discontinued sequentially between 3:26pm and 3:50pm.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00 to 0.01 µg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Anticipated Activities

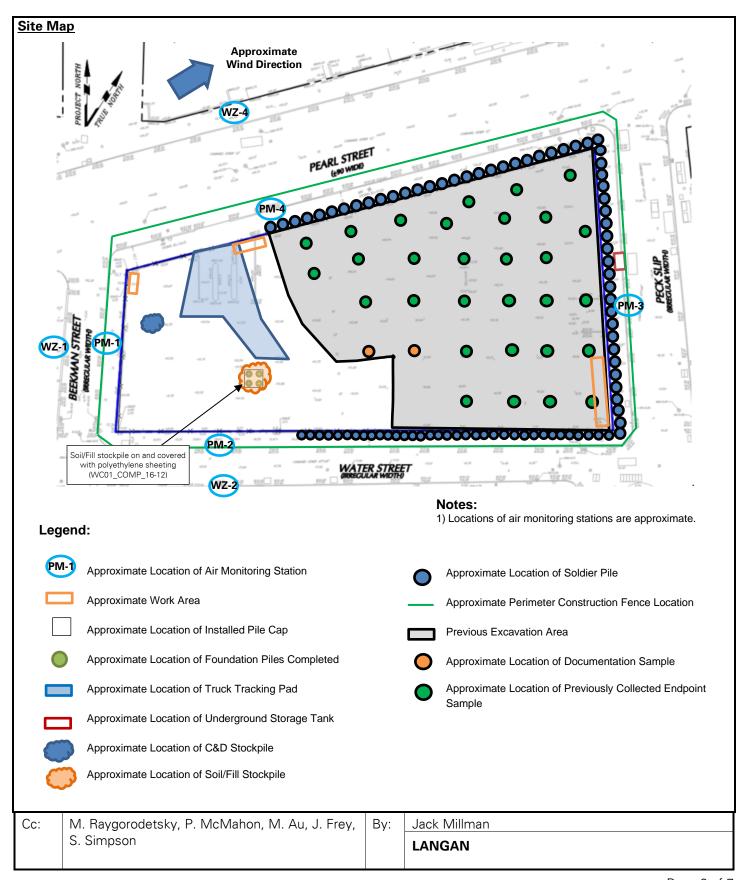
- ECD will continue excavating soil/fill along the perimeter of the site to identify potential subsurface utilities and/or obstructions prior to SOE installation.
- ECD will continue exporting C&D debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the southern part of the site.
- ECD will begin installing shallow soil mixing columns for SOE installation 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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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:

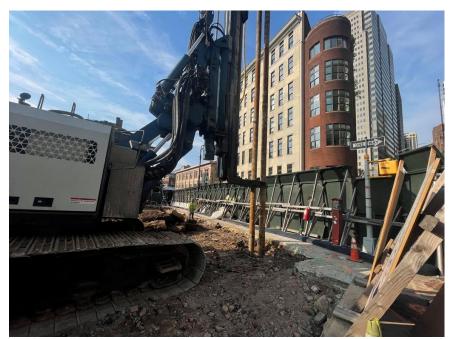


Photo 1: ECD advancing a borehole in the northwestern part of the site (facing southwest)



Photo 2: ECD implementing dust suppression in the central part of the site (facing south)

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

S. Simpson

By: Jack Millman

LANGAN

Day 160



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

DATE: Friday, July 14, 2023

PROJECT:

250 Water Street

Overcast/Rain, 70 - 80°F

WEATHER:

Wind: SW @ 0.2 - 2.3 mph

LOCATION:

New York, NY

TIME:

5:45am - 3:15pm

BCP SITE ID:

C231127

MONITOR

Jack Millman

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) Jack Millman, Gabriella DeGennaro, Pradeep Pandey

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

(NYSDEC) Rob Strang, Mike Sollecito

TRC Companies Inc. (TRC) (NYSDEC Consultant) Earth Efficient (Soil Broker) Mike 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 demolished existing asphalt and concrete in the northern and southern parts of the site. The construction and demolition (C&D) debris was temporarily stockpiled on and covered with polyethylene sheeting in the northwestern part of the site pending future off-site disposal.
- ECD excavated an about 10-foot-long by 5-foot-wide area and an about 2-foot-long by 2-foot-wide area to a maximum depth of about 4 feet below grade surface (bgs) to identify potential subsurface utilities and/or obstructions prior to support-of-excavation (SOE) installation in the southern and northern parts of the site (along Water and Pearl Streets, respectively).
 - o 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. The excavated soil/fill was temporarily backfilled into the original location following removal of concrete obstructions.
- ECD continued constructing wooden formwork in preparation for concrete guide wall installation in the eastern part of the site. The concrete guide wall will be used to facilitate installation of SOE along the perimeter of the site.
- ECD advanced two boreholes to a maximum depth of about 12 feet bgs in the western and southwestern parts of the site to verify that the drill rig was operational prior to installation of SOE along the perimeter of the site. No drilling spoils were generated during advancement of the borehole.
- TRC continued implementation of the off-site investigation administered by the NYSDEC.

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



Page 2 of 7

SITE OBSERVATION REPORT

Material Tracking

• ECD exported one truckload (about 20 cubic yards [CY]) of C&D (previously demolished concrete and asphalt) for off-site disposal at the Earth Efficient MSM facility located in East Stroudsburg, PA.

• No material was imported to the site.

Material Import Summary								
Facility Name Location Type of Material	Hal 1.5/2.5	one Industries, Inc. Haledon, NJ Haledon, NJ 1.5/2.5-inch Virgin Stone Stone 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	8	184.42	0	0	15	339.65	336	8,216.79
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	Brook Construction	Recycling klyn, NY n & Demolition) Debris	Lyndh	RRC urst, NJ Debris	Earth Efficient MSM East Stroudsburg, PA C&D Debris		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	1	20	0	0
Project Total	5	85	42	840	11	220	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	263	5,260	267	5,340	66	1,320	

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



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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			

Sampling

•	No	samp	les	were	col	lect	ted.
---	----	------	-----	------	-----	------	------

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, 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 6:45am to 2:25pm. 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 μ 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 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	0.00
PM-2	0.008	0.00	0.00
PM-3	0.007	0.00	0.00
PM-4	0.007	0.00	0.01
WZ-1	0.007	0.00	0.01
WZ-2	0.008	0.00	0.00
WZ-3	-	-	-
WZ-4	0.008	0.00	0.00

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.013	0.00	0.02
PM-2	0.014	0.00	0.01
PM-3	0.012	0.00	0.01
PM-4	0.013	0.00	0.02
WZ-1	0.013	0.00	0.23
WZ-2	0.014	0.00	0.01
WZ-3	-	-	-
WZ-4	0.014	0.03	0.01

•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



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SITE OBSERVATION REPORT

• Two instantaneous mercury vapor concentrations of 2.25 µg/m³ and 1.12 µg/m³ were detected at off-site CAMP station WZ-1, located west of perimeter CAMP station PM-1, between 7:25am and 7:26am, respectively. The 15-minute time-weighted-average action level established in the CAMP (1.00 µg/m³) was not exceeded as a result of the instantaneous detections. Perimeter CAMP station PM-1 was located between the work zone and CAMP station WZ-1 during this time, and mercury vapor was not detected at concentrations above 0.00 µg/m³. Additionally, the dedicated CAMP monitor used a handheld Jerome® J505 mercury vapor analyzer to monitor ambient air conditions surrounding CAMP station WZ-1 following the instantaneous detections, and mercury vapor readings were recorded at 0.00 µg/m³. As such, the instantaneous mercury vapor detections were attributed to an off-site source or external interference. As a precautionary measure, the dedicated CAMP monitor replaced the internal filter in the Jerome® J505 unit within off-site CAMP station WZ-1.

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 6:23am to 2:43pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:25am to 2:46pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:21am to 2:38pm.

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. CAMP stations were discontinued sequentially between 2:25pm and 2:46pm.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00 to 0.01 μg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Anticipated Activities

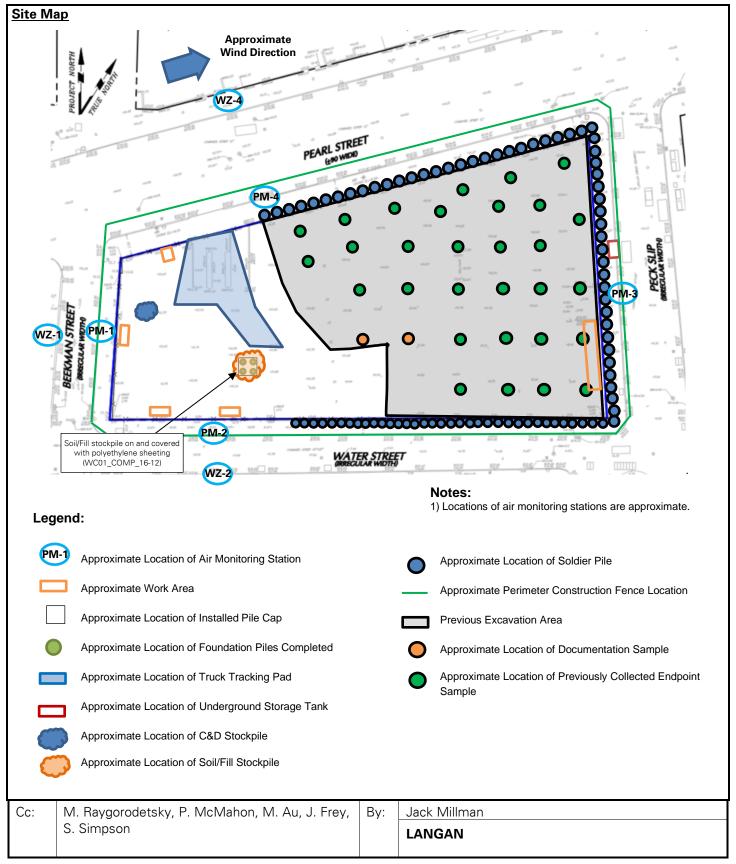
- ECD will continue excavating soil/fill along the perimeter of the site to identify potential subsurface utilities and/or obstructions prior to SOE installation.
- ECD will continue exporting C&D debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the eastern part of the site.
- ECD will begin installing shallow soil mixing columns for SOE installation along the perimeter of the site.

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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: ECD advancing a borehole in the western part of the site (facing north)



Photo 2: View of CAMP station WZ-2 on the southern sidewalk of Water Street (facing east)

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

Day 161



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

DATE: Monday, July 17, 2023

PROJECT:

250 Water Street

WEATHER:

Partly Sunny, 75 – 85°F

200 Water Officer

c/o The Howard Hughes Corporation

250 Seaport District.

Wind: SW @ 0.2 – 1.7 mph

LOCATION: New York, NY

TIME: 5:45am – 4:15pm

BCP SITE ID: C231127

MONITOR Jack Millman

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:

Langan (Environmental) Jack Millman, Gabriella DeGennaro
Suffolk Construction (Suffolk) (General Contractor) Anthony Galu
East Coast Drilling, Inc. (ECD) (Foundation Contractor) Danny Rodgers
New York State Department of Environmental Conservation

(NYSDEC) Meghan Medwig, Mike Sollecito

TRC Companies Inc. (TRC) (NYSDEC Consultant)

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 demolished existing asphalt and concrete in the northern and southern parts of the site. The construction and demolition (C&D) debris was temporarily stockpiled on and covered with polyethylene sheeting in the northwestern part of the site pending future off-site disposal.
- ECD excavated an about 45-foot-long by 10-foot-wide area and an about 10-foot-long by 5-foot-wide area to a maximum depth of about 4 feet below grade surface (bgs) to identify potential subsurface utilities and/or obstructions prior to support-of-excavation (SOE) installation in the southern and northern parts of the site (along Water and Pearl Streets, respectively).
 - 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. The excavated soil/fill was temporarily backfilled into the original location following removal of concrete obstructions.
 - o Atmos® AC-645 dust/vapor suppressing foam was actively applied to the soil/fill during excavation as a proactive measure.
- ECD poured concrete into the previously installed wooden formwork in the eastern part of the site for concrete guide wall installation. The concrete guide wall will be used to facilitate installation of SOE along the perimeter of the site.
- TRC continued implementation of the off-site investigation administered by the NYSDEC.

