LANGAN SITE OBSERVATION REPORT – Day 083

CLIENT: Gowanus Canal LLC and

GowCan Owner, LLC

PROJECT No.: 170295301

PROJECT: Gowanus Canal Northside

LOCATION: Brooklyn, New York

EQUIPMENT:

Komatsu PC 490 Excavator Junttan PM20/25 Drill Rig Komatsu PC 240 Excavator JLG HC3 Boom Lift

Komatsu PC 78 US Excavator APE Model 23.2 Vibratory Hammer

Komatsu Wheel Loader Junttan PM20US Drill Rig Geoprobe 54 DT Drill Rig **DATE:** Friday, December 16, 2022

WEATHER: Rain, 38 to 46 °F

Wind: NNE @ 13-26 mph

TIME: 6:30 – 15:30

BCP SITE ID: C224080

PRESENT AT SITE:

Langan: Mat Frankel, Brian Kenneally (Environmental),

Ashlene Bisram (Geotechnical)

Urban Atelier Group (UAG): Seth Anderson

Kingdom Associates, Inc. (Kingdom): Marcin Hulewicz,

George Minchala

Lakewood Environmental Services (Lakewood

Environmental): Tim Kelly

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan was on-site to document implementation of the New York State Department of Environmental Conservation (NYSDEC)-approved March 24, 2022 Remedial Action Work Plan (RAWP) for Brownfield Cleanup Program (BCP) Site No. C224080. Site Map 1 presents the Society Brooklyn and Sackett Place developments, which together comprise the BCP site.

Site Activities

- Kingdom exported previously stockpiled non-hazardous drilling spoils (SB_COMP_01-03-04_0-85 and SB_COMP_02-05_0-85) and historic fill from waste characterization cells WC02 and WC03 (WC02_COMP_0-5, WC03_COMP 0-5, and WC03_COMP_5-10) using permitted tri-axle trucks for off-site disposal. See material tracking section for details.
- Kingdom exported previously stockpiled construction and demolition (C&D) debris in permitted tri-axle trucks for off-site disposal. See material tracking section for details.
- Kingdom excavated an about 26-foot-long by 5-foot-wide area from about 6 feet below grade surface (bgs) to 9 feet bgs to install timber lagging for the support of excavation (SOE) system in the northern part of Society Brooklyn. Excavated material consisted of petroleum-impacted soil.
 - Excavated soil was screened for odor, staining, and organic vapor using a photoionization detector (PID). Petroleum-like impacts including petroleum-like odor and a maximum PID reading of 6.0 parts per million (ppm) were observed.
 - o The petroleum-impacted soil was temporarily backfilled into the excavation of origin pending future re-excavation and off-site disposal.
- Kingdom excavated an about 64-foot-long by 20-foot-wide area to about 3 feet bgs to install formwork for pile cap installation in the southeastern part of Society Brooklyn. Excavated material consisted of historic fill and C&D debris.
 - o Excavated historic fill was screened for odor, staining, and organic vapors using a PID. Petroleum-like impacts including petroleum-like odor and a maximum PID reading of 0.6 ppm were observed.
 - o The petroleum-impacted historic fill was temporarily stockpiled in the southern part of Society Brooklyn on top of and covered in polyethylene sheeting pending future off-site disposal.

Cc:	J. Hayes, M. Burke, P. Farnham, E. Adkins, A.	Ву:	Mat Frankel and Brian Kenneally
	Nesci		Langan, D.P.C.

- Excavated C&D debris was stockpiled in the central part of Society Brooklyn pending future off-site disposal.
- Kingdom installed dewatering piping for the dewatering system in the northern part of Sackett Place.
- Kingdom installed dewatering wells to a maximum depth of 20 feet bgs for the dewatering system in the northern part of Sackett Place.
- Lakewood Environmental continued implementing in-situ groundwater remediation via direct-push remedial injections in the western part of Society Brooklyn and west-adjoining Bond Street sidewalk.
 - Lakewood Environmental used a Geoprobe 54 DT drill rig to advance two low concentration remedial injection point and three high concentration remedial injection points. A 4-foot-long screen was used to evenly distribute PetroFix injectate from about 7 to 17 feet bgs at the low concentration injection point and from about 7 to 22 feet bgs at the high concentration injection points.
 - A temporary monitoring well consisting of 1-inch polyvinyl chloride (PVC) riser and a four-foot-long 0.10-inch slotted screen was used to distribute injectate from 10 to 14 feet bgs at a previously advanced low concentration remedial injection point IP23_LC. IP23_LC is anticipated to be completed Monday, 12/19/2022.
 - The injectate consisted of PetroFix (a finely ground powdered activated carbon from Regenesis), water, and an electron acceptor blend. The solution was continuously injected in 4-foot intervals into injection point IP09_HC.
 - Injections were started in injection points IP08_HC, IP12_HC, IP32_LC, and IP33_LC; however, due to daylighting of the injectate, these injection points will be completed at a future date.
- Langan gauged and collected water quality parameters from off-site monitoring well MW27. No light non-aqueous phase liquid (LNAPL) was identified.

