SITE OBSERVATION REPORT – RAWP Implementation – Day 36

LANGAN

PROJECT No.:	170390001	**CLIENT:**		**DATE:**	Friday, 3 January 2025
PROJECT:	141 3rd Street			**WEATHER:**	Sunny, 34 - 37 ^{0}F Wind: WSW @ 2.1 – 9.8 mph
LOCATION:	Brooklyn, New York	Third Street Owner LLC and 155 Third St., LLC		**TIME:**	7:00 a.m. – 1:30 p.m.
BCP SITE ID:	C224336			**MONITOR:**	Ellie Seery, JN Stanley

EQUIPMENT: MiniRae 3000 CME LC45 Rotary Drill Rig	**PRESENT AT SITE:** **Langan**: Ellie Seery, JN Stanley, Paul McMahon **Monadnock Construction (Construction Management)**: John Henry **New York State Department of Environmental Conservation (NYSDEC):** Joseph Ludwin **WSP:** Chris Descalfani **Aquifer Drilling & Testing, Inc. (ADT):** Tony Palomeque **AARCO Environmental Services Corp. (AARCO):** Jose Garcia

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

- ADT used a CME LC45 rotary drill rig to advance core location C1-R2 (representative of previously mixed cells ISS-32, ISS-33 and ISS-35) to about 33 feet below grade surface (bgs) (elevation [el.] -26±) to document mixture consistency in the ISS pilot test area. Cores and drilling equipment were inspected for visible non-aqueous phase liquid (NAPL), percent of core sample recovered, and NAPL coating on drilling tools.
    - The cores demonstrated a homogenous mix in ISS pilot test cells.
    - Following completion of cores, each location was tremie-grouted from the base of the core to surface grade.
    - ISS cores were retained on site in wood core boxes and will be maintained on site through the remediation.
- AARCO removed eight drums containing previously purged groundwater and soil cuttings. The drums were transported to Dale Transfer Corp. in West Babylon, New York for off-site disposal.

Sampling

- No samples were collected.

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

- AARCO exported eight drums containing previously purged groundwater and soil cuttings for off-site disposal to Dale Transfer Corp. in West Babylon, New York.
- 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 DNAPL is staged in the southern part of the site.
- One 55-gallon drum containing truck wash water is staged in the central part of the site.
- One 55-gallon drum containing purged groundwater is staged in the southern part of the site.

Anticipated Activities

- Langan will continue RAWP implementation.

SITE PHOTOGRAPHS:

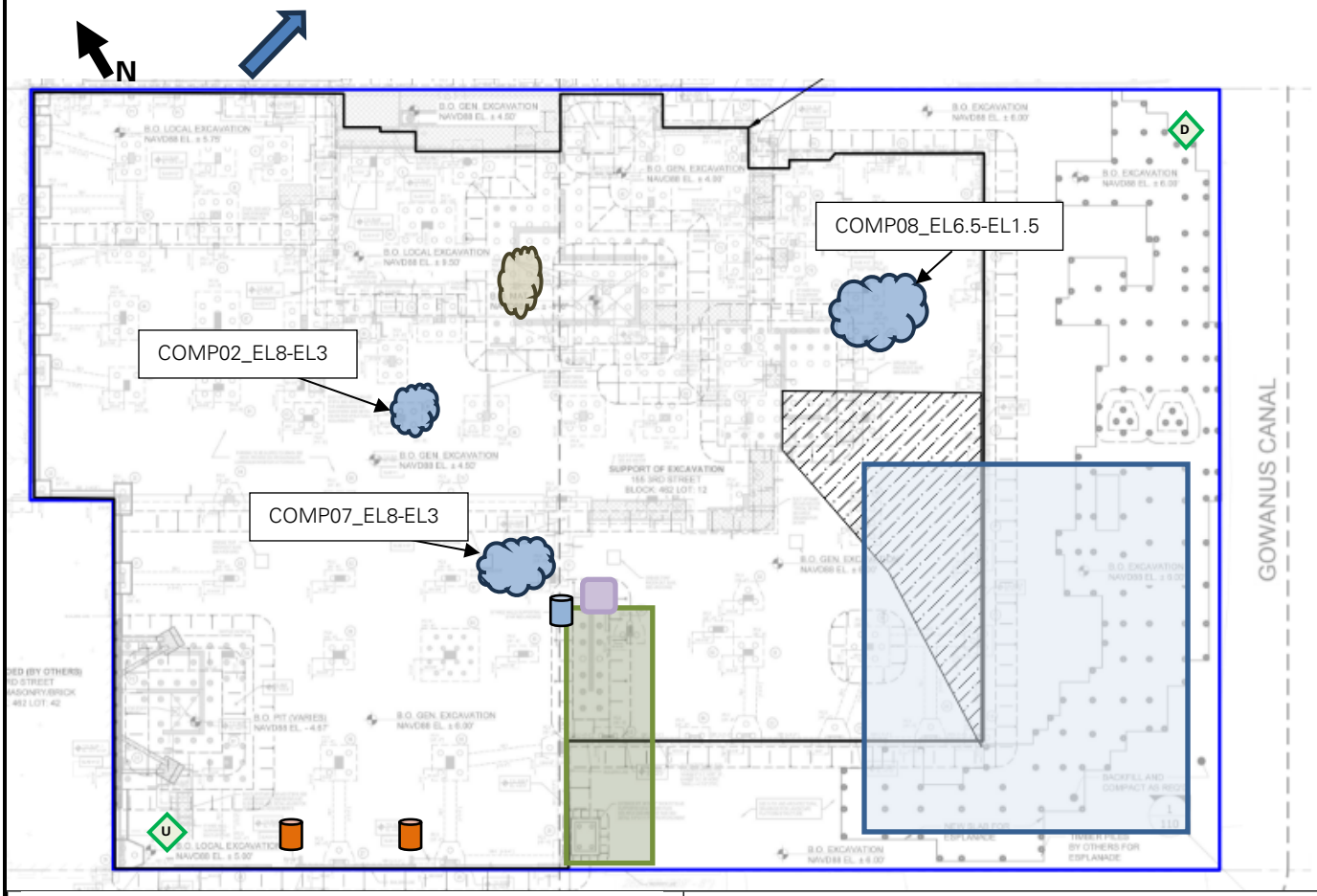


Photo 1: ADT advancing boring location C1-R2 (facing north).



Photo 2: Recovered rock core from C1-R2.

FIGURE 1 - 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)