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	Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone Stone Stone Stone 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	8	184.42	0	0	15	339.65	336	8,216.79
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	Brook Construction	Brooklyn, NY nstruction & Demolition Lyndh		Lyndhurst, NJ East St		Earth Efficient MSM East Stroudsburg, PA C&D Debris		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	11	220	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	263	5,260	267	5,340	66	1,320

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



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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			

Sampling

•	No samp	les were	collected.
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Cc: M. Raygorodetsky, P. McMahon, M. Au, J. Frey, S. Simpson

By: Jack Millman

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, 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 7:10am to 3:23pm. 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 μ 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 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	0.016	0.00	0.01
PM-2	0.016	0.00	0.00
PM-3	0.015	0.00	0.01
PM-4	0.015	0.00	0.01
WZ-1	0.016	0.00	0.00
WZ-2	0.016	0.00	0.00
WZ-3	-	-	-
WZ-4	0.016	0.00	0.00

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.034	0.01	0.19
PM-2	0.036	0.02	0.02
PM-3	0.034	0.00	0.10
PM-4	0.037	0.07	0.12
WZ-1	0.041	0.07	0.01
WZ-2	0.039	0.01	0.02
WZ-3	-	-	-
WZ-4	0.044	0.00	0.01

•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



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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 6:24am to 3:40pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:35am to 3:43pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:20am to 3:34pm.

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. CAMP stations were discontinued sequentially between 3:23pm and 3:40pm.

- 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

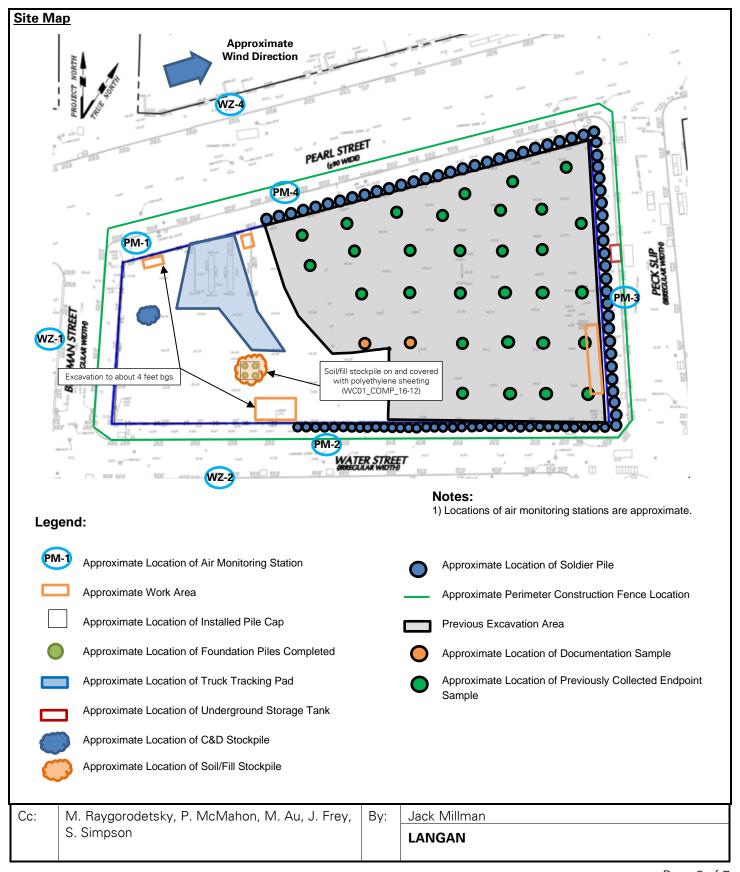
- ECD will continue excavating soil/fill along the perimeter of the site to identify potential subsurface utilities and/or obstructions prior to SOE installation.
- ECD will continue exporting C&D debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the eastern part of the site.

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 actively applying Atmos® AC-645 dust/vapor suppressing foam to soil/fill during excavation in the southern part of the site (facing northeast)

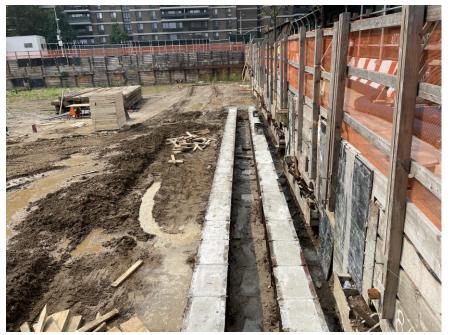


Photo 2: Concrete guide wall in the eastern part of the site (facing north)

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

LANGAN

Day 162



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

Tuesday, July 18, 2023

PROJECT:

250 Water Street

14/F 4 TI II

Overcast, 75 – 82°F

LOCATION:

New York, NY

WEATHER:

Wind: SW @ 0.1 - 1.5 mph

TIME:

DATE:

5:45am - 4:15pm

MONITOR

Jack Millman

EQUIPMENT:

BCP SITE ID:

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

C231127

PRESENT AT SITE:

250 Seaport District.

Hughes Corporation

c/o The Howard

Langan (Environmental) Jack Millman, Gabriella DeGennaro Suffolk Construction (Suffolk) (General Contractor) Anthony Galu East Coast Drilling, Inc. (ECD) (Foundation Contractor) Danny Rodgers New York State Department of Environmental Conservation (NYSDEC) Meghan Medwig, Mike Sollecito

TRC Companies Inc. (TRC) (NYSDEC Consultant)

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 demolished existing asphalt and concrete in the northern part of the site. The construction and demolition (C&D) debris was temporarily stockpiled on and covered with polyethylene sheeting in the northwestern part of the site pending future off-site disposal.
- ECD excavated an about 10-foot-long by 5-foot-wide area to a maximum depth of about 4 feet below grade surface (bgs) to identify potential subsurface utilities and/or obstructions prior to support-of-excavation (SOE) installation in the northern part of the site (along Pearl Street).
 - 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. The excavated soil/fill was temporarily backfilled into the original location following removal of concrete obstructions.
- ECD continued constructing wooden formwork in preparation for concrete guide wall installation in the
 eastern part of the site. The concrete guide wall will be used to facilitate installation of SOE along the
 perimeter of the site.
- TRC completed the scope of work included in their initial mobilization for the off-site investigation administered by the NYSDEC. NYSDEC and TRC will continue the off-site investigation at a later date.

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



Page 2 of 7

SITE OBSERVATION REPORT

Material Tracking

• ECD exported two truckloads (about 40 cubic yards [CY]) of C&D (previously demolished concrete and asphalt) for off-site disposal at the Earth Efficient MSM facility located in East Stroudsburg, PA.

• 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	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	8	184.42	0	0	15	339.65	336	8,216.79
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	Brook Construction	Recycling klyn, NY Lyndhurst, NJ C&D Debris		Lyndhurst, NJ		Earth Efficient MSM East Stroudsburg, PA C&D Debris		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	2	40	0	0	
Project Total	5	85	42	840	13	260	95	1,900	

	Material Export Summary (2 of 3)						
Facility Name Location Type of Material	n East Brunswick, NJ		cation 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	0	0	0	0	0	0	
Project Total	263	5,260	267	5,340	66	1,320	

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



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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 	₽d.
---	-----

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



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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 6:48am to 3:23pm. 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 μ 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 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	0.022	0.00	0.01
PM-2	0.022	0.00	0.01
PM-3	0.021	0.00	0.00
PM-4	0.021	0.00	0.01
WZ-1	0.022	0.00	0.00
WZ-2	0.022	0.00	0.00
WZ-3	-	-	-
WZ-4	0.023	0.00	0.00

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.036	0.01	0.05
PM-2	0.035	0.00	0.02
PM-3	0.034	0.02	0.02
PM-4	0.037	0.00	0.02
WZ-1	0.035	0.00	0.00
WZ-2	0.041	0.00	0.01
WZ-3	-	-	-
WZ-4	0.037	0.01	0.01

•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



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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 0.08 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 6:33am to 2:24pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:28am to 2:27pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:36am to 2:17pm.

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 3:23pm and 3:29pm.

- 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

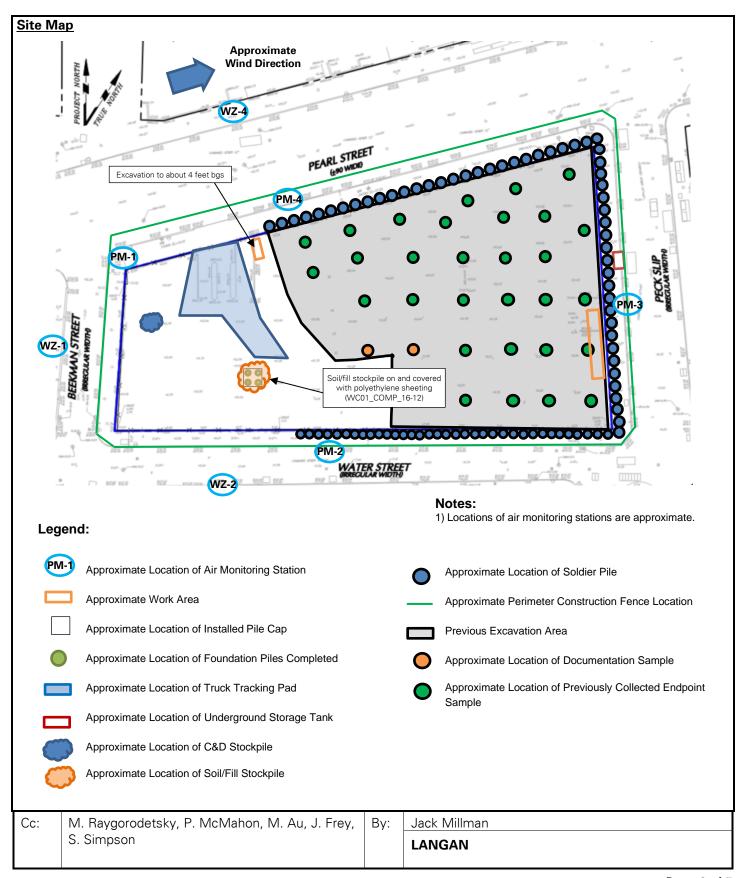
- ECD will continue excavating soil/fill along the perimeter of the site to identify potential subsurface utilities and/or obstructions prior to SOE installation.
- ECD will continue exporting C&D debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the eastern part of the site.

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



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: General view of the site (facing west)

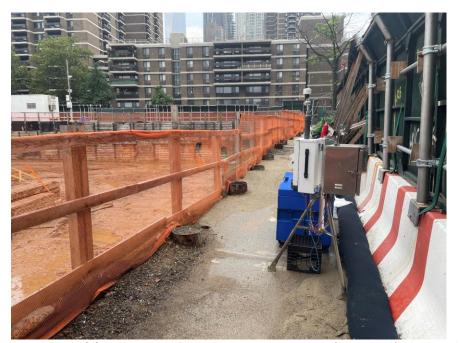


Photo 2: View of CAMP station PM-3 in the eastern part of the site (facing north)

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

By: Jack Millman

LANGAN



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

Wednesday, July 19, 2023

PROJECT:

250 Water Street

WEATHER:

Overcast/Rain, 70 - 80° F

c/o The Howard **Hughes Corporation**

250 Seaport District,

Wind: WSW @ 0.1 - 1.4 mph

LOCATION: New York, NY

TIME:

DATE:

5:45am - 5:15pm

BCP SITE ID: C231127 **MONITOR**

Jack Millman

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:

Day 163 Langan (Environmental) Jack Millman, Aron Farber, TJ Malgieri, Seyena

Suffolk Construction (Suffolk) (General Contractor) Anthony Galu 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 an about 20-foot-long by 10-foot-wide area to a maximum depth of about 4 feet below grade surface (bgs) to identify potential subsurface utilities and/or obstructions prior to support-of-excavation (SOE) installation in the southwestern part of the site (along Water Street).
 - 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. The excavated soil/fill was temporarily backfilled into the original location following removal of concrete obstructions.
- ECD poured concrete into the previously installed wooden formwork in the eastern part of the site for concrete guide wall installation. 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



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	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	8	184.42	0	0	15	339.65	336	8,216.79
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	Brook Construction	Recycling klyn, NY n & Demolition) Debris	IRRC Lyndhurst, NJ C&D Debris		Earth Efficient MSM East Stroudsburg, PA C&D Debris		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	13	260	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	263	5,260	267	5,340	66	1,320	

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



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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	samp	les	were	col	lect	ted.
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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, 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 7:00am to 4:51pm. 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 μ 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 ranged from 0.00 to 0.01 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	0.037	0.00	0.01
PM-2	0.037	0.00	0.01
PM-3	0.035	0.01	0.00
PM-4	0.037	0.00	0.01
WZ-1	0.037	0.00	0.00
WZ-2	0.037	0.00	0.00
WZ-3	-	-	-
WZ-4	0.038	0.00	0.00

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.071	0.00	0.02
PM-2	0.051	0.01	0.02
PM-3	0.050	0.20	0.02
PM-4	0.055	0.00	0.03
WZ-1	0.045	0.00	0.01
WZ-2	0.045	0.01	0.01
WZ-3	-	-	-
WZ-4	0.047	0.03	0.01

•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



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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 0.16 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 6:36am to 4:27pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:39am to 4:30pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:34am to 4:17pm.

