

SITE OBSERVATION REPORT

PROJECT No.: 170552901		DATE:	Tuesday, November 8, 2022
PROJECT: 159 Boerum Street	CLIENT: SPG Boerum LLC	WEATHER:	Sunny, 47-58 °F Wind: N @ 2.5 -6.6 mph
LOCATION: Brooklyn, NY		TIME:	6:30 am to 5:30 pm
CONTRACTOR: SD Builders		LANGAN REP. :	Lauren Roper, Andrew Ashley
CONTRACTOR'S EQUIPMENT: Hitachi ZX 160LC Excavator Deere 300G Excavator Casagrande C9 Drill Rig Geoprobe 6620DT Drill Rig	PRESENT AT SITE: Lauren Roper, Andrew Ashley – Langan James Hsu – SD Builders - General Contractor Lucas Alvarez – Rise Concrete (Rise) – Foundation Contractor Able Siquij – Anel Queens Construction Inc. (Anel) – Drilling Contractor Adam Hutchinson – Lakewood Environmental Services Corp. (Lakewood) - Driller		
OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:			
<p>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:</p> <p>Site Activities</p> <ul style="list-style-type: none"> Anel used a Casagrande drill rig to install soldier piles along the southern and eastern site boundaries to a maximum depth of about 30 feet below grade surface (bgs). Lakewood used a Geoprobe 6620DT drill rig to advance thirteen soil borings (SB-101, SB-102, SB-103, SB-104, SB-105, SB-111, SB-112, SB-113, SB-114, SB-115, SB-118, SB-119 and SB-120) to a depth of 20 feet bgs in the northern, eastern, and southern parts of the site for waste characterization sampling. Fill/soil was screened for odors, staining, and organic vapors using a photoionization (PID); evidence of impacts were not observed and the fill/soil was backfilled into the borehole locations to be removed at a later date. Lakewood excavated two about 1-foot-long, 1-foot-wide, 2-foot-deep test pits (TP-01 and TP-02) to a depth of 2 feet bgs for waste characterization sampling. Excavated fill was screened for odors, staining, and organic vapors using a PID; evidence of impacts were not observed and the excavated fill was backfilled into its original location to be removed at a later date. <p>Material Tracking</p> <ul style="list-style-type: none"> No material was exported from the site. No material was imported to the site. 			
Cc:	L. Haley, K. Semon, B. Gochenaur (Langan)	By:	Lauren Roper
		LANGAN	

SITE OBSERVATION REPORT

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:

- Five composite samples (WC04_COMP_0-20, WC06_COMP_0-5, WC06_COMP_5-10, WC06_COMP_10-20 and WC07_COMP_0-20) comprised from thirteen soil borings (SB-101 through SB-105, SB-111 through SB-115, and SB-118 through SB-120) and two test pits (TP-01 and TP-02) 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.
- Nine grab samples, WC04_GRAB_1-2, WC06_GRAB_2-3, WC06_GRAB_4-5, WC06_GRAB_5-6, WC06_GRAB_7-8, WC06_GRAB_12-13, WC06_GRAB_15-16, WC07_GRAB_0-1, and WC07_GRAB_3-4 were collected and analyzed for TCL volatile organic compounds (VOC) and/or extractable petroleum hydrocarbons (EPH).
- Two duplicate samples (SODUP01_110822_GRAB and SODUP01_110822_COMP) 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). Fifteen-minute average concentrations of VOCs did not exceed action levels established by the community air monitoring plan (CAMP).

- Concentrations of PM10 and VOCs were not recorded at the upwind monitoring station from 12:44 to 12:57 and at the downwind monitoring station from 12:58 to 13:16 due to a server error. A field technician was contacted and the issue was resolved. Fugitive dust and odors were not observed leaving the site.
- Fifteen-minute average concentrations of PM10 exceeded action levels at the downwind monitoring station from 14:01 to 14:15 and 14:29 to 14:44 due to off-site concrete cutting activities adjacent to the station. Rise applied a constant stream of water to the work area and concentrations returned below action levels. Exceedances were not the result of ground-intrusive.

