SITE OBSERVATION REPORT

PROJECT No.: 170552901		**DATE:**	Monday, November 7, 2022
PROJECT: 159 Boerum Street	**CLIENT:** SPG Boerum LLC	**WEATHER:**	Sunny, 67-77 °F Wind: WNW @ 2.3 -6.1 mph
LOCATION: Brooklyn, NY		**TIME:**	6:30 am to 5:30 pm
CONTRACTOR: SD Builders		**LANGAN REP. :**	Lauren Roper and Andrew Ashley

CONTRACTOR'S EQUIPMENT:
Hitachi ZX 160LC Excavator
Deere 300G Excavator
Casagrande C9 Drill Rig
Geoprobe 6620 Drill Rig

PRESENT AT SITE:
Lauren Roper and Andrew Ashley – Langan
James Hsu – SD Builders - General Contractor
Rise Concrete (Rise) – Foundation Contractor
Able Siquij – Anel Queens Construction Inc. (Anel) – Drilling Contractor
Tim Kelly – Lakewood Environmental Services Corp. (Lakewood) - Driller

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was present to observe environmental protocols in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved Remedial Action Work Plan (RAWP) for Brownfield Cleanup Program (BCP) site C224291 at 159 Boerum Street (Block 3071, Lot 40). Observed activities were as follows:

Site Activities

- Anel used a Casagrande drill rig to install soldier piles along the southeastern site boundary to a maximum depth of 30 feet below grade surface (bgs).
- Lakewood used a Geoprobe 6620DT drill rig to advance five soil borings (SB-106, SB-107, SB-108, SB-109, and SB-110) to a depth of 20 feet bgs in the eastern part of the site for waste characterization purposes. Fill/soil was screened for odors, staining, and organic vapors using a photoionization (PID); evidence of impacts were not observed.

Material Tracking

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

Sampling

The following samples were relinquished to Alpha Analytical Laboratories (Alpha), a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP No. 11148) certified laboratory in Westborough, Massachusetts:

- Two composite samples (WC05_COMP_0-6 and WC05_COMP_6-20) comprised from five soil borings (SB-106 through SB-110) were collected and analyzed for Target Compound List (TCL) semivolatile organic compounds (SVOC), pesticides, herbicides, polychlorinated biphenyls (PCB), Target Analyte List (TAL) metals including total chromium and cyanide.

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- Four grab samples, WC05_GRAB_1-2, WC05_GRAB_11-12, WC05_GRAB_2-3, and WC05_GRAB_17-18 were collected and analyzed for TCL volatile organic compounds (VOC) and/or extractable petroleum hydrocarbon (EPH).
- One field blank (FB01_110722) and one trip blank (TB01_110822) were collected for quality assurance/quality control (QA/QC) purposes.

CAMP Activities:

Langan performed on-site air monitoring during ground-intrusive activities for particulate matter smaller than 10 microns in diameter (PM10) or volatile organic compounds (VOCs). One-minute VOC and particulate concentrations were not recorded between 10:33am and 11:44am at the downwind station due to server errors. A field technician was contacted and recordings resumed. Fifteen-minute average concentrations of VOCs or PM10 did not exceed action levels. Fugitive dust and odors were not observed leaving the site.

Particulate Monitoring (mg/m^3)			**Organic Vapor Monitoring (ppm)**		
Daily background	0.008		Daily Background	0.1	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	0.008	0.013	Daily Time Weighted Average	0.1	0.0
Maximum 15-min Average	0.017	0.034	Maximum 15-min Average	0.06	0.0
Minimum 1-min Instant Reading	0.000	0.000	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	0.024	0.212	Maximum 1-min Instant Reading	0.6	0.0

mg/m^3 = milligrams per cubic meter ppm = parts per million
NA = Not Available

Anticipated Activities

- Anel will continue to install soldier piles along the southern and southeastern site perimeter.
- Langan will continue to advance soil borings and collect soil samples for waste characterization purposes.