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 4:51pm and 4:58pm.

- 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.

Anticipated Activities

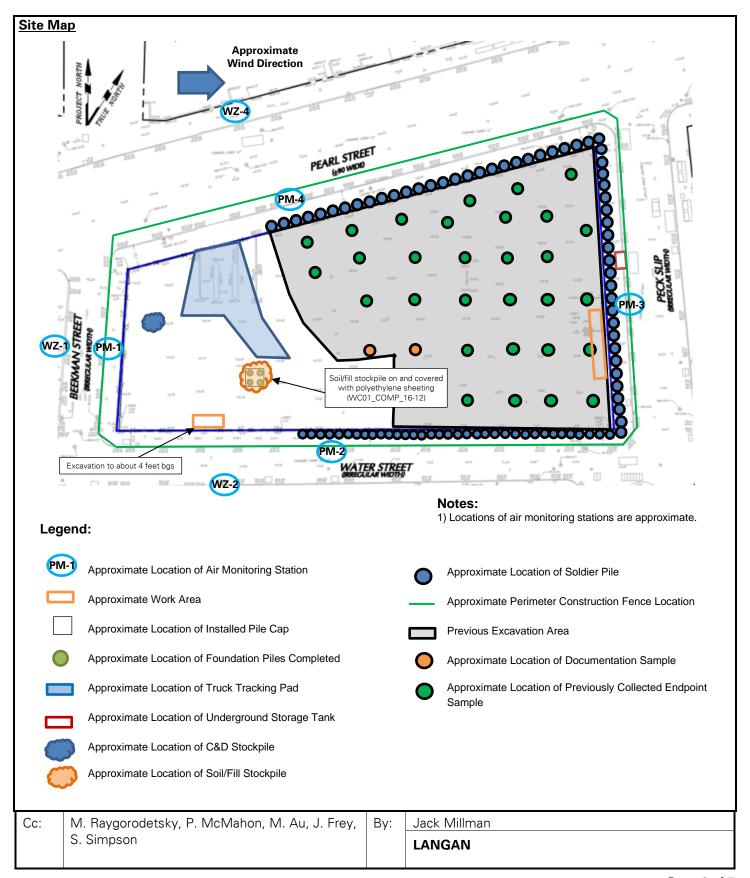
- ECD will continue excavating soil/fill along the perimeter of the site to identify potential subsurface utilities and/or obstructions prior to SOE installation.
- ECD will continue exporting C&D debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the northern part of the site.

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



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: Concrete guide wall in the eastern part of the site (facing north)

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

By: Jack Millman

LANGAN

Day 164



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

DATE: Thursday, July 20, 2023

PROJECT:

250 Water Street

LLC

weather:

Partly Cloudy, 72 – 86° F

c/o The Howard

Wind: W @ 0.2 – 2.6 mph

LOCATION: New York, NY

Hughes Corporation TIME:

5:45am – 3:45pm

MONITOR

Jack Millman

EQUIPMENT:

BCP SITE ID:

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

C231127

PRESENT AT SITE:

250 Seaport District,

Langan (Environmental) Jack Millman, Aron Farber

Suffolk Construction (Suffolk) (General Contractor) Anthony Galu 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 graded an about 20-foot-long by 50-foot-wide area to facilitate support-of-excavation (SOE) installation in the northern part of the site (along Pearl 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.
- ECD continued constructing wooden formwork in preparation for concrete guide wall installation in the northern part of the site. 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



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	Stone Industries, Inc. Haledon, NJ Haledon, NJ 1.5/2.5-inch Virgin Stone Stone 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	8	184.42	0	0	15	339.65	336	8,216.79
NYSDEC Approved:	1,800 tons*			7:	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	Location Construction & Demolition Lyndhurst, NJ		Earth Efficient MSM East Stroudsburg, PA C&D Debris		Clean Earth of North Jersey Kearny, NJ Non-hazardous 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	13	260	95	1,900

	Material Export Summary (2 of 3)						
Facility Name Location Type of Material	East Brunswick, NJ		cation 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	0	0	0	0	0	0	
Project Total	263	5,260	267	5,340	66	1,320	

Cc: M. Ray	gorodetsky, P. McMahon, M. Au, J. Frey,	By:	Jack Millman
S. Simp	son		LANGAN



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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>

•	Νo	samp	es	were	col	lect	ed.
---	----	------	----	------	-----	------	-----

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, 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 6:39am to 3:07pm. 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 μ 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 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	0.023	0.00	0.01
PM-2	0.024	0.00	0.01
PM-3	0.022	0.00	0.01
PM-4	0.023	0.00	0.01
WZ-1	0.026	0.00	0.00
WZ-2	0.023	* 0.19	0.01
WZ-3	-	-	-
WZ-4	0.024	0.00	0.00

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.078	0.00	0.04
PM-2	0.085	0.02	0.02
PM-3	0.084	0.00	0.02
PM-4	0.094	0.00	0.03
WZ-1	0.071	0.03	0.01
WZ-2	0.070	* 3.00	0.02
WZ-3	-	-	-
WZ-4	0.069	0.00	0.01

•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

Equipment Calibration

* Routine maintenance was conducted for off-site CAMP station WZ-2 between 12:27pm and 1:05pm for monthly calibration of the VOC module within the station. Isobutylene gas with a concentration of 5 ppm was used to complete the calibration. No ground-intrusive activities were completed during this time and the VOC detections were the result of calibration activities that were not reflective of the work completed during this time.

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 6:22am to 3:03pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:26am to 3:25pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:19am to 3:19pm.

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 3:07pm and 3:14pm.

- 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

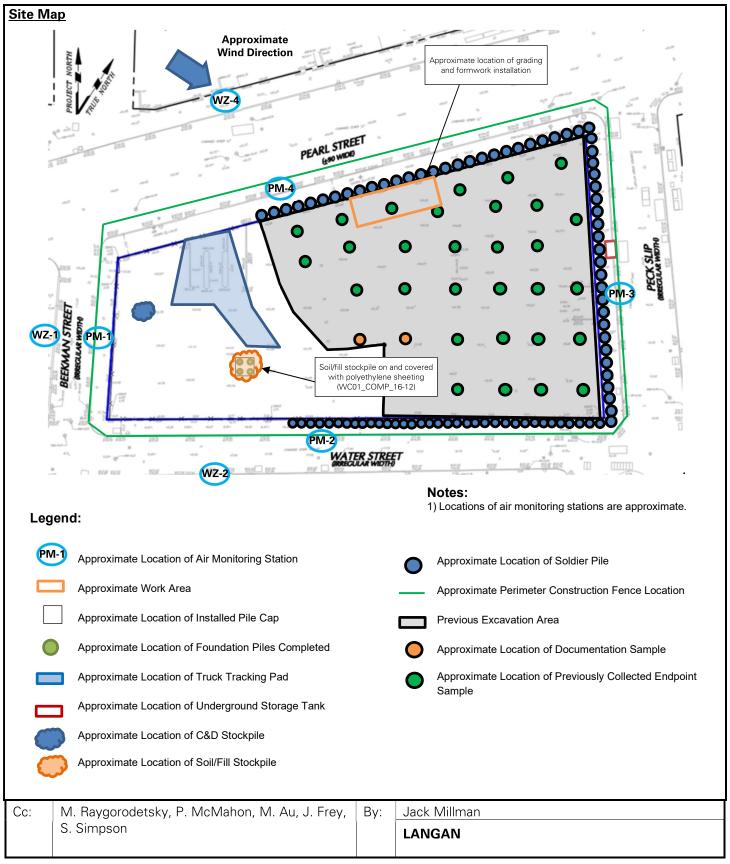
- ECD will continue exporting C&D debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the northern part of the site.

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 grading soil/fill in the northern part of the site (facing southwest)

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

Day 165



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

Friday, July 21, 2023

PROJECT:

250 Water Street

c/o The Howard

Partly Cloudy/Rain, 70 - 85° F

WEATHER:

Wind: SW @ 0.2 – 1.6 mph

LOCATION: New York, NY

TIME:

DATE:

5:45am - 3:15pm

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

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

Langan (Environmental) Jack Millman, Aron Farber Suffolk Construction (Suffolk) (General Contractor) Anthony Galu

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 continued constructing wooden formwork in preparation for concrete guide wall installation in the northern part of the site (Pearl Street). The concrete guide wall will be used to facilitate installation of SOE along the perimeter of the site.
- Ground-intrusive activities were not conducted throughout the workday; however, Langan implemented the community air monitoring plan (CAMP).

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



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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 Location Type of Material	Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone		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	8	184.42	0	0	15	339.65	336	8,216.79
NYSDEC Approved:	1,800 tons*			720 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	13	260	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	263	5,260	267	5,340	66	1,320	

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	S. Simpson		LANGAN



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SITE OBSERVATION REPORT

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 collect 	ed.
---	-----

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



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SITE OBSERVATION REPORT

CAMP Activities

Langan performed air monitoring at the perimeter of the site at four locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10) from about 6:25am to 2:37pm. There were no fifteen-minute average concentrations for mercury vapor, VOCs or PM10 that approached or exceeded the action levels established by the CAMP ($1.00 \mu g/m^3$, 5.0 ppm, or $0.100 mg/m^3$, 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 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	0.010	0.00	0.01
PM-2	0.010 0.00		0.01
PM-3	0.009	0.00	0.00
PM-4	0.010	0.00	0.01
WZ-1	-	-	-
WZ-2	-	-	-
WZ-3	-	-	-
WZ-4	-	-	-

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.027	0.00	0.05
PM-2	1-2 0.030 0.01		0.02
PM-3	0.031	0.00	0.01
PM-4	0.037	0.00	0.04
WZ-1	-	-	-
WZ-2	-	-	-
WZ-3	-	-	-
WZ-4	-	-	-

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

Equipment Calibration

• Routine maintenance was conducted for off-site CAMP stations WZ-1, WZ-2, and WZ-4 for monthly calibration of the VOC modules within the stations using 5 ppm isobutylene gas. Off-site CAMP stations WZ-1, WZ-2,

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SITE OBSERVATION REPORT

and WZ-4 were not included in the CAMP implementation due to a lack of ground-intrusive activities during the workday.

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.

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 2:37pm and 2:44pm.

- 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

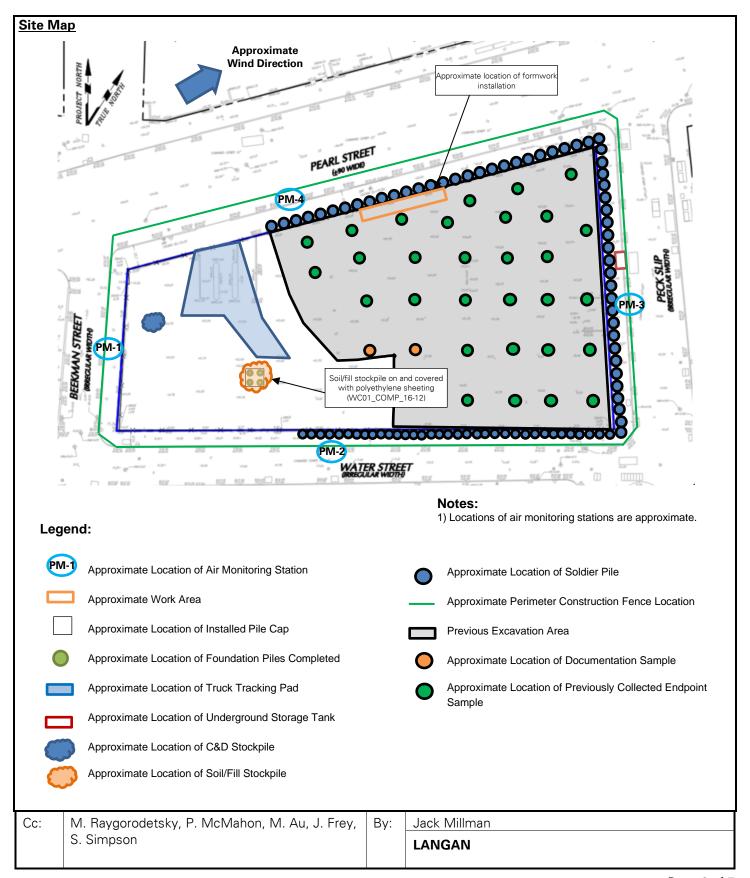
- ECD will continue exporting concrete and demolition (C&D) debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the northern part of the site.
- ECD will import general fill from the Import Reuse and Recovery Center (IRRC) facility, located in Lyndhurst, NJ to create a temporary equipment ramp in the northeastern corner of the site.