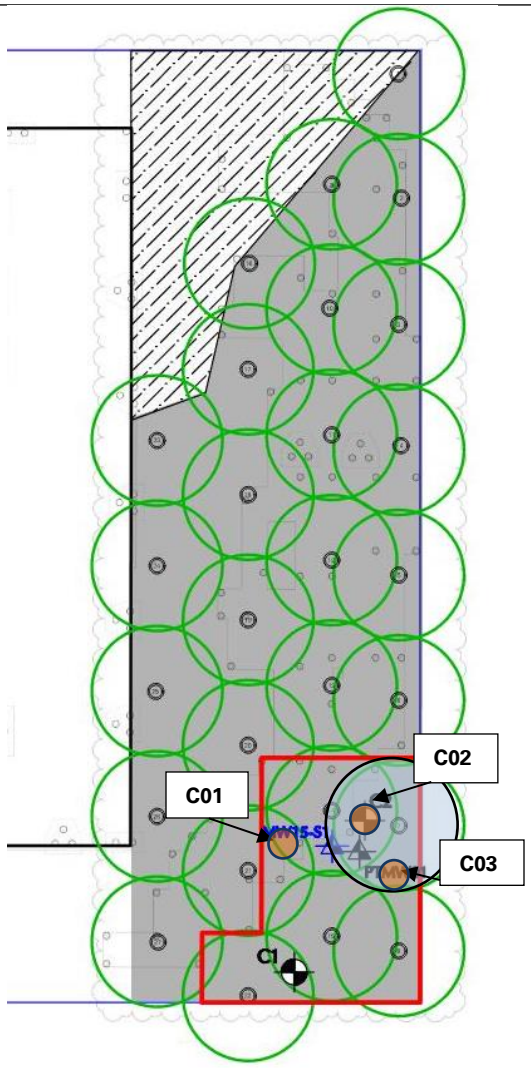
COMPLETED WORK KEY

- Approximate work area
- Approximate location of upwind CAMP station
- Approximate location of downwind CAMP station
- Approximate location of drum
- Approximate location of truck wash 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

FIGURE 2 - ISGS PROGRESS MAP

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LEGEND:

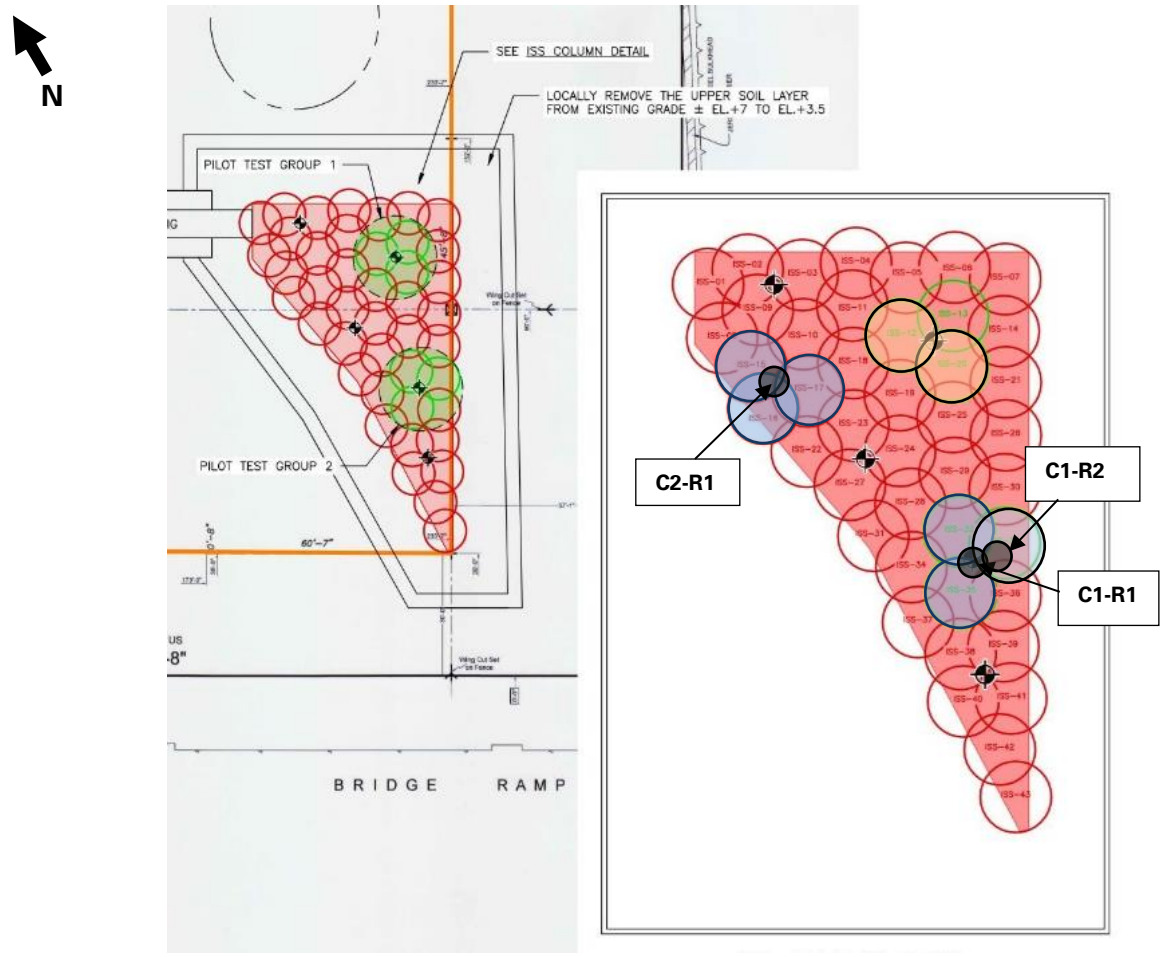
- APPROXIMATE SITE BOUNDARY
- PROPOSED BUILDING FOOTPRINT
- APPROXIMATE PROPOSED EXTENT OF ISGS AREA BETWEEN EL. -19± TO EL. -23±
- APPROXIMATE PROPOSED EXTENT OF ISGS SUPPORT/LAYDOWN AREA
- APPROXIMATE PROPOSED TEMPORARY DIRECT-PUSH INJECTION POINT LOCATION
- APPROXIMATE ROI (13-FOOT RADIUS, 25-FOOT SPACING)
- C1 — APPROXIMATE PROPOSED PILOT TEST QA/QC CORE LOCATION
- APPROXIMATE ISGS PILOT TEST AREA
- MW15-S1 — EXISTING MONITORING WELL LOCATION
- PTWM01 — PROPOSED MONITORING WELL LOCATION

