

LANGAN SITE OBSERVATION REPORT – Day 056

CLIENT:	Gowanus Canal LLC and GowCan Owner, LLC	DATE:	Friday, November 11, 2022
PROJECT No.:	170295301	WEATHER:	Cloudy/Rain, 60 to 67 °F Wind: ESE @ 1-4 mph
PROJECT:	Gowanus Canal Northside	TIME:	06:15 – 17:45
LOCATION:	Brooklyn, New York	BCP SITE ID:	C224080
EQUIPMENT:		PRESENT AT SITE:	
Komatsu PC 490 Excavator	Junttan PM20/25 Drill Rig	Langan: Audrey Seery, Elsa Boak (Environmental), Ashlene Bisram, Ahmed Mahmoud (Geotechnical)	
Komatsu PC 240 Excavator	JLG HC3 Boom Lift	Urban Atelier Group (UAG): Seth Anderson	
Komatsu PC 78 US Excavator		Kingdom Associates, Inc. (Kingdom): Marcin Hulewicz	
APE Model 23.2 Vibratory Hammer		Earth Construction Services (ECS): Donald Sidnauth, Oscar Sandoval	
Komatsu Wheel Loader			
Junttan PM20US Drill Rig			

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langان 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 (SP_COMP_08-10_0-85, SP_COMP_09-11_0-85, SB_COMP_01-03-04_0-85, and SB_COMP_02-05_0-85) and live-loaded historic fill from waste characterization grids WC01 and WC05 (WC01_COMP_0-5 and WC05_COMP_0-5) into 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 installed dewatering wells to a maximum depth of 20 feet below grade surface (bgs) for the dewatering system in the northern part of Society Brooklyn.
- Kingdom delivered an activated carbon tank for the dewatering system to the northern part of Society Brooklyn.
- Kingdom imported three truckloads of 2 ½-inch virgin stone. See material tracking section for details.
- Kingdom excavated an about 20-foot long by 15-foot wide area to about 4-feet bgs in the southern part of Society Brooklyn for the future cellar. Excavated material consisted of historic fill and C&D debris.
 - Excavated historic fill was screened for odor, staining, and organic vapors using a photoionization detector (PID). No impacts were observed.
 - Excavated C&D debris was live-loaded into permitted tri-axle trucks for off-site disposal.
 - Excavated historic fill was live-loaded into permitted tri-axle trucks for off-site disposal.
- Kingdom excavated an about 30-foot long by 8-foot wide area to about 4 feet bgs to install lagging for the support-of-excavation (SOE) system in the southern part of Society Brooklyn. Excavated material consisted of historic fill.
 - Excavated historic fill was screened for odor, staining, and organic vapors using a PID. No impacts were observed.

Cc:	J. Hayes, M. Burke, P. Farnham, E. Adkins, A. Nesci	By:	Audrey Seery Langان, D.P.C.
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- Kingdom temporarily stockpiled the excavated historic fill adjacent to the excavation before backfilling into the excavation of origin.
- Kingdom excavated an about 20-foot long by 3-foot wide area to about 2 feet bgs in the northeastern part of Society Brooklyn to install a component of the dewatering system. Excavated material consisted of historic fill.
 - Excavated historic fill was screened for odor, staining, and organic vapors using a PID. No impacts were observed.
 - Kingdom temporarily stockpiled the excavated historic fill adjacent to the excavation before backfilling into the excavation of origin.
- Kingdom relocated previously stockpiled non-hazardous manufactured gas plant (MGP)-impacted drilling spoils from the southern part of Sackett Place to the central part of Sackett Place. The stockpile was placed on top of and covered with polyethylene sheeting pending future off-site disposal.
- Kingdom relocated the 750-gallon underground storage tank (UST) from the southeastern part of Sackett Place to the southern part of Sackett Place. The UST was placed on top of and covered with polyethylene sheeting pending future off-site disposal.
- Kingdom installed foundation piles in the northern part of Sackett Place and in the southeastern part of Society Brooklyn.
 - The foundation piles were advanced to a maximum depth of about 89 feet bgs. Drilling spoils were screened for odor, staining, and organic vapors using a PID. MGP impacts, including a maximum PID reading of 9.9 ppm and mothball-like odors, were observed in one of the foundation piles.
 - The MGP-impacted drilling spoils were segregated and added to the existing stockpile in the northwestern part of Sackett Place on top of and covered with polyethylene sheeting pending future off-site disposal.
 - The non-MGP-impacted drilling spoils were added to existing stockpiles in the northwestern part of Sackett Place, or in the southeastern part of Society Brooklyn on top of and covered with polyethylene sheeting pending future off-site disposal.