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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:

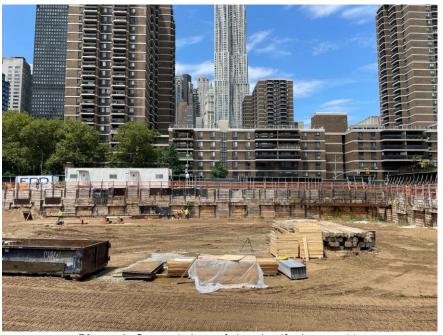


Photo 1: General view of the site (facing north)



Photo 2: ECD constructing wooden formwork in preparation for concrete guide wall installation in the northern part of the site (facing west)

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Day 166



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

DATE: Monday, July 24, 2023

PROJECT:

LOCATION:

250 Water Street

weather:

Partly Sunny, 75 – 84° F

250 vvater Street

c/o The Howard Hughes Corporation

250 Seaport District,

Wind: NW @ 0.3 - 3.1 mph

New York, NY TIME:

5:45am - 4:00pm

BCP SITE ID: C231127

MONITOR Jack Millman

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:

Langan (Environmental) Jack Millman, Aron Farber

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

(NYSDEC) Rafi Alam

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 placed imported general fill in an about 35-foot-long by 40-foot-wide area in the northeastern corner of the site (Pearl Street and Peck Slip) to create a temporary ramp for equipment access. The imported general fill was placed atop a layer of geotextile fabric and polyethylene sheeting.
- ECD continued constructing wooden formwork in preparation for concrete guide wall installation in the northern part of the site (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
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SITE OBSERVATION REPORT

Material Tracking

- ECD exported one truckload (about 20 cubic yards [CY]) of construction and demolition (C&D) debris (previously demolished concrete and asphalt) for off-site disposal at the Earth Efficient MSM facility located in East Stroudsburg, PA.
- ECD imported 10 truckloads (234.75 tons) of general fill from the Impact Reuse & Recovery Center (IRRC) facility, located in Lyndhurst, NJ.

	Material Import Summary									
Facility Name Location Type of Material	Location Haledon, NJ Ha		Haled 0.75-ind	ustries, Inc. on, NJ h Virgin one	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	10	234.75		
Project Total	8	184.42	0	0	15	339.65	346	8,451.54		
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	1	20	0	0			
Project Total	5	85	42	840	14	280	95	1,900			

Material Export Summary (2 of 3)									
Facility Name Location Type of Material	ation East Brunswick, NJ			oil Management bey, 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	263	5,260	267	5,340	66	1,320			

Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Jack Millman
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SITE OBSERVATION REPORT

Material Export Summary (3 of 3)								
Facility Name Location Type of Material	Kear	of North Jersey rny, NJ dous Soil/Fill						
Quantities	No. of Loads	Approx. Volume (CY)						
Today	0	0						
Project Total	216	4,320						

<u>Sampling</u>

 No samples were collected 	₽d.
---	-----

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



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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, 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 7:18am to 3:12pm. 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 μ 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 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	0.009	0.00	0.01
PM-2	0.009	0.00	0.00
PM-3	0.009	0.00	0.01
PM-4	0.010	0.00	0.01
WZ-1	0.010	0.00	0.00
WZ-2	0.009	0.00	0.00
WZ-3	0.009	0.00	0.00
WZ-4	0.010	0.00	0.01

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.012	0.00	0.02
PM-2	0.013	0.00	0.02
PM-3	0.012	0.00	0.02
PM-4	0.013	0.01	0.03
WZ-1	0.013	0.01	0.00
WZ-2	0.021	0.03	0.01
WZ-3	0.012	0.01	0.02
WZ-4	0.014	0.09	0.02

•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



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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 0.14 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 7:10am to 3:23pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 7:11am to 3:27pm.
- CAMP station WZ-3 was placed on the eastern sidewalk of Peck Slip from 7:14am to 3:32pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 7:18am to 3:34pm.

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 3:12pm and 3:34pm.

- 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

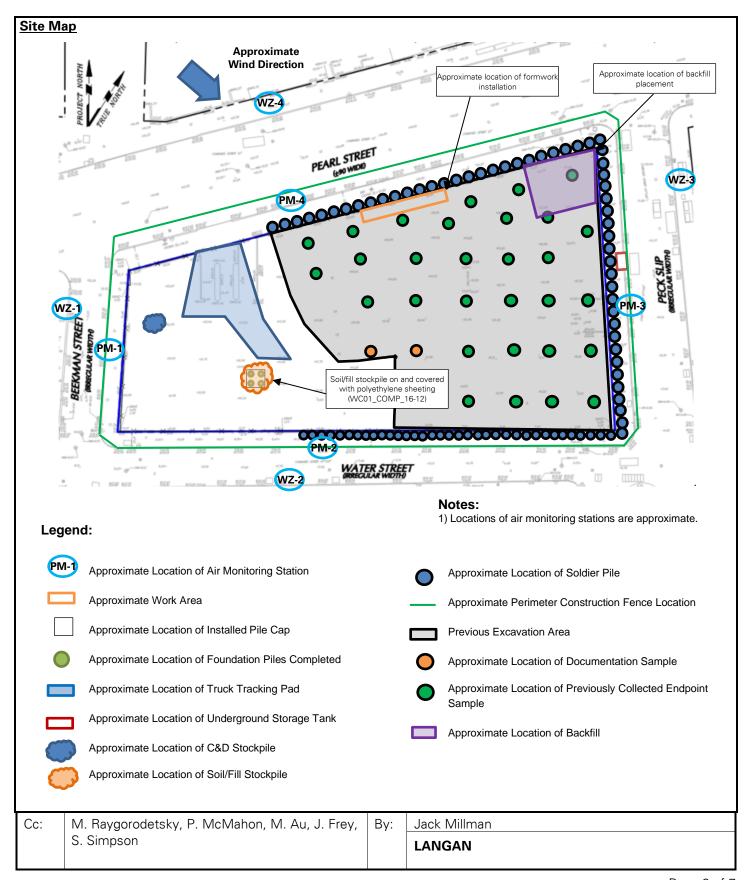
- ECD will continue exporting C&D debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the northern part of the site.
- ECD will import general fill from the IRRC facility, located in Lyndhurst, NJ to create temporary ramps for equipment access in the northeastern corner and western parts of the site.

Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Jack Millman
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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: ECD importing general fill atop polyethylene sheeting in the northeastern corner of the site (facing northwest)



Photo 2: ECD exporting C&D debris from the western part of the site for off-site disposal (facing northeast)

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

Day 167



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

DATE: Tuesday, July 25, 2023

PROJECT:

250 Water Street

Sunny, 75 – 85° F

WEATHER:

Wind: NW @ 0.2 - 2.9 mph

LOCATION:

New York, NY

TIME:

5:30am - 3:45pm

BCP SITE ID:

C231127

MONITOR

Jack Millman

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) Jack Millman, Aron Farber

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

(NYSDEC) Rafi Alam

Earth Efficient (Soil Broker) Yinette Bautista

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 placed imported general fill on polyethylene sheeting in the former foundation pile installation area to create a level grade for equipment access.
- ECD excavated an about 5-foot-long by 15-foot-wide area to a maximum depth of about 2 feet below grade surface (bgs) to facilitate installation of a concrete guide wall in the southern part of the site (along Water Street).
 - o Excavated soil/fill was temporarily stockpiled on polyethylene sheeting 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.
- ECD continued constructing wooden formwork in preparation for concrete guide wall installation in the northern part of the site (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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SITE OBSERVATION REPORT

Material Tracking

- No material was exported from the site.
- ECD imported 10 truckloads (252.44 tons) of general fill from the Impact Reuse & Recovery Center (IRRC) facility, located in Lyndhurst, NJ.

Material Import Summary									
Facility Name Location Type of Material Stone Industries, Inc. Haledon, NJ Haledon, N 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	10	252.44	
Project Total	8	184.42	0	0	15	339.65	356	8,703.98	
NYSDEC Approved:	1,800 ton		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	Location 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	14	280	95	1,900

Material Export Summary (2 of 3)									
Facility Name Location Type of Material	Location East Brunswick, NJ			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	263	5,260	267	5,340	66	1,320			

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



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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	samp	les '	were	col	lect	ed.
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Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Jack Millman
	S. Simpson		LANGAN



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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, 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 6:34am to 3:05pm. 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 μ 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 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	0.01
PM-2	0.007	0.00	0.00
PM-3	0.006	0.00	0.01
PM-4	0.007	0.00	0.01
WZ-1	0.008	0.00	0.01
WZ-2	0.007	0.00	0.00
WZ-3	0.007	0.16	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	0.011	0.02	0.02
PM-2	0.012	0.00	0.01
PM-3	0.008	0.04	0.01
PM-4	0.008	0.00	0.03
WZ-1	0.010	0.00	0.23
WZ-2	0.011	0.00	0.01
WZ-3	0.008	0.27	0.02
WZ-4	0.009	0.00	0.02

•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



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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 0.13 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 6:19am to 2:43pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:21am to 2:48pm.
- CAMP station WZ-3 was placed on the eastern sidewalk of Peck Slip from 6:24am to 2:54pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:26am to 3:00pm.

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 3:05pm and 3:13pm.

- 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

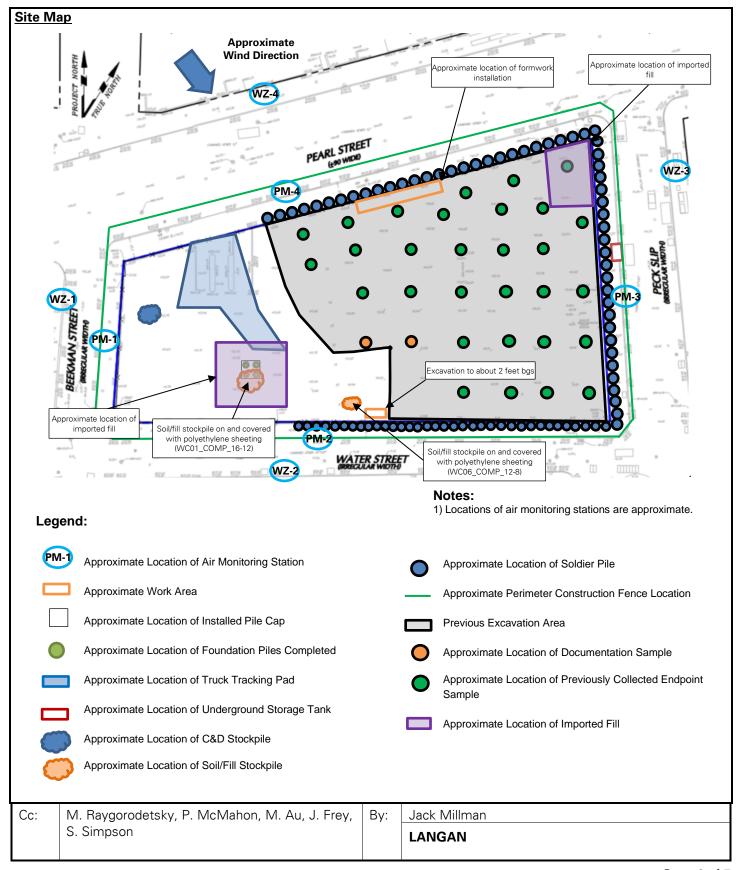
- ECD will continue exporting C&D debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the northern part of the site.
- ECD will import general fill from the IRRC facility, located in Lyndhurst, NJ to create temporary ramps for equipment access in the northeastern corner and western parts of the site.

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



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: ECD importing general fill in the western part of the site (facing northwest)

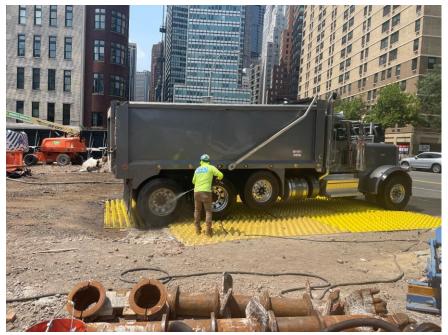


Photo 2: ECD washing a tri-axle truck prior to existing the site (facing west)

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



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

Wednesday, July 26, 2023

Sunny, 75 – 86° F

250 Water Street

DATE:

PROJECT:

WEATHER:

Wind: NW @ 0.1 - 2.4 mph

LOCATION:

New York, NY

TIME:

5:30am - 4:00pm

BCP SITE ID:

C231127

MONITOR

Jack Millman

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

Day 168 Langan (Environmental) Jack Millman, Savannah Walters Suffolk Construction (Suffolk) (General Contractor) Anthony Galu East Coast Drilling, Inc. (ECD) (Foundation Contractor) Danny Rodgers **New York State Department of Environmental Conservation** (NYSDEC) Rafi Alam

Earth Efficient (Soil Broker) Yinette Bautista

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 placed imported general fill in an about 85-foot-long by 35-foot-wide area in the northeastern part of the site (Pearl Street and Peck Slip) to create a temporary ramp for equipment access.
- ECD continued constructing wooden formwork in preparation for concrete guide wall installation in the southern part of the site (Water 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



Page 2 of 7

SITE OBSERVATION REPORT

Material Tracking

- No material was exported from the site.
- ECD imported eight truckloads (205.12 tons) of general fill from the Impact Reuse & Recovery Center (IRRC) facility, located in Lyndhurst, NJ.