Particulate Monitoring (mg/m ³)			Organic Vapor Monitoring (ppm)		
Daily background	0.003		Daily Background	0.2	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	0.003	0.036	Daily Time Weighted Average	0.2	0.0
Maximum 15-min Average	0.060	0.376	Maximum 15-min Average	0.8	0.1
Minimum 1-min Instant Reading	0.002	0.000	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	0.538	2.340	Maximum 1-min Instant Reading	0.8	1.4

mg/m³ = milligrams per cubic meter

ppm = parts per million

NA = Not Available

Cc:	L. Haley, K. Semon, B. Gochenaur (Langan)	By:	Lauren Roper
			LANGAN

SITE OBSERVATION REPORT

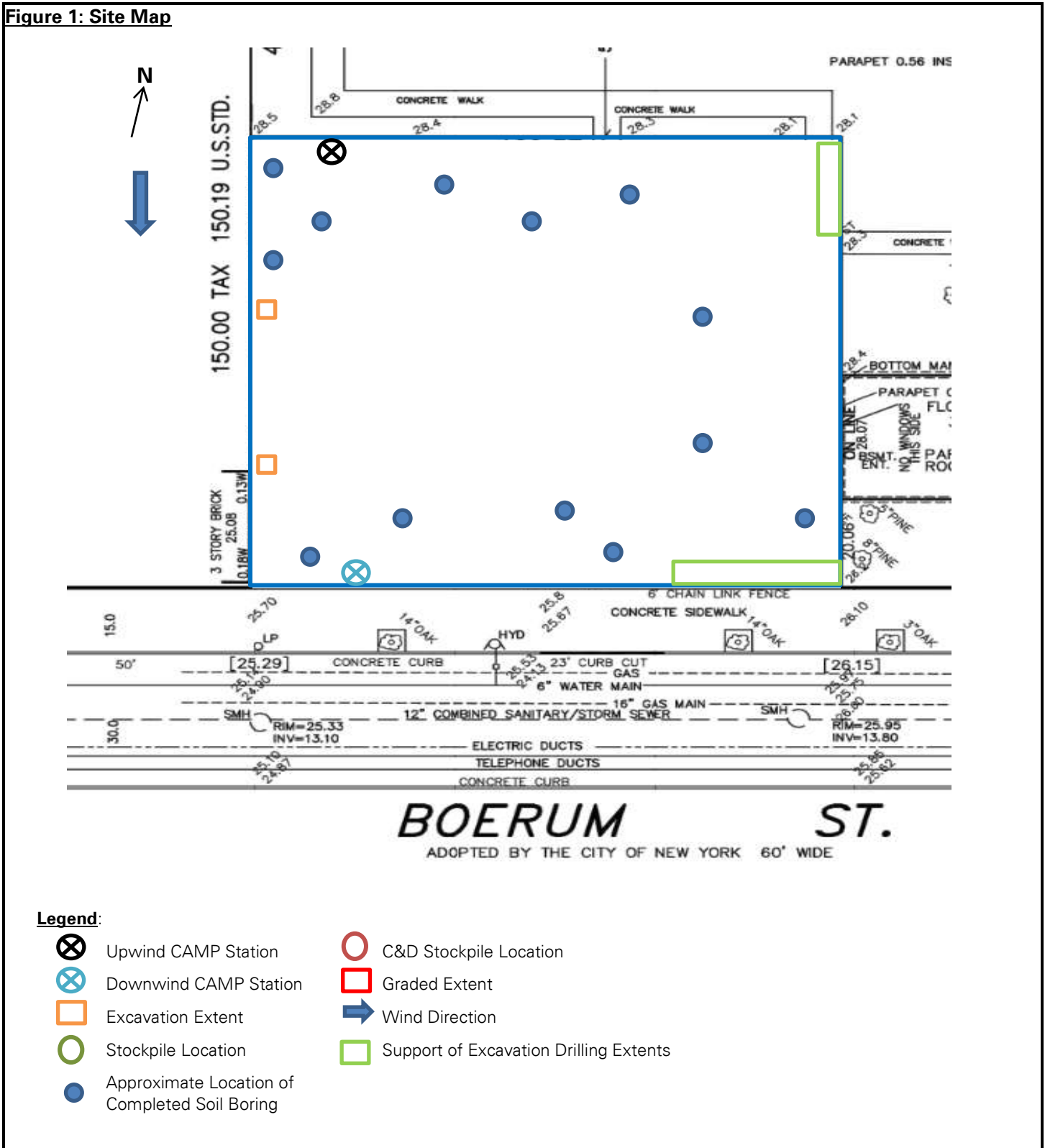
Anticipated Activities

- Anel will continue to install soldier piles around the site boundary.

Cc:	L. Haley, K. Semon, B. Gochenaur (Langan)	By:	Lauren Roper
			LANGAN

SITE OBSERVATION REPORT

Figure 1: Site Map



Cc:	L. Haley, K. Semon, B. Gochenaur (Langan)	By:	Lauren Roper
		LANGAN	

SITE OBSERVATION REPORT

SITE PHOTOGRAPHS



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



Photo 2: View of Rise applying water to the concrete sawing activities to minimize dust (facing east).

Cc:	L. Haley, K. Semon, B. Gochenaur (Langan)	By:	Lauren Roper
			LANGAN