Import and Export Tracking

- Kingdom exported 11 truckloads of non-hazardous drilling spoils (SP_COMP_08-10_0-85, SP_COMP_09-11_0-85, SB_COMP_01-03-04_0-85, and SB_COMP_02-05_0-85) and historic fill from waste characterization grids WC01 and WC05 (WC01_COMP_0-5 and WC05_COMP_0-5) to Bayshore Soil Management (BSM) in Keasbey, NJ.
- Kingdom exported 2 truckloads of C&D debris to Faztec Industries in Staten Island, NY.
- Kingdom imported 3 truckloads of 2.5-inch virgin quarry stone from the 87 19th Avenue site in Astoria, NY. The 2.5-inch stone was originally sourced from Braen Aggregates quarry in Franklin NJ and Stavola Oldwick quarry in Oldwick, NJ.

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Soil/Fill Export Summary			
Facility	Exported	Today	Total
Bayshore Soil Management Keasbey, NJ Non-Hazardous Soil/Fill	No. Loads	11	216
	Quantity (CY)	220	4,320
Bayshore Soil Management Keasbey, NJ Non-Hazardous MGP-Impacted Soil/Fill	No. Loads	0	42
	Quantity (CY)	0	840

Material Import Summary				
Facility	NYSDEC Approved Quantity (CY)	Imported	Today	Total
Stavola Construction Materials, Inc Bridgewater, NJ 2.5-inch Stone	1,000	No. Loads	0	6
		Quantity (CY)	0	120
87 19th Avenue Astoria, NY 2.5-inch Stone	2,000	No. Loads	3	7
		Quantity (CY)	60	170
Impact Environmental Jersey City, NJ 0.5-inch Crushed Stone	2,000	No. Loads	0	2
		Quantity (CY)	0	40

Sampling

- No samples were collected today.

Community Air Monitoring

- Langan conducted real-time air monitoring for volatile organic compounds (VOC) and particulate matter smaller than 10 microns in diameter (PM10) at the upwind and downwind perimeters of the work area during ground-intrusive work. VOC and PM10 concentrations did not exceed the action levels established by the community air monitoring plan (CAMP).
 - Due to Persistent rain, community air monitoring was not implemented after 15:15. No dust or odors were apparent on-site.

Anticipated Activities

- Kingdom will continue to install foundation piles at Society Brooklyn and Sackett Place.
- Kingdom will continue to install SOE at Society Brooklyn.
- Kingdom will continue to install the dewatering system at Society Brooklyn
- A Fire Department of New York (FDNY)-licensed tank contractor will clean and decommission the 750-gallon UST.

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Site Photographs:



Photo 1: Kingdom excavating in the southern part of Society Brooklyn to install lagging (facing southwest)