	Material Import Summary							
Facility Name Location Type of Material	Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone		Genter or J Haledon, NJ Impact Materials Jersey City		Haledon, NJ 0.75-inch Virgin		Impact R Recovery Lyndhu Genera	Center, rst, NJ
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	8	205.12
Project Total	8	184.42	0	0	15	339.65	364	8,909.1
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		East Stro	icient MSM udsburg, PA Debris	Kear Hazardous L	of North Jersey ny, NJ .ead-Impacted il/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	14	280	95	1,900

	Material Export Summary (2 of 3)						
Facility Name Location Type of Material	Location East Brunswick, NJ		cation East Brunswick, NJ Keasbey, NJ		sbey, 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	0	0	0	0	0	0	
Project Total	263	5,260	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 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			

<u>Sampling</u>

•	No samp	les were	colle	ected.
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Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Jack Millman
	S. Simpson		LANGAN



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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, 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 6:56am to 3:29pm. 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 μ 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 ranged from 0.00 to 0.01 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	0.020	0.00	0.01
PM-2	0.020	0.00	0.01
PM-3	0.020	0.00	0.01
PM-4	0.020	0.01	0.02
WZ-1	0.020	0.00	0.00
WZ-2	0.019	0.00	0.00
WZ-3	0.020	0.17	0.01
WZ-4	0.023	0.01	0.01

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.027	0.00	0.03
PM-2	0.023	0.00	0.02
PM-3	0.023	0.00	0.02
PM-4	0.023	0.18	0.06
WZ-1	0.024	0.00	0.01
WZ-2	0.022	0.00	0.01
WZ-3	0.023	0.28	0.02
WZ-4	0.037	0.10	0.02

•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



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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 0.16 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 6:39am to 2:50pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:37am to 2:55pm.
- CAMP station WZ-3 was placed on the eastern sidewalk of Peck Slip from 6:32am to 3:05pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:28am to 3:02pm.

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 3:31pm and 3:42pm.

- 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

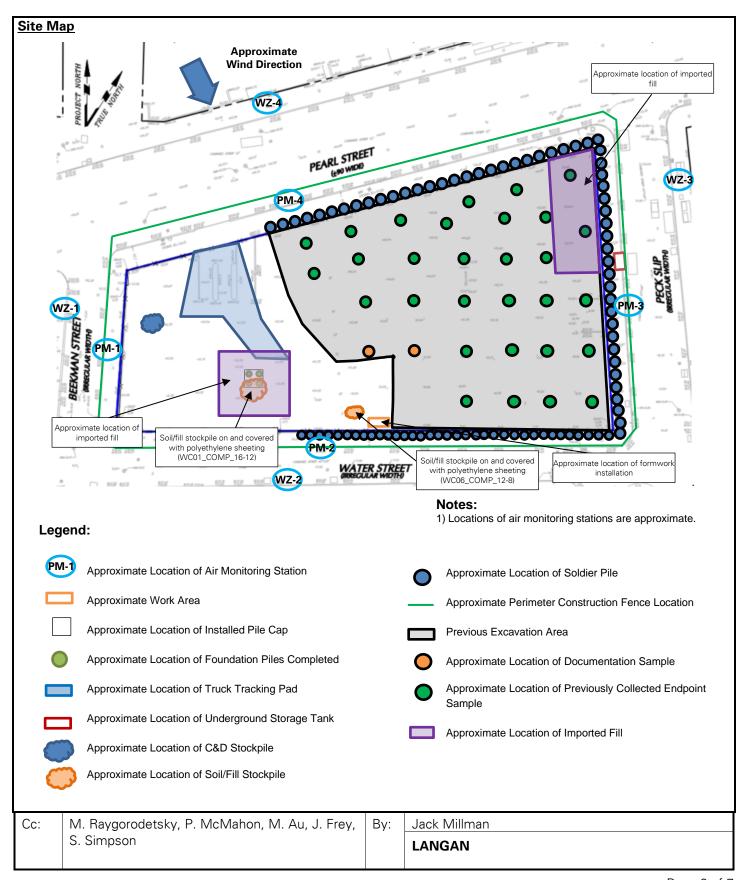
- ECD will continue exporting C&D debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the northern part of the site.
- ECD will import general fill from the IRRC facility, located in Lyndhurst, NJ to create temporary ramps for equipment access in the northeastern corner and western parts of the site.

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



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:

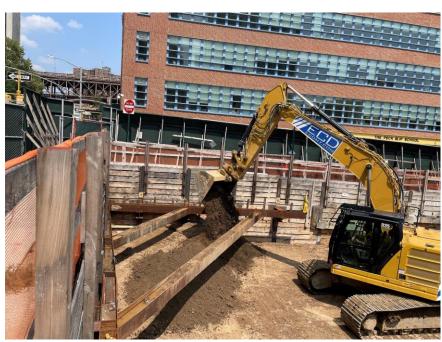


Photo 1: ECD using imported general fill to create a temporary ramp in the northeastern corner of the site (facing east)



Photo 2: Soil/fill stockpile on and covered with polyethylene sheeting in the southern part of the site (facing east)

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

Day 169



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

Thursday, July 27, 2023

PROJECT:

250 Water Street

Sunny, 75 – 91° F

WEATHER:

Wind: NW @ 0.2 - 2.8 mph

LOCATION:

New York, NY

TIME:

DATE:

5:30am - 4:15pm

BCP SITE ID:

C231127

MONITOR

Jack Millman

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) Jack Millman, Aron Farber

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

(NYSDEC) Rafi Alam

Earth Efficient (Soil Broker) Yinette Bautista

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 placed imported general fill in an about 90-foot-long by 35-foot-wide area in the northeastern part of the site (Pearl Street and Peck Slip) to create a temporary ramp for equipment access.
- ECD continued constructing wooden formwork in preparation for concrete guide wall installation in the southern part of the site (Water 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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SITE OBSERVATION REPORT

Material Tracking

- No material was exported from the site.
- ECD imported ten truckloads (248.75 tons) of general fill from the Impact Reuse & Recovery Center (IRRC) facility, located in Lyndhurst, NJ.

	Material Import Summary							
Facility Name Location Type of Material	Hal 1.5/2.5	ndustries, Inc. edon, NJ 5-inch Virgin Stone	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	10	248.75
Project Total	8	184.42	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	Brooklyn, NY		rooklyn, NY Lyndhurst, NJ C&D Debris		East Stro	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	14	280	95	1,900	

	Material Export Summary (2 of 3)						
Facility Name Location Type of Material	Location East Brunswick, NJ		ation 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	0	0	0	0	0	0	
Project Total	263	5,260	267	5,340	66	1,320	

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



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SITE OBSERVATION REPORT

ı	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 	₽d.
---	-----

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



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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, 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 7:00am to 3:21pm. 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 μ 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/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	0.015	0.00	0.01
PM-2	0.016	0.00	0.01
PM-3	0.014	0.00	0.01
PM-4	0.015	0.00	0.02
WZ-1	0.015	0.00	0.00
WZ-2	0.015	0.00	0.00
WZ-3	0.015	0.20	0.01
WZ-4	0.017	0.00	0.01

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (μg/m³)
PM-1	0.019	0.06	0.11
PM-2	0.022	0.00	0.02
PM-3	0.017	0.01	0.03
PM-4	0.019	0.00	0.16
WZ-1	0.018	0.00	0.01
WZ-2	0.018	0.00	0.01
WZ-3	0.020	0.32	0.02
WZ-4	0.025	0.04	0.02

•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 0.19 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 6:36am to 2:16pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:39am to 2:21pm.
- CAMP station WZ-3 was placed on the eastern sidewalk of Peck Slip from 6:44am to 3:50pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:47am to 3:39pm.

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 3:21pm and 3:30pm.

- 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

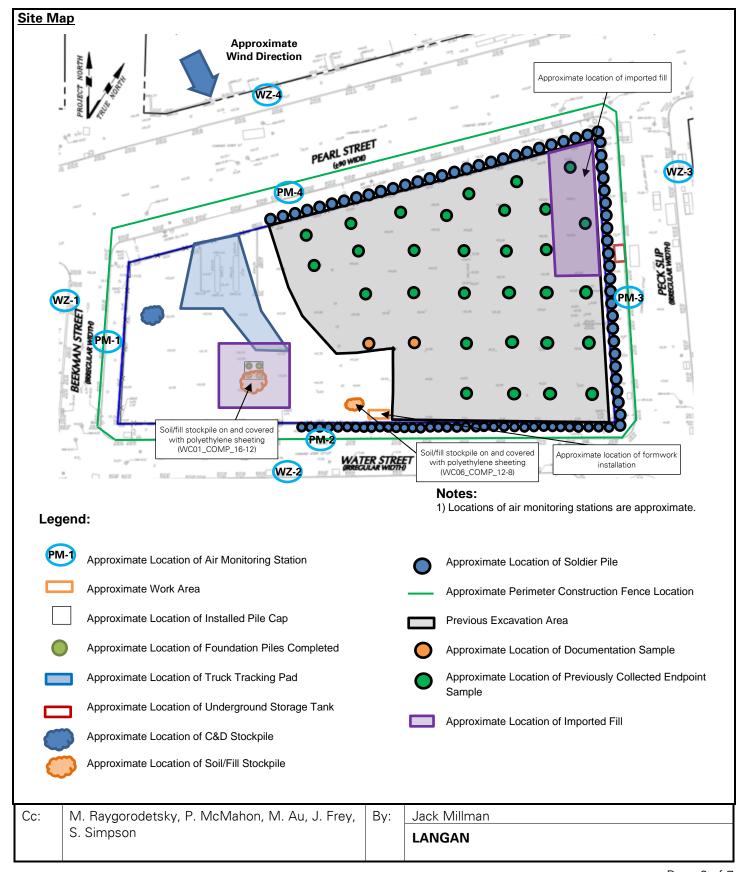
- ECD will continue exporting C&D debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the southern part of the site.

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



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: ECD using imported general fill to create a temporary ramp in the northeastern corner of the site (facing east)



Photo 2: CAMP station WZ-3 on the eastern sidewalk of Peck Slip (facing northwest)

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

Day 170



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

Friday, July 28, 2023

PROJECT:

LOCATION:

250 Water Street

New York, NY

WEATHER:

DATE:

Sunny, 75 – 91° F

PROJECT. 250 Water Street

c/o The Howard Hughes Corporation

250 Seaport District,

Wind: NW @ 0.2 – 2.1 mph

TIME: 5:30am – 4:15pm

BCP SITE ID: C231127

MONITOR Jack Millman

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:

Langan (Environmental) Jack Millman, Aron Farber

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

(NYSDEC) Rafi Alam

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 demolished existing asphalt and concrete in the southwestern part of the site. The construction and demolition (C&D) debris was temporarily stockpiled on and covered with polyethylene sheeting in the northwestern part of the site pending future off-site disposal.
- ECD graded previously imported fill in an about 35-foot-long by 5-foot-wide area facilitate installation of a concrete guide wall in the eastern part of the site (along Peck Slip).
 - Graded 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.
- ECD continued constructing wooden formwork in preparation for concrete guide wall installation in the eastern part of the site (Peck Slip). The concrete guide wall will be used to facilitate installation of support-of-excavation (SOE) along the perimeter of the site.