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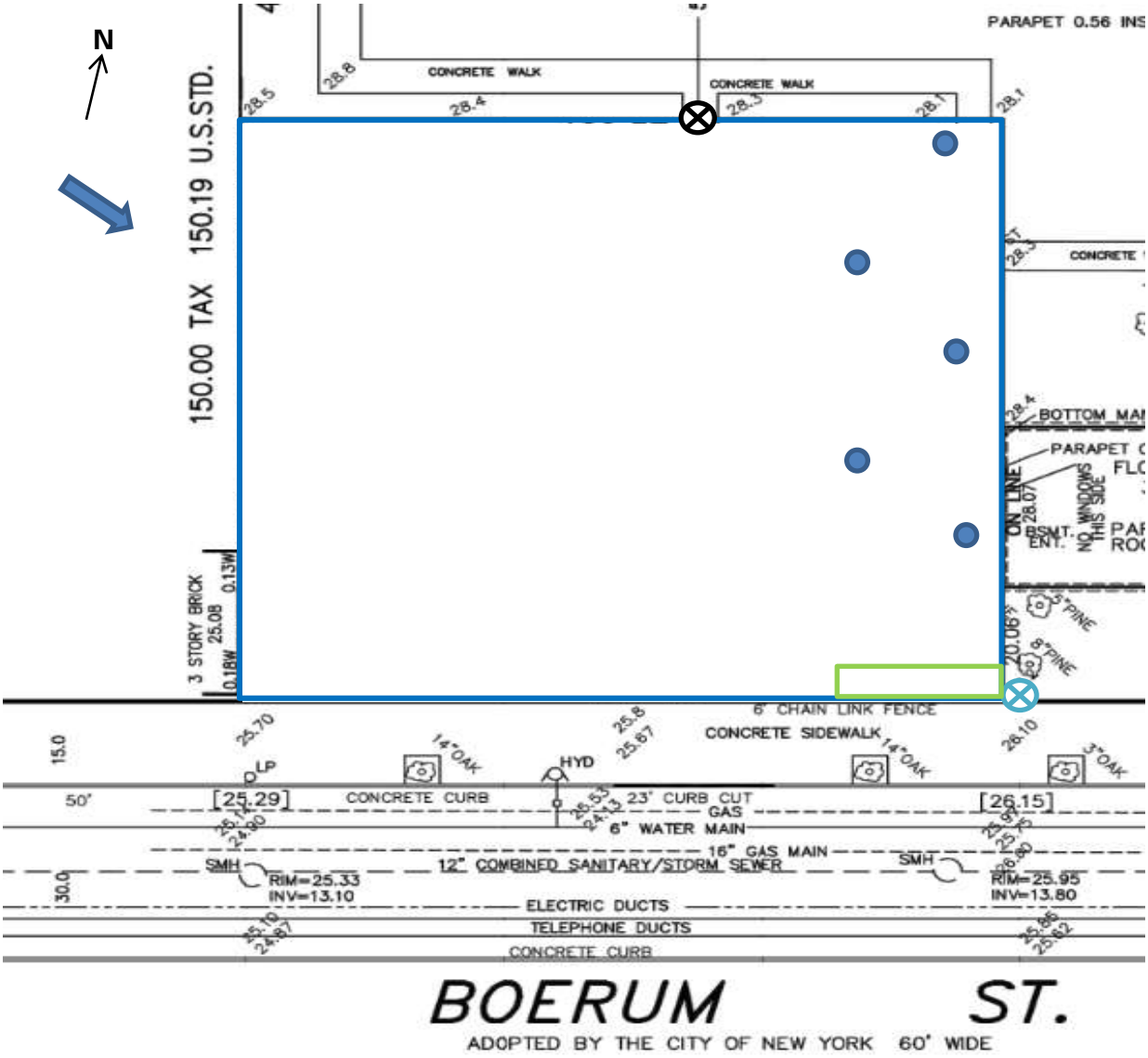
Figure 1: Site Map



Legend:

- Upwind CAMP Station
- Downwind CAMP Station
- Excavation Extent
- Stockpile Location
- C&D Stockpile Location
- Graded Extent
- Wind Direction
- Fence/Tree Removal Extents
- Support of Excavation Drilling Extents
- Approximate Location of Completed Soil Boring

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SITE PHOTOGRAPHS

Photo 1: View of Lakewood advancing a soil boring in the southeastern part of the site (facing southwest).

Photo 2: View of Anel installing soldier piles in the southeastern part of the site (facing southeast).

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