LANGAN SITE OBSERVATION REPORT – Pile Installation Oversight – Day 06

PROJECT No.:	170390001	**CLIENT:**	Third Street Owner LLC and 155 Third St., LLC	**DATE:**	Thursday, 14 September 2023
PROJECT:	141 3rd Street			**WEATHER:**	Sunny, 79-85 ^{0}F Wind: WNW @ 0.6-4.6 mph
LOCATION:	Brooklyn, New York			**TIME:**	7:00 a.m. – 5:00 p.m.
BCP SITE ID:	C224336				

EQUIPMENT:
Soilmec SR-75 ADV Hydraulic Rotary Rig
Liebherr LB36 410 Rotary Drilling Rig
Junttan PM 25H Pile Driving Rig
FES FR180X-IV Rotary Drill Rig
Specto Technology Aeroqual Air Monitoring Stations (2)
Hyundai HX520L Excavator
Kotmasu PC400 Excavator
CAT 966G Excavator

PRESENT AT SITE:
Langan: Andrew Ashley, TJ Malgieri
Monadnock Construction, Inc. (Construction Management):
Jim Spence – Superintendent
New Leaf Development (Pile Installation Contractor):
Jose Gomez – Foreman
WSP (NYSDEC Consultant): Dave Cuomo

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) was present to oversee implementation of soil handling procedures and document installation of foundation displacement piles in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved Excavation Work Plan, dated 17 February 2022, and the associated Change of Use Notification, dated 09 August 2023.

Site Activities

- New Leaf used a Soilmec SR-75 ADV Hydraulic Rotary Rig to advance two reaction displacement piles east and west of pile cap 93, and one reaction displacement pile west of pile cap 13 to about 63 feet below grade surface (bgs) in the central-southwest and northeast parts of the site, respectively.
    - Less than one cubic yard of drilling spoils were generated during pile installation and were stockpiled adjacent to the reaction displacement pile for future off-site disposal. Langan screened the drilling spoils for odors, staining, and organic vapors using a photoionization detector (PID). No evidence of impacts was observed.
    - New Leaf used a tremie pipe to place grout within the reaction displacement piles. Excess grout will be stockpiled and managed as construction and demolition (C&D) debris at a later date.
- A representative from WSP conducted a site visit on behalf of the NYSDEC. No adverse conditions were noted as a result of the site visit and no further action was required.

Material Tracking

- No material was imported.
- No material was exported.

Sampling

- None.

Community Air Monitoring Plan (CAMP) Activities

- Langan implemented the CAMP at upwind and downwind locations to monitor volatile organic compounds (VOC) and particulate matter (PM10). 15-minute-average concentrations of VOCs and PM10 were not recorded above the action levels. No fugitive dust and odors associated with intrusive activities were observed migrating off site.

Particulate Monitoring (µg/m^3)		Organic Vapor Monitoring (ppm)	
Daily Background	3.3	Daily Background	0.01
Minimum 15-min Average	0.0	Minimum 15-min Average	0.00
Maximum 15-min Average	3.0	Maximum 15-min Average	0.01

µg/m^3= micrograms per cubic meter ppm= parts per million

Anticipated Activities

- New Leaf will continue to advance reaction and building foundation displacement piles.

SITE PHOTOGRAPHS:

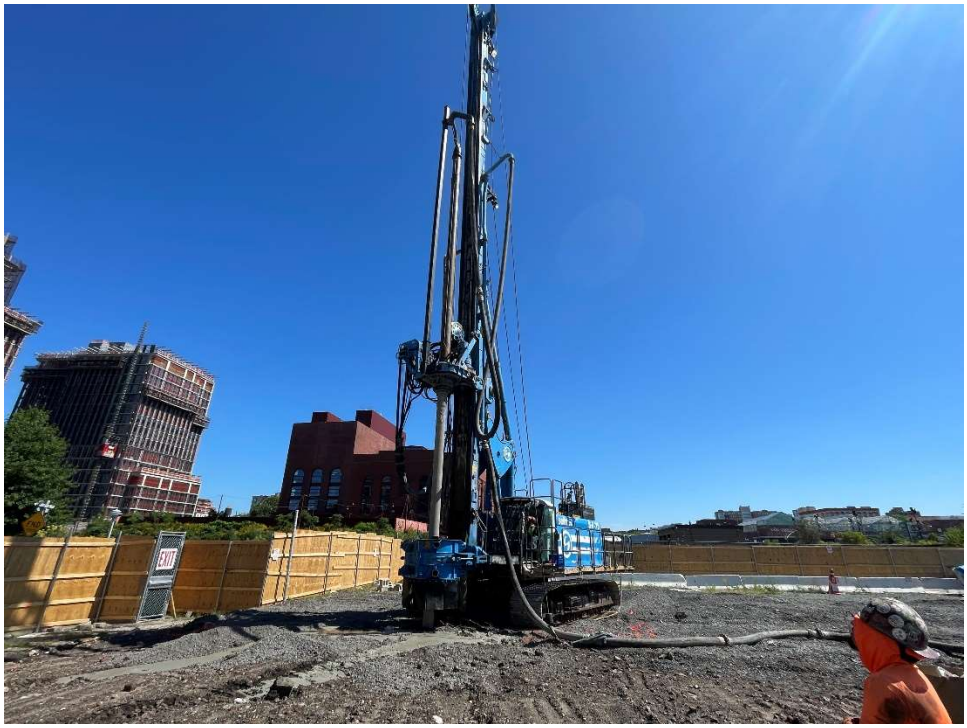
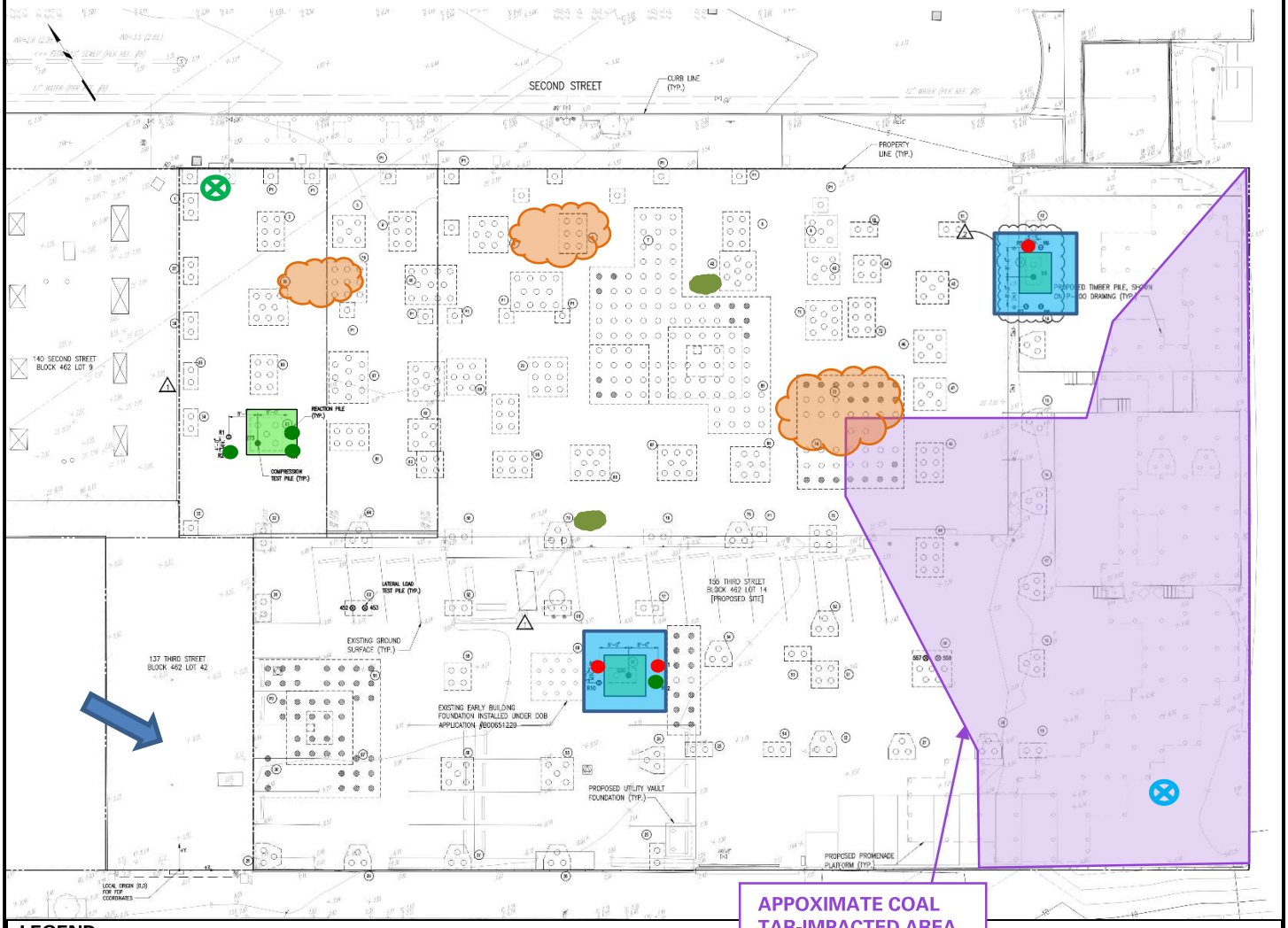


Photo 1: New Leaf advancing a reaction displacement pile to the west of pile cap 13 (facing east).



Photo 2: Site entrance on 3rd Street (facing northwest).

Site Map:



LEGEND

- Approximate Location of Displacement Pile Advanced Today
- Approximate Location of Displacement Pile Advanced Previously
- Approximate Location of Displacement Pile Installation and Load Testing
- Approximate Work Area
- Approximate location of upwind CAMP Station
- Approximate location of downwind CAMP Station
- Approximate location of C&D Debris Stockpile
- Approximate location of Timber Stockpile
- Prevailing Wind Direction

Basemap is referenced from Drawing FO-099.01, titled "Deep Foundations Plans and Details" prepared by Dattner Architects D.P.C, dated 12/27/2022.

Drawing Shown Not to Scale

LANGAN	Air Monitoring Report	170390002 - 141 3rd Street	
		Report Period	
		From:	9/14/2023 06:00
		To:	9/14/2023 18:00
		PM10 Action Level:	150.0 µg/m³
		VOC Action Level:	5.00 ppm

Daily Environmental Summary	Windspeed (mph)	Prevailing wind direction
9/14/2023	0.6-4.6	WNW

Daily Monitoring Summary	PM10 (µg/m³)	Time	VOC (ppm)	Time
Min Contribution (15 min avg.) - 9/14/2023	0.0	08:04	0.00	08:04
Max Contribution (15 min avg.) - 9/14/2023	3.0	13:37	0.01	16:00