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	Stone Industries, Inc. Haledon, NJ 1.5/2.5-inch Virgin Stone		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	8	184.42	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	Location 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	14	280	95	1,900

Material Export Summary (2 of 3)							
Facility Name Middlesex County Landfill Location East Brunswick, NJ Type of Material 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	263	5,260	267	5,340	66	1,320	

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



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SITE OBSERVATION REPORT

Material Export Summary (3 of 3)							
Facility Name Location Type of Material	Kear	of North Jersey rny, NJ dous Soil/Fill					
Quantities	No. of Loads	Approx. Volume (CY)					
Today	0	0					
Project Total	216	4,320					

Sampling

 No samples were collected 	èd.
---	-----

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



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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, 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 6:53am to 3:01pm. 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 μ 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/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	* 0.10	0.01
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	0.008	0.00	0.00
WZ-2	0.008	0.01	0.00
WZ-3	0.007	* 0.34	0.00
WZ-4	0.008	0.01	0.01

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.011	* 5.03	0.02
PM-2	0.009	0.00	0.02
PM-3	0.010	0.00	0.02
PM-4	0.010	0.00	0.04
WZ-1	0.010	0.00	0.01
WZ-2	0.012	0.14	0.00
WZ-3	0.009	* 3.77	0.02
WZ-4	0.010	0.00	0.03

•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



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SITE OBSERVATION REPORT

Equipment Calibration

* Routine maintenance was conducted on perimeter CAMP station PM-1 between 3:39pm and 4:03pm, and on off-site CAMP station WZ-3 between 1:21pm and 1:41pm for monthly calibration of the VOC module within each station. Isobutylene gas with a concentration of 5 ppm was used to complete the calibration. No ground-intrusive activities were completed during this time and the VOC detections were the result of calibration activities that were not reflective of the work completed during this time.

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 6:36am to 3:23pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:38am to 3:29pm.
- CAMP station WZ-3 was placed on the eastern sidewalk of Peck Slip from 6:41am to 3:37pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:44am to 3:45pm.

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 3:01pm and 3:10pm.

- 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

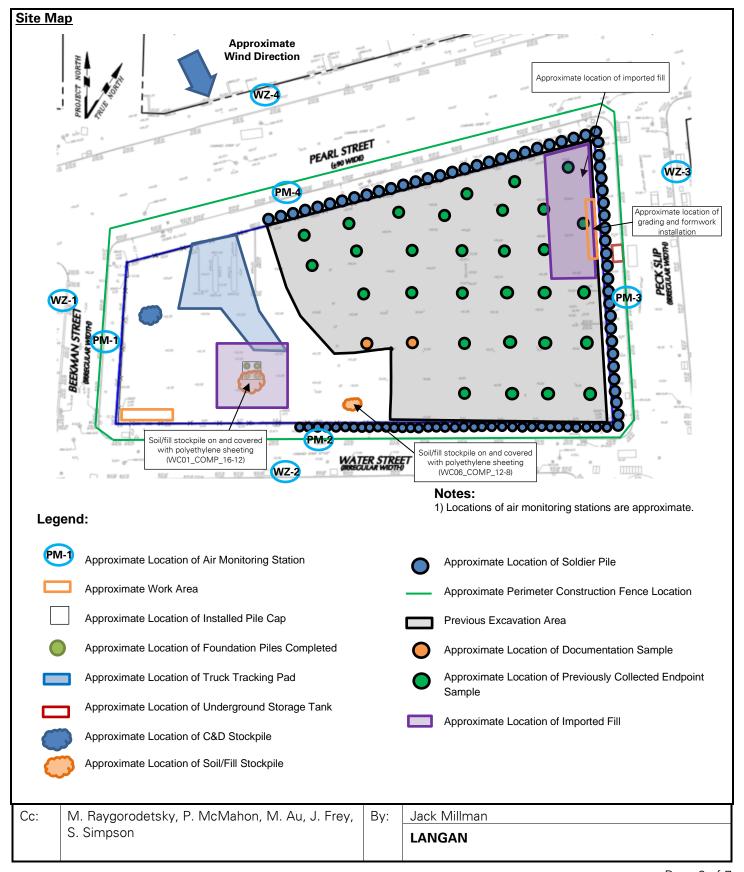
- ECD will continue exporting C&D debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the eastern part of the site.
- ECD will begin installing soil mixing columns for SOE installation along Water Street.

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



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: ECD grading imported general fill in the northeastern part of the site (facing east)



Photo 2: Dust suppression in the central part of the site (facing south)

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



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

DATE: Monday, July 31, 2023

PROJECT:

250 Water Street

Sunny, 76 – 84° F

WEATHER:

Wind: W @ 0.2 - 2.8 mph

LOCATION:

New York, NY

TIME:

5:30am - 3:45pm

BCP SITE ID:

C231127

MONITOR

Jack Millman

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

Day 171 Langan (Environmental/Geotechnical) Jack Millman, Aron Farber, Tom

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

(NYSDEC) Jared Donaldson

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 an about 5-foot-long by 30-foot-wide area to a maximum depth of about 2 feet below grade surface (bgs) to facilitate installation of support-of-excavation (SOE) in the southwestern part of the site (along Water Street).
 - 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. Evidence of impacts was not observed and the excavated soil/fill was temporarily graded into the adjacent area.
- ECD poured concrete into the previously installed wooden formwork in the eastern part of the site (Peck Slip) for concrete guide wall installation. 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



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. ledon, NJ 5-inch Virgin Stone	Haled 0.75-ind	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	8	184.42	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	Location 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	14	280	95	1,900

Material Export Summary (2 of 3)							
Facility Name Location Type of Material	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	263	5,260	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.
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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 6:53am to 3:21pm. 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 μ 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/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	0.004	0.00	0.00
PM-3	0.004	0.00	0.00
PM-4	0.004	0.00	0.01
WZ-1	0.004	0.00	0.00
WZ-2	0.004	0.00	0.00
WZ-3	0.003	0.31	0.01
WZ-4	0.004	0.00	0.01

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.005	0.00	0.04
PM-2	0.006	0.00	0.01
PM-3	0.005	0.00	0.01
PM-4	0.005	0.00	0.02
WZ-1	0.005	0.00	0.01
WZ-2	0.006	0.00	0.00
WZ-3	0.004	0.41	0.02
WZ-4	0.004	0.01	0.02

•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



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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 0.15 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 6:29am to 1:54pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:32am to 1:57pm.
- CAMP station WZ-3 was placed on the eastern sidewalk of Peck Slip from 6:39am to 2:05pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:42am to 2:16pm.

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 3:21pm and 3:30pm.

- 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

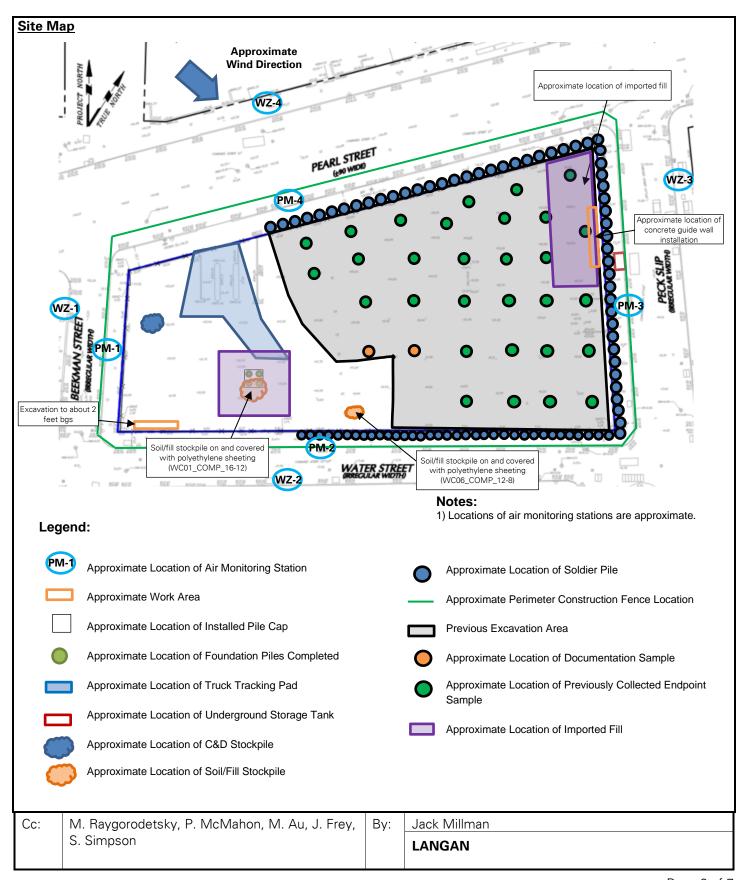
- ECD will continue exporting construction and demolition (C&D) debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the eastern part of the site.
- ECD will begin installing soil mixing columns for SOE installation along Water Street.

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



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:

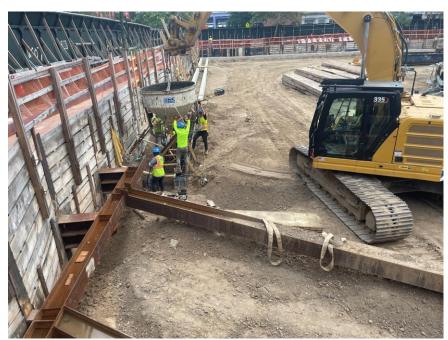


Photo 1: ECD pouring concrete into the previously installed wooden formwork in the eastern part of the site (facing south)



Photo 2: Perimeter CAMP station PM-4 in the northern part of the site (facing southeast)

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

Day 172



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

DATE: Tuesday, August 1, 2023

PROJECT:

250 Water Street

Sunny, 77 – 81° F

WEATHER:

Wind: W @ 0.2 - 3.0 mph

LOCATION:

New York, NY

TIME:

5:30am - 4:00pm

BCP SITE ID:

MONITOR

Jack Millman

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

C231127

PRESENT AT SITE:

250 Seaport District,

Hughes Corporation

c/o The Howard

Langan (Environmental/Geotechnical) Jack Millman, Gabriella

DeGennaro, Tom Keane

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

(NYSDEC) Jared Donaldson

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 an about 2-foot-long by 30-foot-wide area to a maximum depth of about 2 feet below grade surface (bgs) to facilitate installation of support-of-excavation (SOE) in the southwestern part of the site (along Water Street).
 - 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 into the adjacent area.
- ECD used an ABI Mobilram drill rig to install one soil mix column to about 35 feet bgs for SOE installation in the southwestern part of the site (Water Street). ECD's drill rig advanced steel rods with a soil mixing paddle at the bottom of the rods, 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 column.
 - o 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 continued constructing wooden formwork in preparation for concrete guide wall installation in the eastern part of the site (Peck Slip). 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



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	Haledon, NJ		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	8	184.42	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	14	280	95	1,900

Material Export Summary (2 of 3)							
Facility Name Location Type of Material	Location 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	263	5,260	267	5,340	66	1,320	

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



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SITE OBSERVATION REPORT

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				

<u>Sampling</u>

 No samples were collected 	₽d.
---	-----

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 6:59am to 2:56pm. 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 μ 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/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	0.003	0.00	0.01
PM-3	0.003	0.00	0.00
PM-4	0.003	0.02	0.01
WZ-1	0.003	0.00	0.00
WZ-2	0.003	0.00	0.00
WZ-3	0.003	* 0.47	0.00
WZ-4	0.003	0.00	0.00

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.005	0.00	0.02
PM-2	0.004	0.00	0.02
PM-3	0.006	0.00	0.02
PM-4	0.005	0.02	0.02
WZ-1	0.005	0.00	0.01
WZ-2	0.004	0.00	0.01
WZ-3	0.004	* 1.08	0.02
WZ-4	0.007	0.00	0.02

•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



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SITE OBSERVATION REPORT

Equipment Calibration

* Routine maintenance was conducted on off-site CAMP station WZ-3 between 12:43pm and 1:03pm for monthly calibration of the VOC module. Isobutylene gas with a concentration of 5 ppm was used to complete the calibration. No ground-intrusive activities were completed within 20 feet of the eastern boundary of the site (Peck Slip) during this time and the VOC detections were the result of calibration activities that were not reflective of the work completed during this time. The VOC module was not able to be calibrated and the spare CAMP station will be used in place of off-site CAMP station WZ-3 beginning tomorrow, August 2, 2023, and until the WZ-3 unit is repaired or 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 0.16 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 6:38am to 3:14pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:41am to 3:05pm.
- CAMP station WZ-3 was placed on the eastern sidewalk of Peck Slip from 6:45am to 12:43pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:51am to 3:10pm.

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 2:56pm and 3:15pm.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00 to 0.01 µg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Anticipated Activities

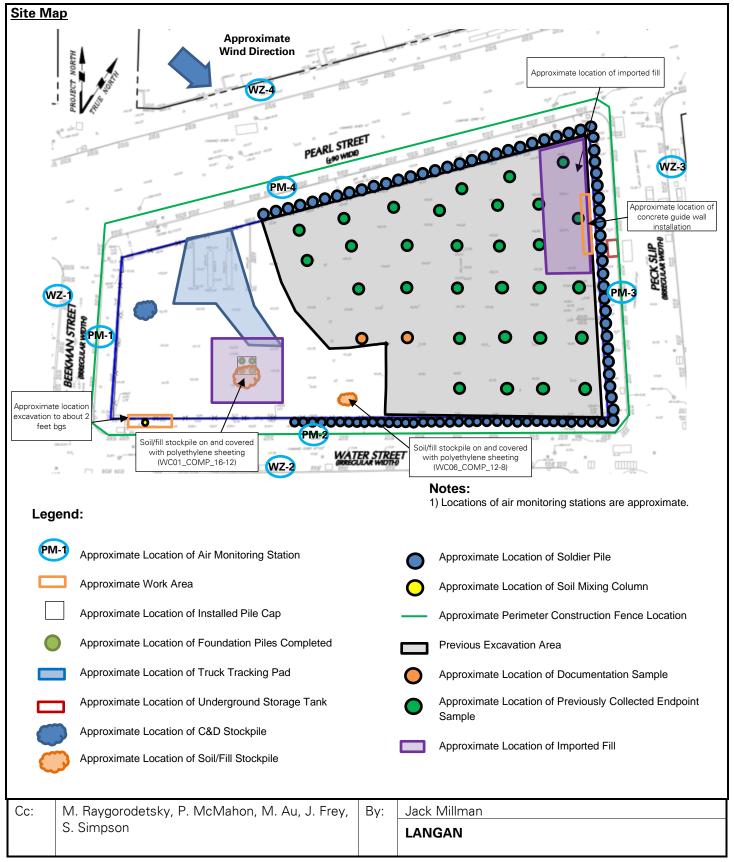
- ECD will continue exporting construction and demolition (C&D) debris and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the eastern part of the site.
- ECD will continue installing soil-mix columns for SOE installation along Water Street.

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 excavating soil/fill in the southwestern part of the site in preparation for SOE installation (facing east)



Photo 2: ECD advancing a soil mix column in the southwestern part of the site (facing west)

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

Day 173



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

Wednesday, August 2, 2023

PROJECT:

250 Water Street

....

WEATHER:

Sunny, 77 – 81° F Wind: SW @ 0.2 – 2.3 mph

LOCATION:

New York, NY

DATE:

TIME:

5:45am – 4:00pm

MONITOR

Jack Millman

EQUIPMENT:

BCP SITE ID:

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

C231127

PRESENT AT SITE:

250 Seaport District.

Hughes Corporation

c/o The Howard

Langan (Environmental/Geotechnical) Jack Millman, Aron Farber, Tom

Keane

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

(NYSDEC) Jared Donaldson

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 four soil mix columns to about 35 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 steel rods with a soil mixing paddle at the bottom of the rods, 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 continued constructing wooden formwork in preparation for concrete guide wall installation in the eastern part of the site (Peck Slip). 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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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	NJ Haledon, NJ Virgin 0.75-inch 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	8	184.42	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	Location 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	14	280	95	1,900

	Material Export Summary (2 of 3)							
Facility Name Middlesex County Landfill Location East Brunswick, NJ Type of Material 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	263	5,260	267	5,340	66	1,320		

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



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SITE OBSERVATION REPORT

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					

<u>Sampling</u>

•	No samp	les 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, 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 6:46am to 3:27pm. 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 μ 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/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	0.003	0.00	0.01
PM-2	0.003	0.00	0.01
PM-3	0.002	0.00	0.00
PM-4	0.003	0.00	0.01
WZ-1	0.003	0.00	0.00
WZ-2	0.002	0.00	0.00
WZ-3	-	-	-
WZ-4	0.003	0.00	0.01

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.009	0.01	0.02
PM-2	0.004	0.00	0.02
PM-3	0.004	0.04	0.02
PM-4	0.004	0.00	0.03
WZ-1	0.003	0.00	0.03
WZ-2	0.003	0.00	0.01
WZ-3	-	-	-
WZ-4	0.003	0.01	0.02

•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



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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 0.14 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 6:30am to 2:55pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:23am to 3:00pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:28am to 3:07pm.

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 3:27pm and 3:38pm.

- 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

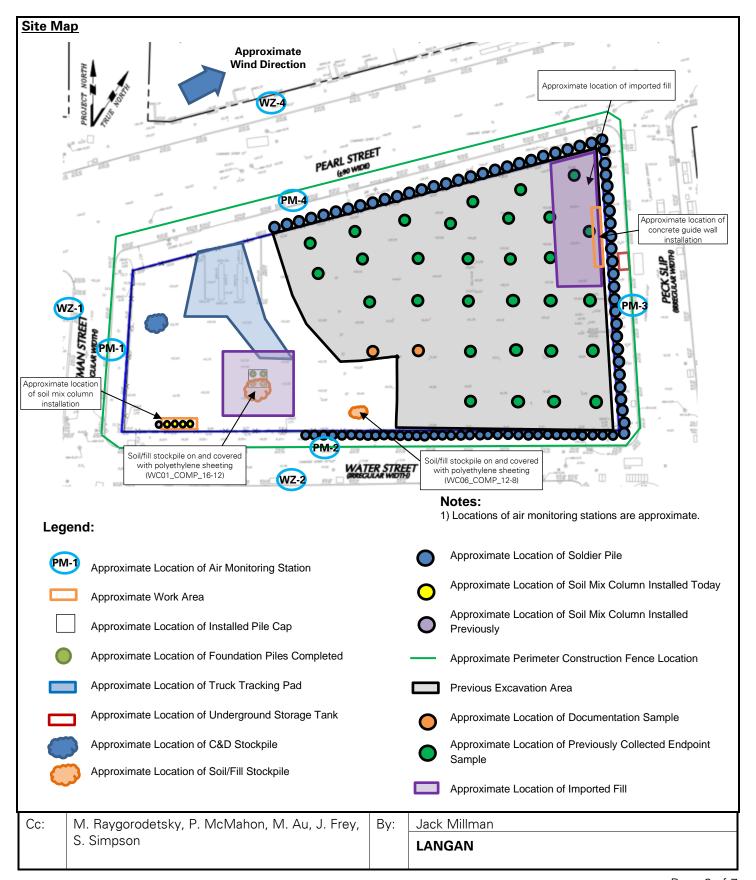
- ECD will continue exporting C&D and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the eastern part of the site.
- ECD will continue installing soil mixing columns for SOE installation along Water Street.

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



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



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



Photo 2: Dust suppression in the central part of the site (facing southeast)

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

Day 174



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

Thursday, August 3, 2023

PROJECT:

250 Water Street

Sunny, 71 – 81° F

WEATHER:

Wind: NW @ 0.3 - 2.8 mph

LOCATION:

New York, NY

TIME:

DATE:

5:45am - 5:00pm

BCP SITE ID:

C231127

MONITOR

Jack Millman

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) Jack Millman, Aron Farber, Tom

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

TRC Companies Inc. (TRC) (NYSDEC Consultant)

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 graded an about 15-foot-long by 50-foot-wide area to facilitate support of excavation (SOE) installation 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 PID and handheld Jerome® J505 mercury vapor analyzer, respectively. No evidence of impacts was observed.
- ECD used an ABI Mobilram drill rig to install four soil mix columns to about 35 feet below grade surface (bgs) for SOE installation in the southwestern part of the site (Water Street). ECD's drill rig advanced steel rods with a soil mixing paddle at the bottom of the rods, 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.
 - o 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.
- TRC continued implementation of the off-site investigation administered by the NYSDEC.

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	tion Haledon, NJ 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	8	184.42	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	Location 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	14	280	95	1,900	

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

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



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SITE OBSERVATION REPORT

Material Export Summary (3 of 3)								
Facility Name Location Type of Material	Kear	of North Jersey rny, NJ dous Soil/Fill						
Quantities	No. of Loads	Approx. Volume (CY)						
Today	0	0						
Project Total	216	4,320						

<u>Sampling</u>

•	No samp	les 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 6:45am to 3:40pm. 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 μ 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/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	0.003	0.00	0.00
PM-3	0.003	0.00	0.00
PM-4	0.003	0.00	0.01
WZ-1	0.003	0.00	0.00
WZ-2	0.003	0.00	0.00
WZ-3	0.002	0.00	0.01
WZ-4	0.003	0.00	0.01

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.010	0.00	0.02
PM-2	0.005	0.06	0.02
PM-3	0.003	0.00	0.00
PM-4	0.006	0.00	0.03
WZ-1	0.006	0.00	0.00
WZ-2	0.009	0.01	0.01
WZ-3	0.003	0.00	0.02
WZ-4	0.004	0.00	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



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SITE OBSERVATION REPORT

Equipment Troubleshooting

PM10, VOC, and mercury vapor concentrations were not recorded at perimeter CAMP stations PM-2 and PM-3 from 10:32am to 10:42am and from 11:40am to 11:50am, respectively, due to depleted batteries requiring replacement. Data logging for perimeter CAMP stations PM-2 and PM-3 resumed at 10:43am and 11:51am, respectively, after replacement of the batteries. Off-site CAMP stations WZ-2 and WZ-3, located on the Water Street and Peck Slip sidewalks, respectively, did not detect PM10, VOCs, or mercury vapor above daily background concentrations during these periods.

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 $0.00~\mu g/m^3$ to $0.15~\mu g/m^3$.
- 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 6:19am to 3:54pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:22am to 4:00pm.
- CAMP station WZ-3 was placed on the eastern sidewalk of Peck Slip from 6:27am to 4:17pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:32am to 4:28pm.

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 3:40pm and 3:49pm.

- 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

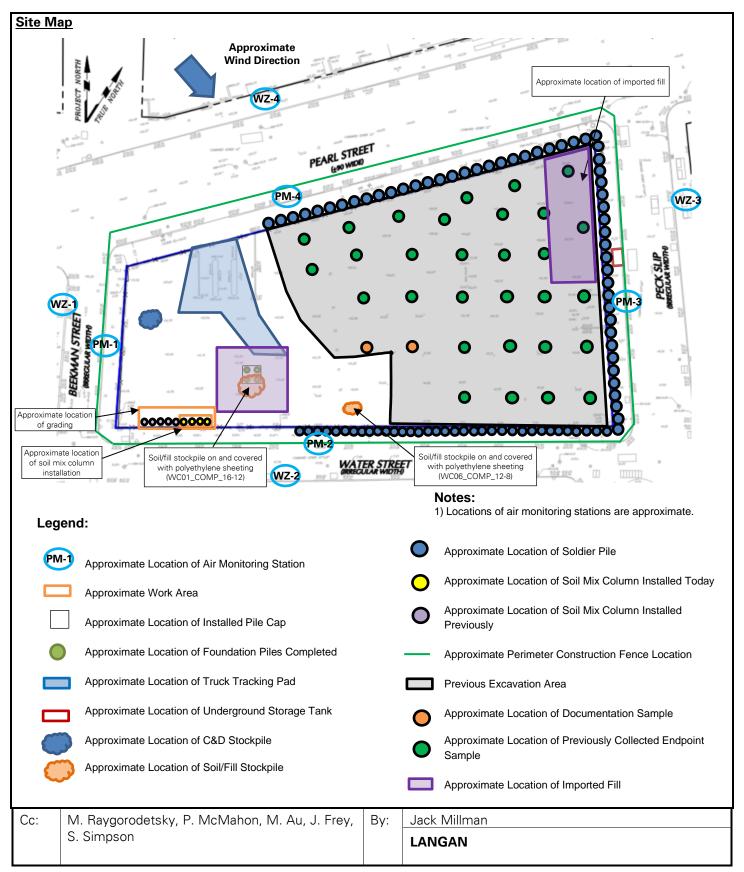
- ECD will continue exporting C&D and soil/fill from the western part of the site for off-site disposal.
- ECD will continue constructing wooden formwork in preparation for concrete guide wall installation in the eastern part of the site.
- ECD will continue installing soil mixing columns for SOE installation along Water Street.

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



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SITE OBSERVATION REPORT





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SITE OBSERVATION REPORT

Select Site Photographs:



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



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

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

Day 175



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

DATE: Friday, August 4, 2023

PROJECT:

250 Water Street

WEATHER:

Partly Sunny, 74 – 82° F

c/o The Howard

250 Seaport District,

Hughes Corporation

Wind: W @ 0.3 - 2.3 mph

LOCATION:

New York, NY

TIME:

5:45am - 4:45pm

BCP SITE ID: C231127

MONITOR

Jack Millman

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:

Langan (Environmental/Geotechnical) Jack Millman, Aron Farber, Tom

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

(NYSDEC) Jared Donaldson

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 three soil mix columns to about 35 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 steel rods with a soil mixing paddle at the bottom of the rods, 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.
 - o 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 excavated an about 10-foot-long by 10-foot-wide area to a maximum depth of about 8 feet bgs to identify to identify potential subsurface utilities and/or obstructions prior to SOE installation in the southwestern part of the site (along Water Street).
 - o 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. The excavated soil/fill was temporarily backfilled into the original location following removal of concrete obstructions.