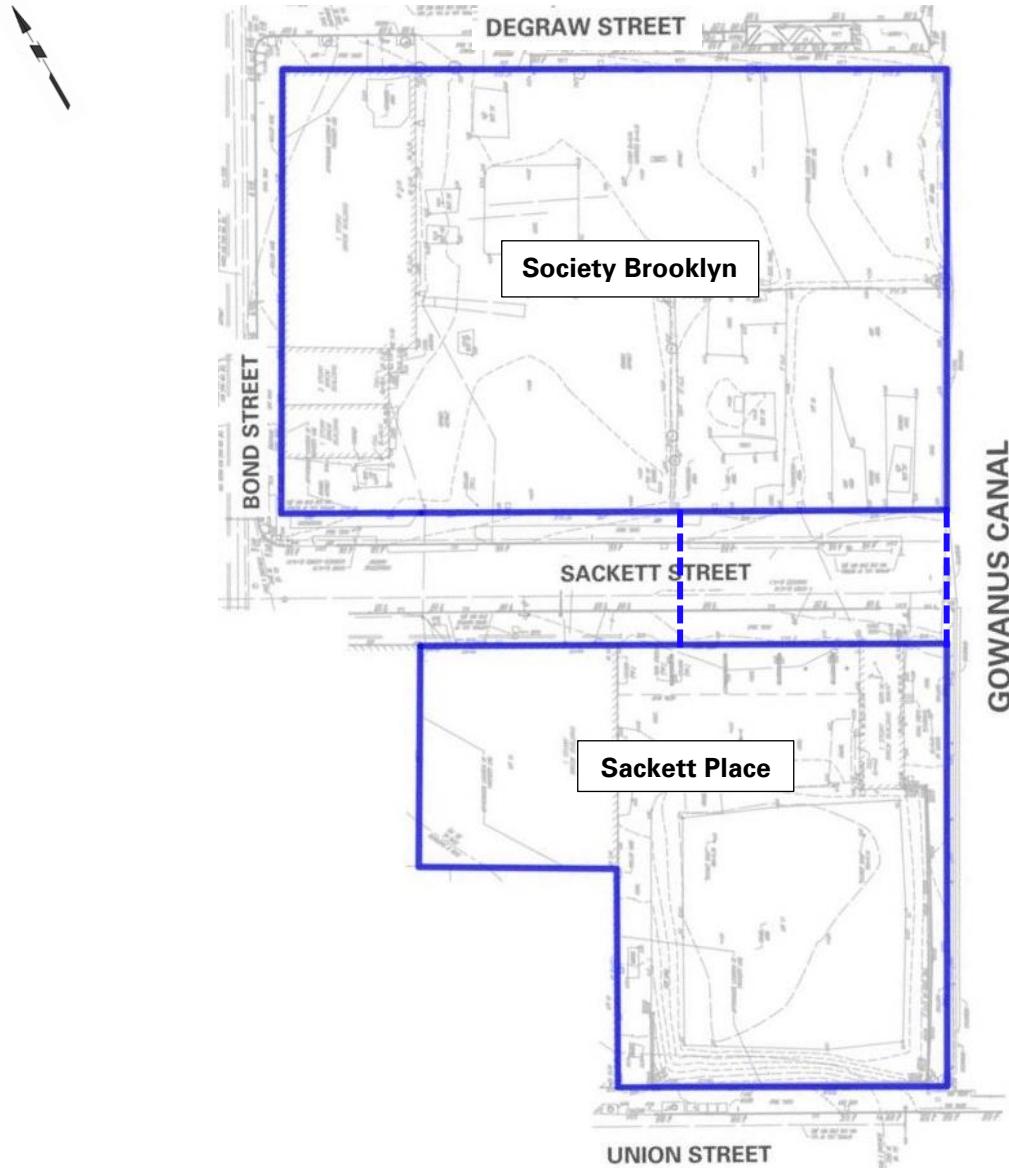
Photo 2: Kingdom installing foundation piles in the northern part of Sackett Place (facing northwest)

Cc: J. Hayes, M. Burke, P. Farnham, E. Adkins, A.
Nesci

By: Audrey Seery

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Site Map 1:



Legend

- Approximate BCP site boundary
- - - Approximate construction fence boundary

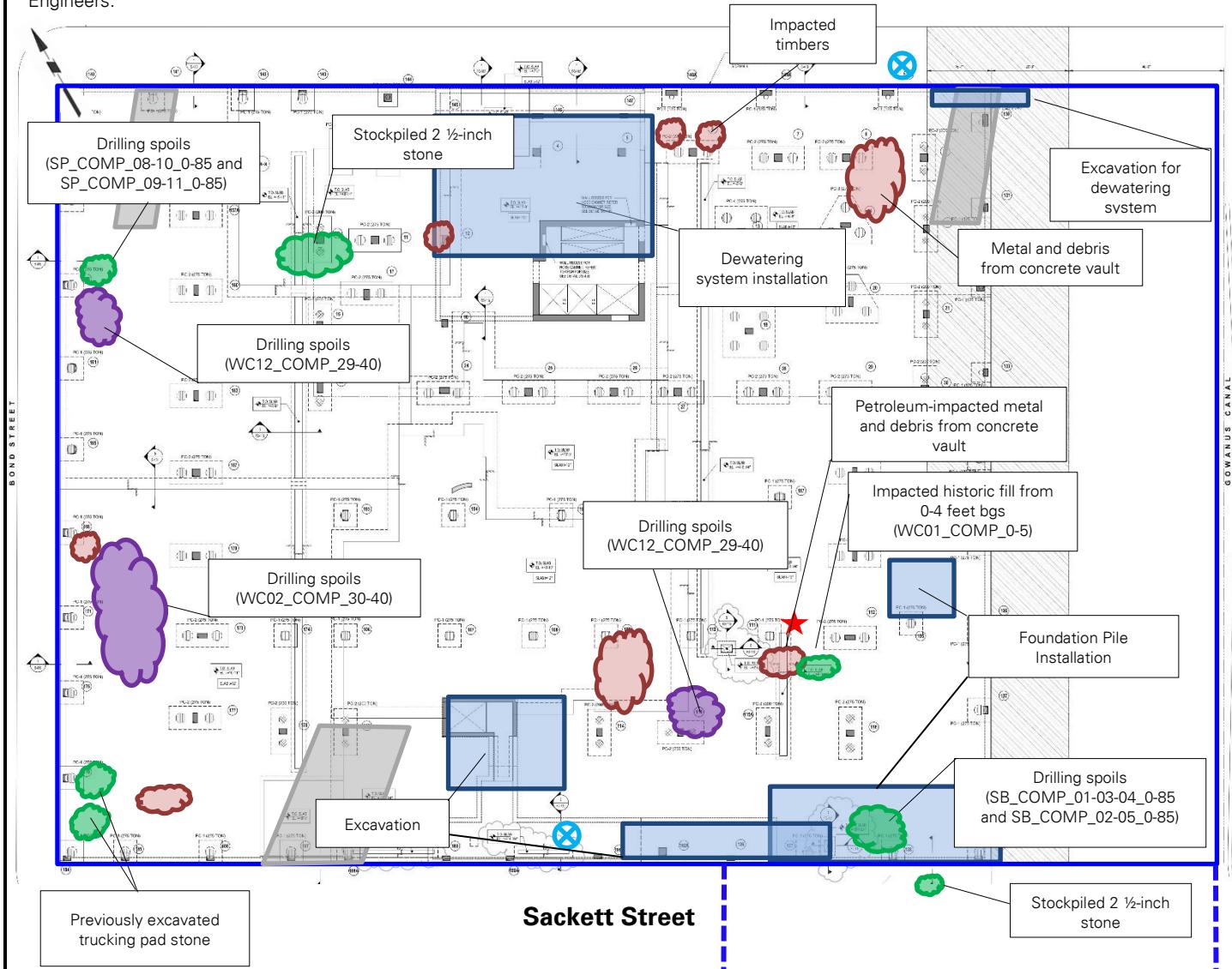
Notes

1. Base map adapted from 24 March 2022 RAWP, Figure 2 – Site Plan.
2. 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. Nesci	By:	Audrey Seery Langan, D.P.C.
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Site Map 2: Northern Work Area Map (Society Brooklyn)

Base map adapted from 1 April 2022 drawing FO-201.00, "Ground Floor Framing Plan" for Society Brooklyn, prepared by DeSimone Consulting Engineers.



Legend:

- | | | | |
|-------|--|---|---|
| — | Approximate site boundary | ● | Approximate soil/fill stockpile location |
| - - - | Approximate construction fence boundary | ● | Approximate MGP-impacted stockpile location |
| (X) | Upwind air monitoring station | ● | Approximate C&D debris stockpile location |
| (X) | Downwind air monitoring station | ★ | Approximate floor drain location |
| ■ | Approximate work area | ● | Approximate location of MGP-impacted pile drilled today |
| ■ | Approximate stabilized construction entrance | | |