COMPLETED WORK KEY

- ISGS injection point completed today
- ISGS injection point previously completed
- Core location completed today
- Core location previously completed

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

FIGURE 3 - 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 FROM EL. −16 TO −25±"

COMPLETED WORK KEY

- ISS cell mixed today
- ISS cell previously mixed
- ISS cell to be remixed
- Core location advanced

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

TABLE 1 - ISS PROGRESS TABLE:

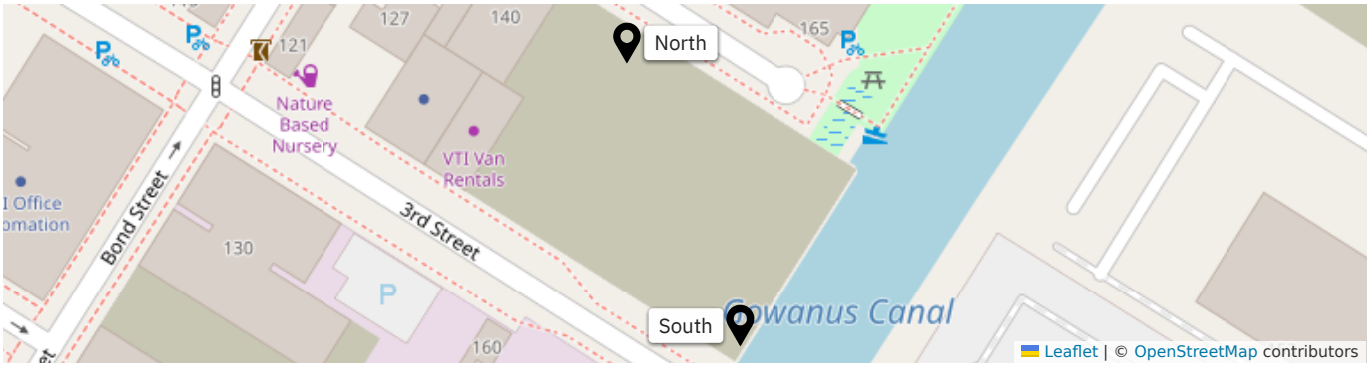
ISS Column ID	Coordinates (N, E)	Interval (el)	Mixing Time Per Interval (min)	Reagent Additional Per Interval (gal/min)	Injection Pressure (psi)	Injection Rate (psi/min)	Rotational Speed (RPM)	Advance Rate (ft/min)	No. of Passes
ISS-20	98.87, 221.23	3.5± to -13.5±	9.23	50	50	6.5	30	3.75	1
		-13.5± to -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	0.10	1
ISS-17	95.14, 199.81	5.5± to -26.5±	170	50	N/A	N/A	18	0.19	1
ISS-15	98.75, 191.97	5.5± to -26.5±	160	50	N/A	N/A	16	0.28	1
ISS-35	65.47, 222.59	4.41± to -26.5±	335	50	N/A	N/A	16	0.17	2
ISS-32	74.47, 222.33	5.5± to -26.5±	223	50	N/A	N/A	16	0.36	2
ISS-33	74.47, 229.01	5.5± to -26.5±	127	50	N/A	N/A	16	0.25	2

