SITE OBSERVATION REPORT – RAWP Implementation – Day 26

LANGAN

PROJECT No.:	170390001	**CLIENT:**		**DATE:**	Wednesday, 20 November 2024
PROJECT:	141 3rd Street	Third Street Owner LLC and 155 Third St., LLC		**WEATHER:**	Cloudy 49 - 59 ^{0}F Wind: ENE @ 4.35 – 5.9 mph
LOCATION:	Brooklyn, New York			**TIME:**	7:00 a.m. – 7:45 p.m.
BCP SITE ID:	C224336			**MONITOR:**	JN Stanley

EQUIPMENT:	**PRESENT AT SITE:**
Hyundai HX520L PC 400 Komatsu Liebherr LRB 355-450	**Langan**: JN Stanley **Monadnock Construction (Construction Management)**: John Henry **New Leaf (Development/Drilling Contractor)**: Jose Gomez **Amaracon Testing & Inspections, LLC (Amaracon):** Juan Cardona **Roux Environmental Engineering and Geology, D.P.C:** James Smyth **WSP (NYSDEC Consultant):** Christopher Disclafani

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was onsite to document implementation of the New York State Department of Environmental Conservation (NYSDEC)-approved Remedial Action Work Plan (RAWP) dated 12 December 2024, and Remedial Design Document (RDD) for In-Situ Stabilization/Solidification (ISS) dated 5 April 2024.

Site Activities

- New Leaf continued ISS pilot test implementation and mixed columns ISS-15 and ISS-35 to elevation - 26.5±. Generated grout spoils were left in place and covered with polyethylene sheeting at the end of the workday.
- Amaracon collected quality control (QC) samples from ISS-15 and ISS-35. See Sampling section below for details.
- A representative from WSP conducted a site visit. No adverse conditions were noted as a result of the site visit and no further action was required.

Sampling

- Amaracon collected a total of 20 QC samples of the ISS mix from column ISS-15 and ISS-35 (10 samples from each column). The samples were collected within the treatment interval at elevation -18.5±. The samples will be analyzed for unconfined compressive strength and hydraulic permeability at Amaracon's testing facility.

Community Air Monitoring Plan (CAMP) Activities

- Langan performed continuous air monitoring for volatile organic compounds (VOC) and particulate matter smaller than 10 microns in diameter (PM10) using two perimeter air monitoring stations at upwind and downwind locations. The PM10 and VOC action levels were not exceeded during the monitoring period. Recorded air monitoring data is presented on CAMP summary data sheet appended to the end of this Daily Field Report. The graphs on the CAMP summary data sheet show PM10 and VOC concentration as site contribution (downwind concentrations subtracted by upwind concentration).

Material Tracking

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

Material Import Summary				
Facility	**NYSDEC Approved Quantity**	**Imported**	**Today**	**Total**
Tilcon - Haverstraw Haverstraw, NY ASTM #3 Virgin Stone (1.5-Inch)	400 CY (560 tons)	**No. Loads**	0	**4**
		Quantity (tons)	0	**89.95**
Impact Materials Jersey City (IMJC) Jersey City, NJ 0.75-inch Stone	2,000 CY (2,800 tons)	**No. Loads**	0	**0**
		Quantity (tons)	0	**0**
IMJC Jersey City, NJ 1.5-inch Stone	400 CY (560 tons)	**No. Loads**	0	**2**
		Quantity (tons)	0	**49.65**

Drums

- One 55-gallon drum containing purged groundwater and dense non-aqueous phase liquid (DNAPL) is staged in the east-central part of the site.
- One 55-gallon drum containing decontamination fluid and purged groundwater is staged in the east-central part of the site.
- Six 55-gallon drums containing soil cuttings are staged in the eastern part of the site.
- One 55-gallon drum containing soil cuttings is staged in the southern part of the site.

Anticipated Activities

- New Leaf will continue ISS implementation.

SITE PHOTOGRAPHS:

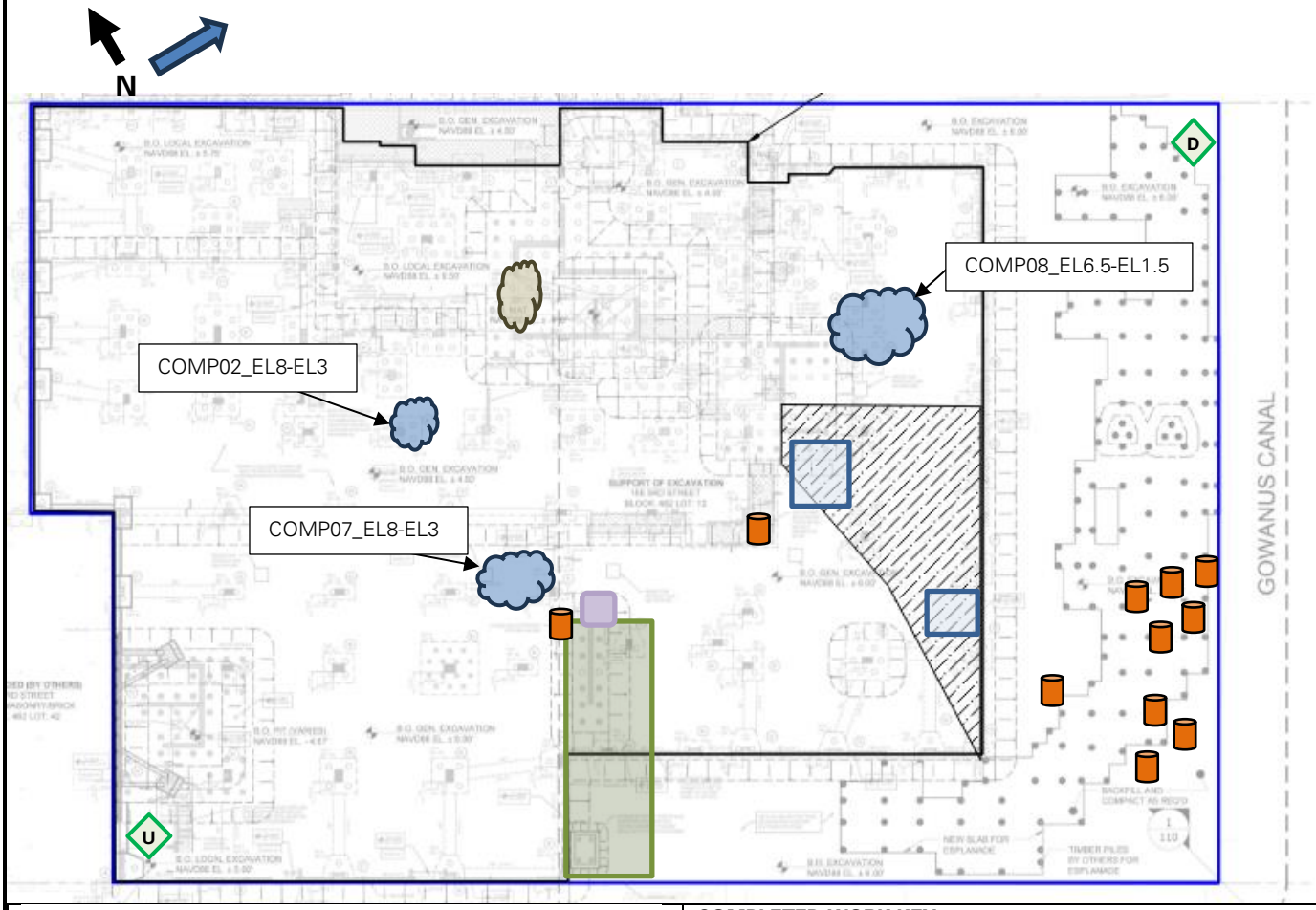


Photo 1: New Leaf mixing ISS-15 (facing north).



Photo 2: Polyethylene sheeting covering generated grout spoils at the end of the workday (facing east).

SITE MAP:



LEGEND:

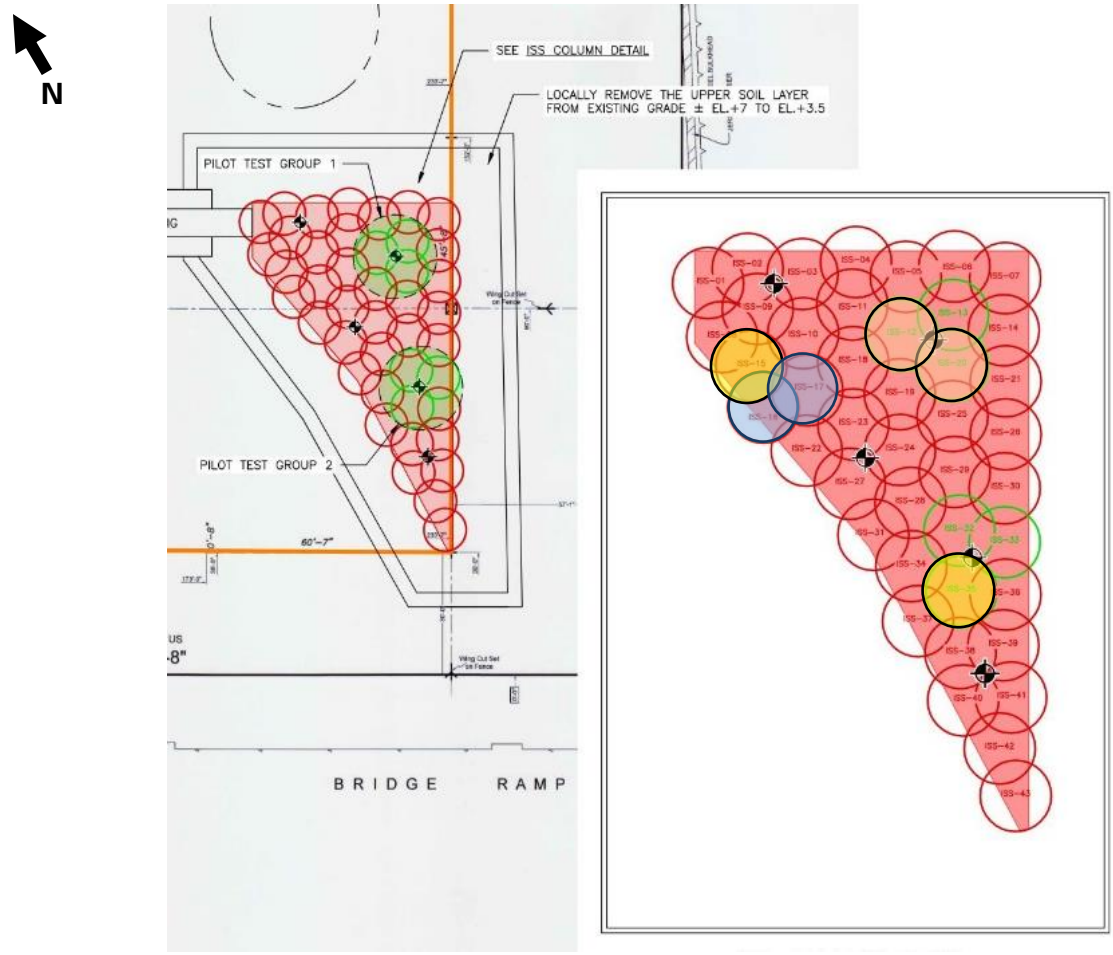
- APPROXIMATE SITE BOUNDARY
- PROPOSED BUILDING FOOTPRINT
- APPROXIMATE PROPOSED EXTENT OF ISS AREA TO BE EXCAVATED TO 4 FEET BGS (EL. 3.5± FEET NAVD88)

COMPLETED WORK KEY

- Approximate work area
- Approximate location of upwind CAMP station
- Approximate location of downwind CAMP station
- Approximate location of drum
- Approximate wind direction
- Stockpiled soil/fill
- Stockpiled C&D debris
- Stockpiled imported stone
- Temporary stabilized construction entrance
- Truck wash catch basin

Base map includes Figure 5 – Pre-ISS Excavation Plan from the NYSDEC-approved RDD for ISS, prepared by Langan Engineering, dated 4/5/2024

ISS Progress Map:



LEGEND

- FOOTPRINT OF FORMER BUILDING
- PROPOSED ISS PRODUCTION COLUMNS 10.5 FOOT DIAMETER
- PROPOSED ISS PILOT TEST COLUMNS 10.5 FOOT DIAMETER
- PROPOSED QA/QC PRODUCTION CORE LOCATION
- PROPOSED EXTENT OF ISS AREA

COMPLETED WORK KEY

- ISS cell mixed today
- ISS cell previously mixed
- ISS cell to be remixed

Base map includes Figure 2 – Project Implementation Plan In-Situ Stabilization/Solidification, prepared by Roux Environmental and Geology, D.P.C, dated October 2024

ISS Progress Table:

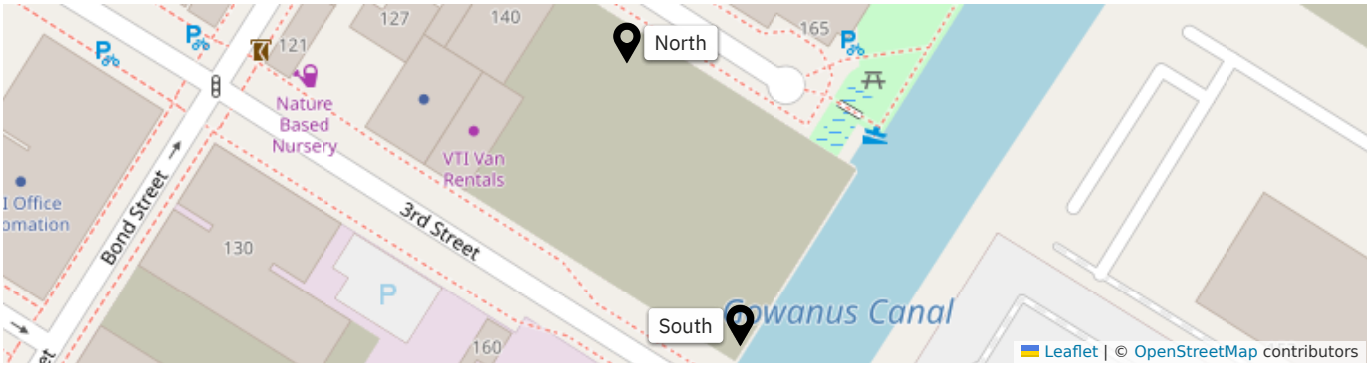
ISS Column ID	Coordinates (N, E)	Interval (el)	Mixing Time Per Interval (min)	Reagent Additional Per Interval (gal/min)	Injection Pressure (psi)	Injection Rate (psi/min)	Rotational Speed (RPM)	Advance Rate (ft/min)	No. of Passes
ISS-20	98.87, 221.23	3.5± to -13.5±	9.23	50	50	6.5	30	3.75	1
		-13.5± to -26.5±	9.23	50	50	6.5	30	3.75	1
ISS-12	103.418, 213.788	3.5± to -11.5±	15	50	N/A	N/A	15	1.4	1
		-11.5± to -16.5±	10	50	N/A	N/A	15	0.4	1
		-16.5± to -21.5±	10	50	N/A	N/A	15	0.4	N/A
ISS-16	92.59, 193.29	1.89± to -26.5±	270	50	N/A	N/A	17	N/A	1
ISS-17	95.14, 199.81	5.5± to -26.5±	170	50	N/A	N/A	18	5.3	1
ISS-15	98.75, 191.97	5.5± to -26.5±	160	50	N/A	N/A	16	5	1
ISS-35	65.47, 222.59	4.41± to -26.5±	335	50	N/A	N/A	16	10.5	2

1. Coordinates were measured in northing and eastings from the project datum.

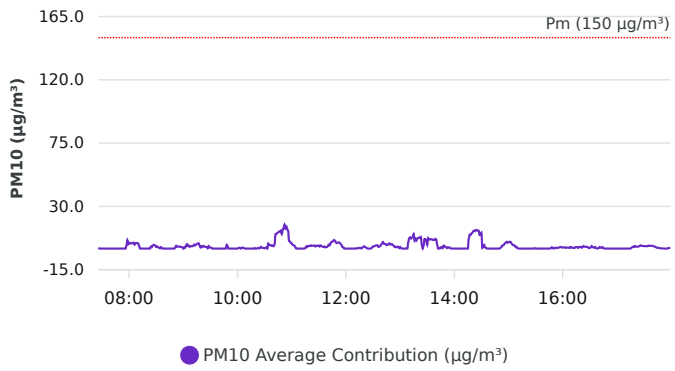
LANGAN	Air Monitoring Report	170390002 - 155 3rd St Brooklyn	
		Report Period	
		From:	11/20/2024 06:00
		To:	11/20/2024 18:00
		PM10 Action Level:	150 µg/m³
		VOC Action Level:	5 ppm

Daily Environmental Summary	Temp (°F)	Relative Humidity (%)	Barometer (inHg)	Windspeed (mph)	Prevailing wind direction
11/20/2024	-	-	-	0.1-3.4	ENE

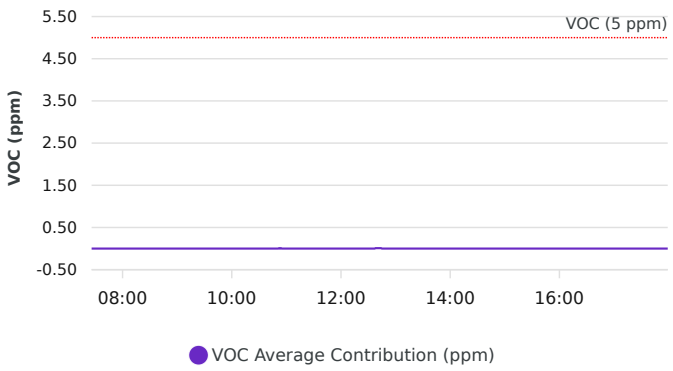
Daily Monitoring Summary	PM10 (µg/m³)	Time	VOC (ppm)	Time
Min Contribution (15 min avg.) - 11/20/2024	0.0	07:27	0.00	07:26
Max Contribution (15 min avg.) - 11/20/2024	17.1	10:52	0.01	10:52



PM10 Average Contribution (µg/m³)



VOC Average Contribution (ppm)



Contribution wind rose (mph)