Import and Export Tracking

- Kingdom exported 13 truckloads of non-hazardous drilling spoils (SB_COMP_01-03-04_0-85 and SB_COMP_02-05_0-85) and historic fill from waste characterization cells WC02 and WC03 (WC02_COMP_0-5, WC03_COMP_0-5, and WC03_COMP_5-10) to Bayshore Soil Management (BSM) in Keasbey, NJ.
- Kingdom exported 5 truckloads of C&D to Faztec Industries in Staten Island, NY.
- No material was imported to the site.

Soil/Fill Export Summary					
Facility	Exported	Today	Total		
Bayshore Soil Management	No. Loads	13	402		
Keasbey, NJ Non-Hazardous Soil/Fill	Quantity (CY)	260	8,040		
Bayshore Soil Management	No. Loads	0	79		
Keasbey, NJ Non-Hazardous MGP-Impacted Soil/Fill	Quantity (CY)	0	1,580		

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Material Import Summary					
Facility	NYSDEC Approved Quantity (CY)	Imported	Today	Total	
Stavola Construction Materials, Inc	1,000	No. Loads	0	6	
Bridgewater, NJ 2.5-inch Stone		Quantity (CY)	0	120	
87 19 th Avenue		No. Loads	0	13	
Astoria, NY 2.5-inch Stone	2,000	Quantity (CY)	0	290	
Impact Environmental Jersey City, NJ 2,000 0.5-inch Crushed Stone	No. Loads	0	2		
	∠,000	Quantity (CY)	0	40	

Sampling

• No samples were collected.

Community Air Monitoring

• Due to persistent rain, community air monitoring was not implemented. No dust or odor were apparent onsite.

Anticipated Activities

- Kingdom will continue to install SOE at Society Brooklyn and Sackett Place.
- Kingdom will continue dewatering system installation in the northern part of Sackett Place.
- Lakewood Environmental will continue remedial injections of PetroFix in the western part of Society Brooklyn and the west-adjoining Bond Street sidewalk.

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Site Photographs:



Photo 1: Kingdom loading a permitted tri-axle truck with non-hazardous drilling spoils and historic fill for off-site disposal from Society Brooklyn (facing northeast)



Photo 2: Kingdom excavating to install formwork for pile caps in the eastern part of Society Brooklyn (facing northeast)

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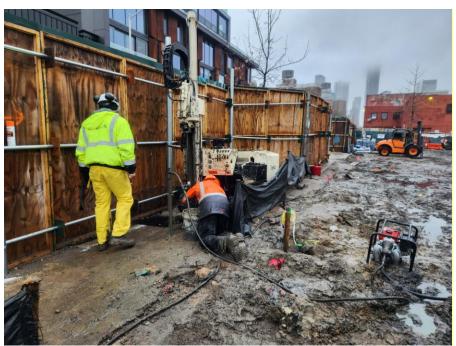


Photo 3: Lakewood Environmental implementing in-situ groundwater remediation via direct-push remedial injections in the west-adjoining Bond Street sidewalk (facing northwest)

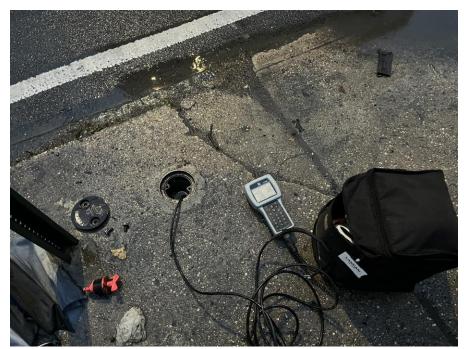


Photo 4: Langan collecting groundwater parameters from off-site monitoring well MW27

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Site Map 1: **DEGRAW STREET Society Brooklyn** BOND STREET **GOWANUS CANAL** SACKETT STREET **UNION STREET** Legend Approximate BCP site boundary --- Approximate construction fence boundary Notes Base map adapted from 24 March 2022 RAWP, Figure 2 – Site Plan. 1. This Site Map is provided for context only; refer to the Northern (Society Brooklyn) and Southern (Sackett Place) Work Area Maps on the following pages for work and air monitoring location(s). Cc: J. Hayes, M. Burke, P. Farnham, E. Adkins, A. Ву: Mat Frankel and Brian Kenneally Nesci Langan, D.P.C.