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

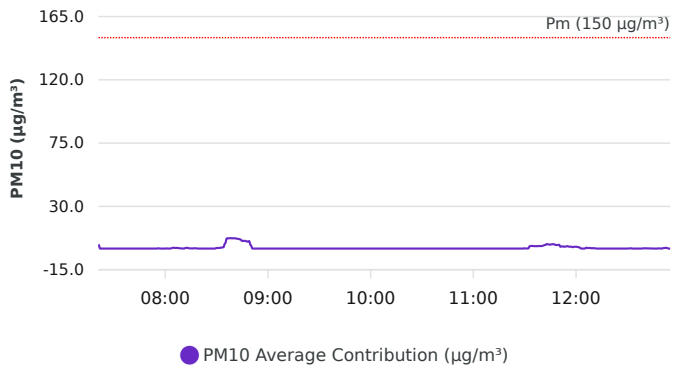
LANGAN	Air Monitoring Report	170390002 - 155 3rd St Brooklyn	
		Report Period	
		From:	1/3/2025 06:00
		To:	1/3/2025 18:00
		PM10 Action Level:	150 µg/m³
		VOC Action Level:	5 ppm

Daily Environmental Summary	Temp (°F)	Relative Humidity (%)	Barometer (inHg)	Windspeed (mph)	Prevailing wind direction
1/3/2025	-	-	-	2.1-9.8	WSW

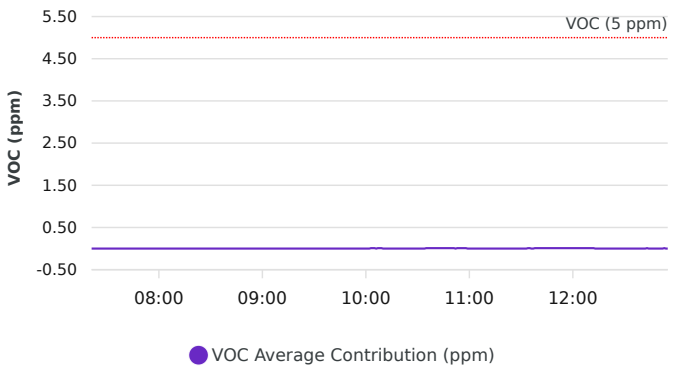
Daily Monitoring Summary	PM10 (µg/m³)	Time	VOC (ppm)	Time
Min Contribution (15 min avg.) - 1/3/2025	0.0	07:22	0.00	07:21
Max Contribution (15 min avg.) - 1/3/2025	7.4	08:38	0.01	10:03



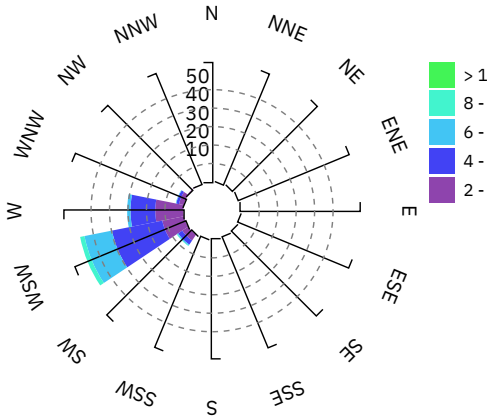
PM10 Average Contribution (µg/m³)



VOC Average Contribution (ppm)



Contribution wind rose (mph)



170390002 - 155 3rd St Brooklyn
Report date: 01/03/2025
A PM10 and VOC negative number filter has been applied to the averaged contribution data

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