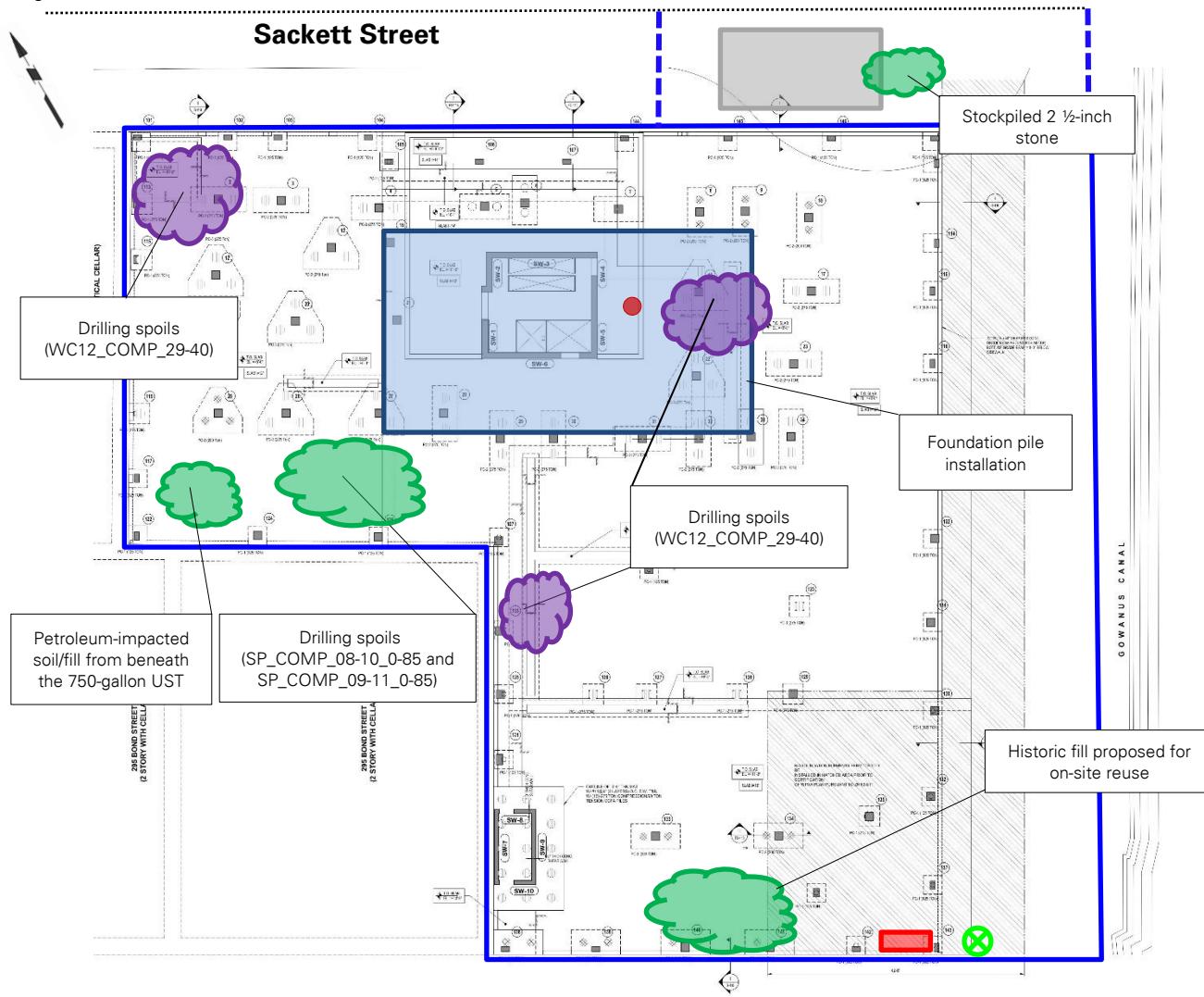
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Site Map 3: Southern Work Area Map (Sackett Place)

Base map adapted from 1 April 2022 drawing FO-201.00, "Ground Floor Framing Plan" for Sackett Place, prepared by DeSimone Consulting Engineers.



Legend:

- | | | | |
|---------|--|-------|---|
| — | Approximate site boundary | ● | Approximate soil/fill stockpile location |
| - - - | Approximate construction fence boundary | ■ | Approximate MGP-impacted stockpile location |
| ○ X | Upwind air monitoring station | ■ ■ | Approximate C&D debris stockpile location |
| ○ X | Downwind air monitoring station | ● | Approximate location of MGP-impacted pile drilled today |
| ■ ■ | Approximate work area | ■ ■ ■ | Approximate location of 750-gallon UST |
| ■ ■ ■ ■ | Approximate stabilized construction entrance | | |

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Langan, D.P.C.



