Day 133



SITE OBSERVATION REPORT

PROJECT No.: 170381202

CLIENT:

Corporation

DATE:

Tuesday, October 18, 2022

PROJECT:

250 Water Street

New York, NY

C231127

WEATHER:

Clear, 50.0 – 59.1 °F

Wind: WNW @ 0.3 - 6.6 mph

TIME:

6:00 AM - 5:00 PM

MONITOR: Brian Kenneally

EQUIPMENT:

BCP SITE ID:

LOCATION:

MiniRAE 3000 PID

DustTrak II Jerome J405® Jerome J505® Hand tools **CAT 374F** Komatsu 969

Komatsu 228 Takeuchi TB290 PRESENT AT SITE:

250 Seaport District, LLC c/o The Howard Hughes

Langan (Environmental/Geotechnical) – Brian Kenneally

Civetta Cousins JV, LLC (CCJV) (Foundation Contractor) - George Washburn

Lendlease (General Contractor) – Marty Cohen

New York State Department of Environmental Conservation (NYSDEC) -

Rafi Alam

JCB 110W Hydradia Wacker Neuson RTSC3

Wacker Neuson OPU6555

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

- CCJV excavated an about 20-foot-long by 12-foot-wide area to a maximum depth of about 14 feet below grade surface (bgs) for removal and off-site disposal of hazardous lead-impacted soil/fill in the south-central part of site. Excavated soil/fill was live-loaded into tri-axle dump trucks for off-site disposal at the Clean Earth of North Jersey (CENJ) facility, located in Kearney, NJ. The trucks were covered with tight-fitting covers and were inspected and washed before leaving the site.
 - 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 odors, staining, or instrumental evidence of contamination was recorded.
- CCJV used imported general fill to backfill an about 120-foot-long by 12-foot-wide area and two about 30-footlong by 30-foot-wide areas in the south-central and north-central parts of the site, respectively.
- CCJV installed a temporary cover, consisting of an about 1-foot-thick layer of imported general fill underlain by geotextile filter fabric, in an about 60-foot-long by 30-foot-wide area along the berm of the excavation area in the northwestern part of the site.
- CCJV relocated previously removed steel sheet piles for staging in the western part of the site to facilitate offsite transport at a later date.
- CCJV covered exposed soil/fill that has not been confirmed to meet Track 2 remediation criteria and construction and demolition (C&D) debris with Atmos® AC-645 dust/vapor suppressing foam to create a temporary overnight cover.

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Page 2 of 7

SITE OBSERVATION REPORT

Material Tracking

- CCJV exported six truckloads (about 120 cubic yards [CY]) of hazardous lead-impacted soil/fill for off-site disposal at the CENJ, located in Kearny, NJ.
- CCJV imported 28 truckloads (682.63 tons) of general fill from the IRRC facility, located in Lyndhurst, NJ.

	Material Import Summary								
Facility Name Location Type of Material	ion Haledon, NJ		Haled 0.75-ind	ne Industries, Inc. Haledon, NJ 75-inch Virgin Stone Lyndr		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	28	682.63	
Project Total	8	184.42	0	0	13	289.08	271	6,637.65	
NYSDEC Approved:	1,800		tons*		720 tons*		7,500 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 5,000 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	6	120	0	0	
Project Total	5	85	40	800	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

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Page 3 of 7

SITE OBSERVATION REPORT

Sampli	ng Activities		
•	quality assurance/quality control (QA/QC) sam compound list (TCL) volatile organic compo polychlorinated biphenyls (PCBs), pesticides,	nples f unds (herbi	es (EP37_EL3.0 and EP38_EL3.0) and associated or laboratory analysis of NYSDEC Part 375/target VOCs), semivolatile organic compounds (SVOCs), sides, target analyte list (TAL) metals (including and polyfluoroalkyl substances (PFAS), and/or 1,4-
•	Samples were relinquished to Alpha Analytical, Ir certified laboratory under standard chain-of-custo		Environmental Laboratory Accredited Program (ELAP)-tocols.
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Page 4 of 7

SITE OBSERVATION REPORT

CAMP Activities

Langan performed air monitoring at the perimeter of the site and at work zones at nine 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 each day, 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 μg/m³ to 0.25 μg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Perimeter and Work Zone Concentrations

Daily Average Concentrations

Daily Average Concentrations							
Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)				
PM-1	0.008	0.0	0.01				
PM-2	0.018	0.0	0.01				
PM-3	0.009	0.0	0.00				
PM-4	0.004	0.0	0.00				
PM-5	0.002	0.0	0.01				
PM-6	0.011	0.0	0.01				
WZ-1	0.011	0.0	0.01				
WZ-2	0.008	0.0	0.01				
WZ-3	0.007	0.0	0.01				

Maximum 15-Minute-Average Concentrations

Waxiiiaiii 13-Wiiiate-Average Concentrations							
Station ID	Particulate (mg/m³)	Organic Vapor (ppm)	Mercury Vapor (µg/m³)				
Action Level	0.100 mg/m ³	5.0 ppm	1.00 μg/m³				
PM-1	0.025	0.0	0.03				
PM-2	0.039	0.0	0.02				
PM-3	0.035	0.0	0.01				
PM-4	0.011	0.0	0.02				
PM-5	0.005	0.0	0.03				
PM-6	0.025	0.0	0.02				
WZ-1	0.024	0.0	0.03				
WZ-2	0.011	0.0	0.03				
WZ-3	0.021	0.0	0.03				

/ 3 .11.			, 3 .	1
•ma/m³ – milli	idrams her clihic met	er •ppm = parts per million	■IId/m² – micrograme	s ner clinic meter
•1119/111 — 1111111	granis per cable inct		Ψμg/III — IIIIGIOGIAIII	per cable meter

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Page 5 of 7

SITE OBSERVATION REPORT

Equipment Troubleshooting

• PM10 concentrations were not recorded at off-site CAMP station WZ-1 between 1:47pm and 2:04pm (18 minutes) to due to a depleted battery causing the DustTrak unit to shut down. Data logging resumed at 2:05pm following replacement of the battery. Fugitive dust was not observed migrating from the 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 0.25 µg/m³.
- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were at or below background concentrations throughout the work day.

CAMP Station Relocation

- CAMP station WZ-1 was relocated to the northern sidewalk of Pearl Street from 6:51am to 4:09pm during backfilling activities in the north-central part of the site.
- CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 6:45am to 4:09pm due to exposed soil/fill located within 20 feet of the eastern site boundary.
- CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 6:45am to 4:09pm during backfilling activities in the south-central part of the site.

Prior to CAMP Shutdown

Prior to discontinuing CAMP, air quality at each CAMP station was verified using the handheld PID and handheld Jerome® J505 mercury vapor analyzer and no readings above background concentrations were recorded. Additionally, areas of exposed soil/fill were covered with polyethylene sheeting and/or Atmos® AC-645 dust/vapor suppressing foam. CAMP stations were discontinued at 4:08pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 μg/m³ to 0.02 μg/m³.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.

Anticipated Activities

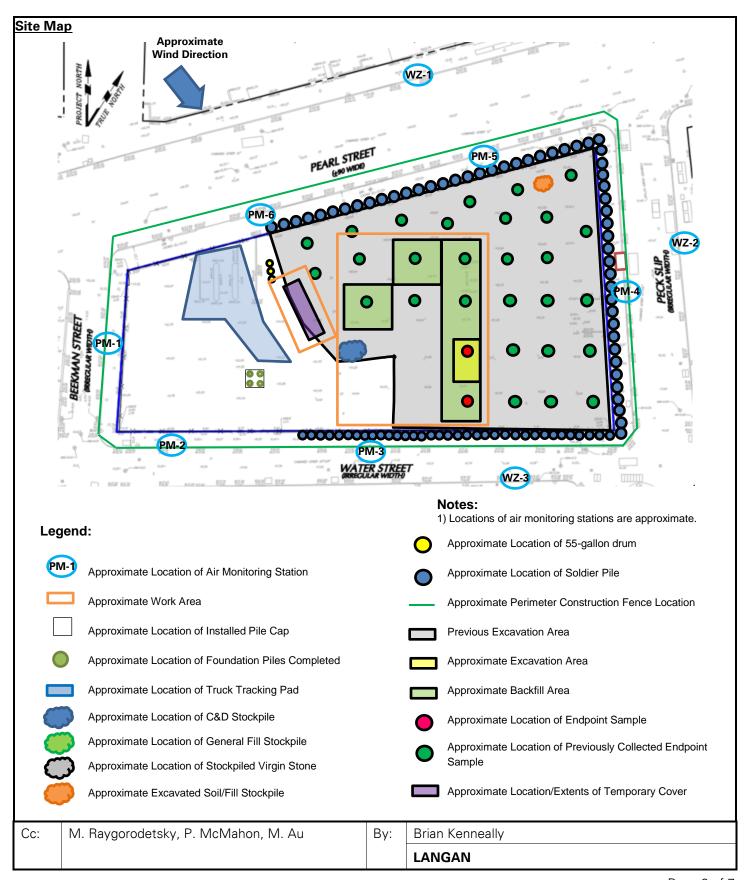
- CCJV will continue excavation and off-site disposal of soil/fill in the central and southern parts of the site.
- CCJV will backfill over-excavated areas of the site using imported general fill to match the surrounding grade.
- Langan will continue collection of confirmation endpoint soil samples across the site.

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Page 6 of 7

SITE OBSERVATION REPORT





Langan PN: 170381202 Tuesday, October 18, 2022 Page 7 of 7

SITE OBSERVATION REPORT

Select Site Photographs:



Photo 1: CCJV installing a temporary cover, consisting of imported general fill underlain by geotextile filter fabric, in the northwestern part of the site (facing south)



Photo 2: CCJV applying Atmos® AC-645 dust/vapor suppressing foam to exposed soil/fill for the temporary overnight cover (facing southwest)

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