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



Langan PN: 170381202 Friday, August 4, 2023

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	cation Haledon, NJ		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	8	184.42	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	Location 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	14	280	95	1,900			

Material Export Summary (2 of 3)								
Facility Name Location Type of Material	on 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	263	5,260	267	5,340	66	1,320		

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



Langan PN: 170381202 Friday, August 4, 2023

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SITE OBSERVATION REPORT

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				

<u>Sampling</u>

•	No	samp	les v	were	col	lect	ed	
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Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Jack Millman
	S. Simpson		LANGAN



Langan PN: 170381202 Friday, August 4, 2023

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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, 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 7:09am to 3:42pm. 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 μ 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/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	0.021	0.00	0.01
PM-2	0.017	* 0.09	0.01
PM-3	0.016	0.00	0.00
PM-4	0.017	0.00	0.01
WZ-1	0.017	0.00	0.01
WZ-2	0.017	0.00	0.00
WZ-3	0.017	0.00	0.00
WZ-4	0.018	0.00	0.01

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.080	0.01	0.02
PM-2	0.022	* 5.04	0.02
PM-3	0.021	0.00	0.01
PM-4	0.023	0.00	0.06
WZ-1	0.020	0.00	0.03
WZ-2	0.026	0.01	0.01
WZ-3	0.021	0.00	0.00
WZ-4	0.032	0.00	0.02

•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



Langan PN: 170381202 Friday, August 4, 2023

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SITE OBSERVATION REPORT

Equipment Calibration

* Routine maintenance was conducted for perimeter CAMP station PM-2 for monthly calibration of the VOC module within the station using 5 ppm isobutylene gas. No ground-intrusive activities were completed during this time and the VOC detections were the result of calibration activities that were not reflective of the work completed during this time.

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 6:38am to 4:05pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:40am to 4:01pm.
- CAMP station WZ-3 was placed on the eastern sidewalk of Peck Slip from 6:43am to 2:13pm.
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:48am to 2:24pm.

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 3:42pm and 3:54pm.

- 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 mixing columns for SOE installation along Water Street.

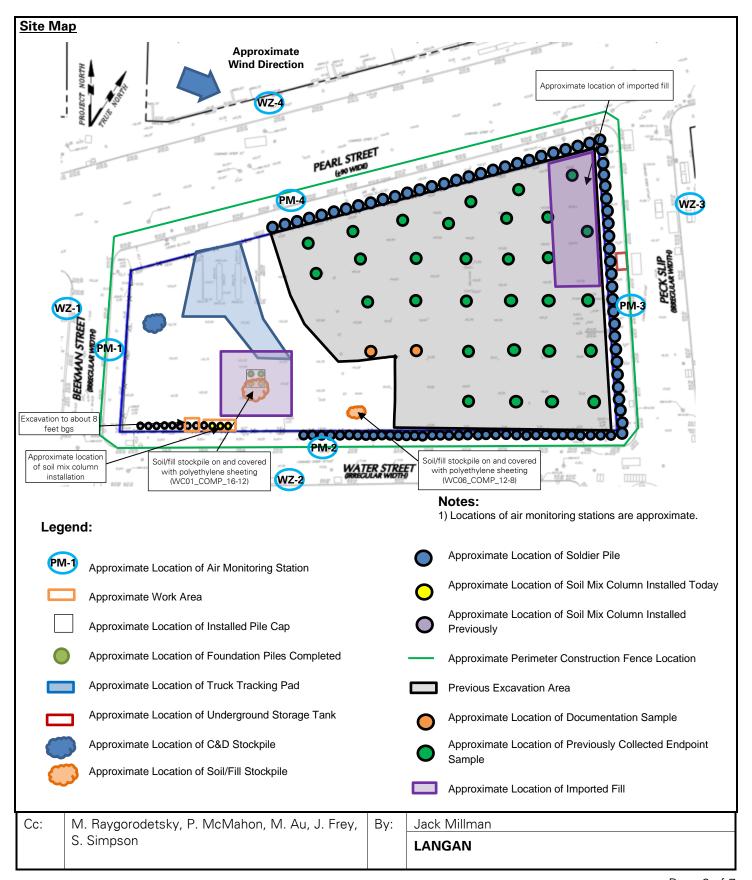
Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Jack Millman
	S. Simpson		LANGAN



Langan PN: 170381202 Friday, August 4, 2023

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SITE OBSERVATION REPORT





Langan PN: 170381202 Friday, August 4, 2023

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SITE OBSERVATION REPORT

Select Site Photographs:



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



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

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



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

Monday, August 7, 2023

PROJECT:

250 Water Street

WEATHER:

Rain/Overcast, 74 - 82° F

DATE:

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

Day 176 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.
 - o 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).
 - 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.

Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Gabriella DeGennaro
	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	Location 1 5/2 5-inch Virgin 0 75-inch 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	8	184.42	0	0	15	339.65	374	9,157.85
NYSDEC Approved:	1,800 tons*		720 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	14	280	95	1,900	

Material Export Summary (2 of 3)								
Facility Name Location Type of Material	ocation 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	263	5,260	267	5,340	66	1,320		

Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Gabriella DeGennaro
	S. Simpson		LANGAN



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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.
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Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Gabriella DeGennaro
	S. Simpson		LANGAN



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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 μ 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/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	0.013	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

Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Gabriella DeGennaro
	S. Simpson		LANGAN



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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

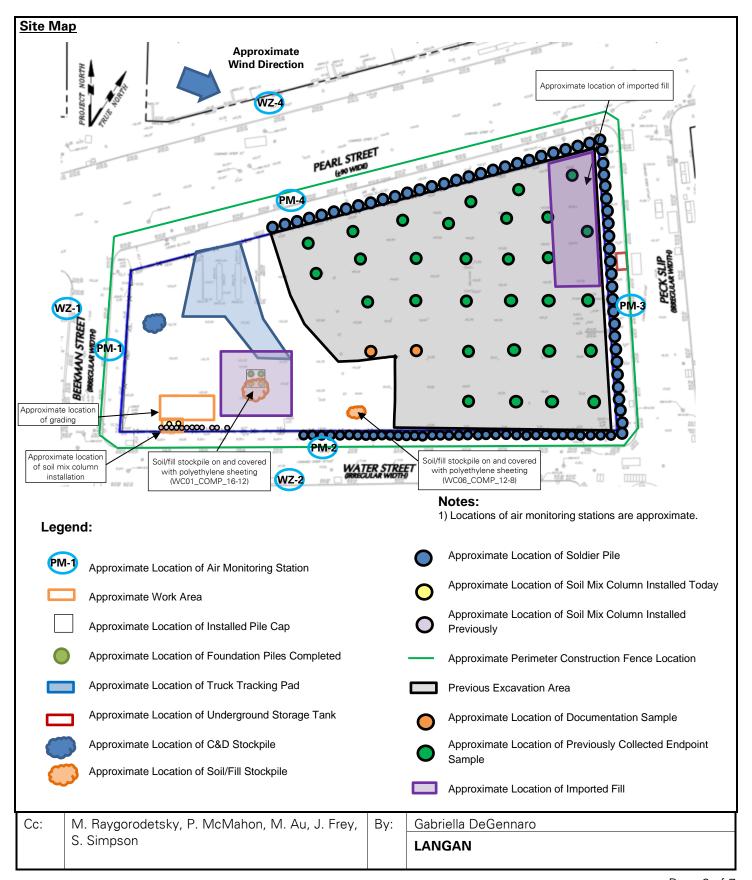
- ECD will continue exporting C&D and soil/fill from the western part of the site for off-site disposal.
- ECD will continue installing soil mix columns for SOE installation along Water Street.

Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Gabriella DeGennaro
	S. Simpson		LANGAN



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SITE OBSERVATION REPORT





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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

LANGAN

Day 177



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

LLC

DATE: Tuesday, August 8, 2023

PROJECT:

250 Water Street

Partly Sunny, 70 - 78° F

WEATHER:

Wind: SW @ 0.2 - 1.5 mph

LOCATION:

New York, NY

TIME:

5:45am - 4:45pm

BCP SITE ID:

C231127

MONITOR

Jack Millman

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) Jack Millman, Aron Farber, Tom

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 four soil mix columns to about 35 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.
 - o 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 50-foot-long by 50-foot-wide area to create a level surface for equipment staging in the central part of the site.
 - 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.

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



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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 Location Type of Material	ocation Haledon, NJ		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	8	184.42	0	0	15	339.65	374	9,157.85	
NYSDEC Approved:	1,800 tons*			720 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	14	280	95	1,900	

Material Export Summary (2 of 3)								
Facility Name Location Type of Material	ntion 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	263	5,260	267	5,340	66	1,320		

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



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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	samp	les '	were	col	lect	ed.
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Cc:	M. Raygorodetsky, P. McMahon, M. Au, J. Frey,	Ву:	Jack Millman
	S. Simpson		LANGAN



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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, 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 6:59am to 3:54pm. 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 μ 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/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	0.004	0.00	0.01
PM-3	0.003	* 0.08	0.01
PM-4	0.004	0.00	0.02
WZ-1	0.005	0.00	0.00
WZ-2	0.004	0.00	0.00
WZ-3	0.004	0.00	0.00
WZ-4	0.004	0.00	0.01

Maximum 15-Minute-Average Concentrations

Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)
PM-1	0.008	0.00	0.09
PM-2	0.006	0.00	0.02
PM-3	0.007	* 3.34	0.04
PM-4	0.007	0.00	0.07
WZ-1	0.008	0.00	0.01
WZ-2	0.007	0.00	0.00
WZ-3	0.007	0.01	0.01
WZ-4	0.008	0.03	0.03

•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



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SITE OBSERVATION REPORT

Equipment Calibration

* Routine maintenance was conducted on perimeter CAMP station PM-3 between 4:06pm and 4:27pm for monthly calibration of the VOC module. Isobutylene gas with a concentration of 5 ppm was used to complete the calibration. No ground-intrusive activities were completed during this time and the VOC detections were the result of calibration activities that were not reflective of the work completed during this time.

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 6:33am to 3:43pm.
- CAMP station WZ-2 was placed on the southern sidewalk of Water Street from 6:35am to 4:08pm.
- CAMP station WZ-3 was placed on the eastern sidewalk of Peck Slip from 6:40am to 3:29pm
- CAMP station WZ-4 was placed on the northern sidewalk of Pearl Street from 6:43am to 3:38pm.

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 3:54pm and 3:59pm.

- 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

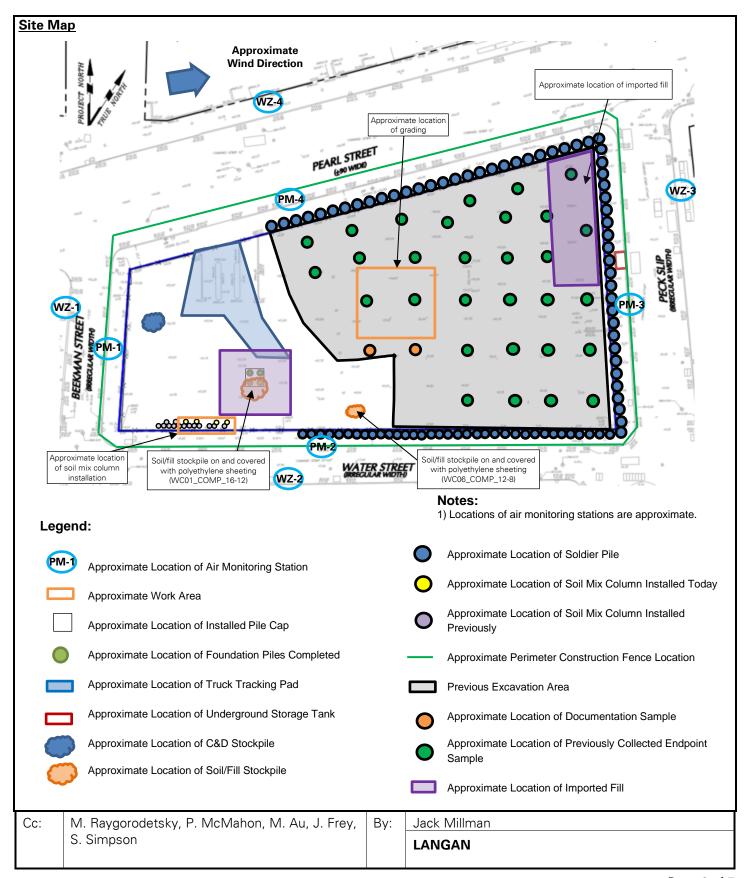
- ECD will continue exporting C&D and soil/fill from the western part of the site for off-site disposal.
- ECD will continue installing soil mixing columns for SOE installation along Water Street.

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



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SITE OBSERVATION REPORT





Page 7 of 7

SITE OBSERVATION REPORT

Select Site Photographs:



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



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

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

By: Jack Millman

LANGAN