LANGAN SITE OBSERVATION REPORT – Pile Installation Oversight – Day 07

PROJECT No.:	170390001	**CLIENT:**		**DATE:**	Friday, 15 September 2023
PROJECT:	141 3rd Street		Third Street Owner LLC and 155 Third St., LLC	**WEATHER:**	Cloudy, 58-75 ^{0}F Wind: NW @ 0.8-6.4 mph
LOCATION:	Brooklyn, New York			**TIME:**	7:00 a.m. – 6:00 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
Monadnock Construction, Inc. (Construction Management):
Jim Spence – Superintendent
New Leaf Development (Pile Installation Contractor):
Jose Gomez – Foreman

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 northeast and southwest of pile cap 13, and one reaction displacement pile northwest of pile cap 93 to about 63 feet below grade surface (bgs) in the northeast and central-southwest 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.

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	0.02
Minimum 15-min Average	0.0	Minimum 15-min Average	0.00
Maximum 15-min Average	5.1	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 displacement piles.

SITE PHOTOGRAPHS:

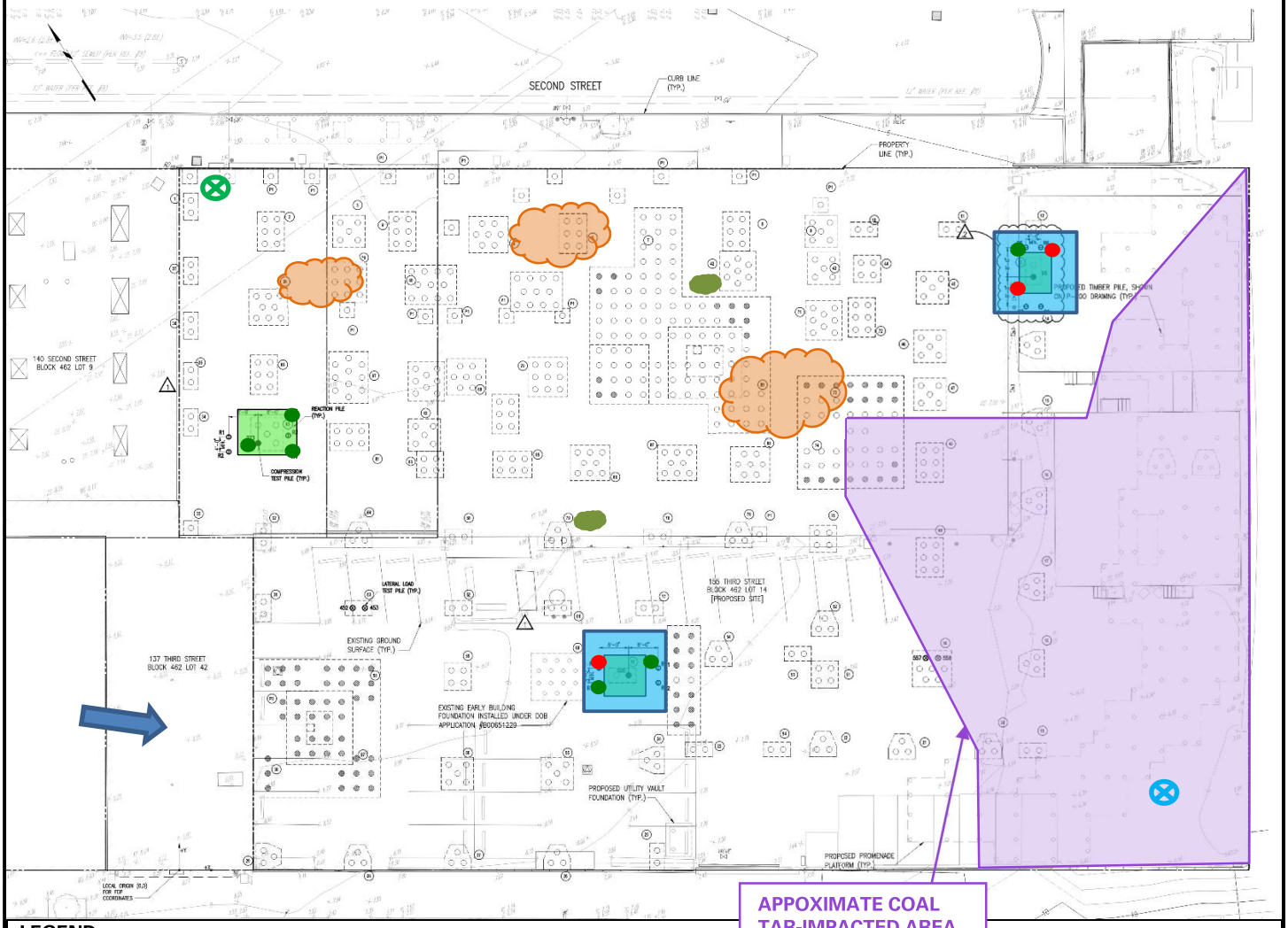


Photo 1: New Leaf advancing a reaction displacement pile to the southwest of pile cap 13 (facing east).



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