DAILY AIR MONITORING REPORT

Gowanus Canal Northside

267 Bond Street, Brooklyn, New York

11/11/22

Project number: 170295301

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Rev. No. 0

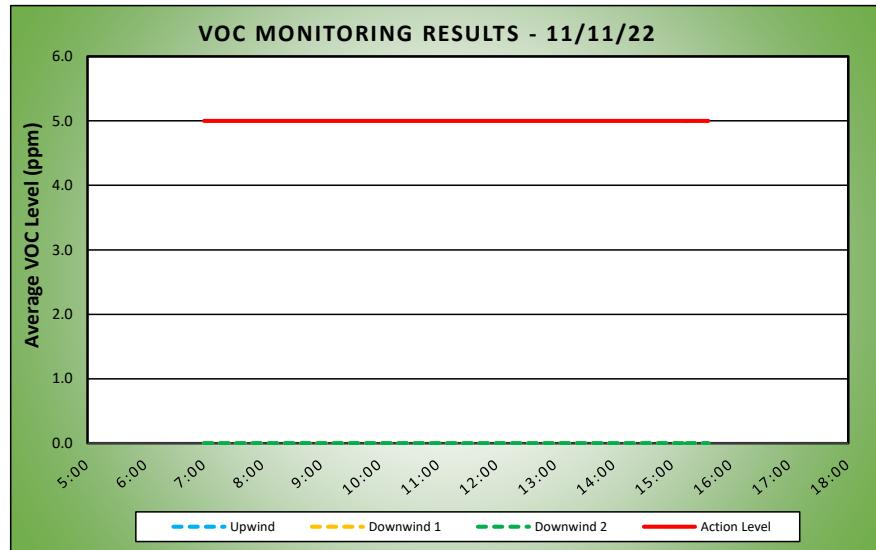
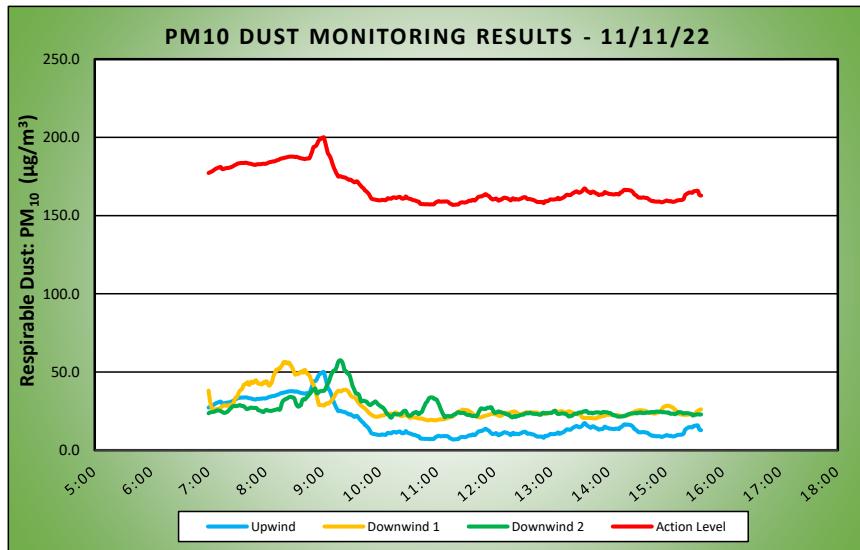
Submitted By:

Dust Action Level 150 µg/m³

TVOC Action Level 5 ppm

Weather Data Range for Work Day		Wind Direction	ESE	Relative Humidity (%)	0.0 - 0.0	Daily Rain (in)	0.12	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	60.0 - 67.0	Wind Speed (MPH)	0.6 - 3.7	Barometer (inHg)	0.00 - 0.00			

Station Location Area	Work	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Min Dust Concentration ($\mu\text{g}/\text{m}^3$)	Time of Maximum 15 Minute Avg Dust Reading	Daily Avg. VOC Concentration (ppm)	Max 15 Min VOC Concentration (ppm)	Time of Max VOC Reading
Upwind		18.1	50.0	9:01	0.0	0.0	7:00
Downwind 1		28.5	56.5	8:21	0.0	0.0	8:51
Downwind 2		26.9	57.5	9:18	0.0	0.0	7:00



Air Monitoring Notes:

Sampling Notes:

Weather Notes:

