LANGAN

SITE OBSERVATION REPORT

CLIENT:	Queens Development Group, LLC	**DATE:**	Monday, November 28, 2022
PROJECT No.:	170197632.300.101.0	**WEATHER:**	Sunny, 34-43°F
PROJECT:	Willets Point | OU-1 (Phase 1A)	**TIME:**	6:30 AM – 2:30 PM
LOCATION:	Queens, New York	**BCP SITE ID:**	C241146

EQUIPMENT:
Hand tools
KX040-4 Kubota Excavator
Kubota Excavator PC 490
Kubota Excavator PC 238
Hitachi PL5

PRESENT AT SITE:
PRESENT AT SITE:
Langan: Sophia Misiakiewicz
Triumph Construction: (General Contractor) Scott Delise, one assistant super, and 8-person crew
AECOM: Anthony Zaccoli and Chuck Bunyaviroch

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:
Langan documented the following activities in accordance with the May 11, 2021 NYSDEC-approved Remedial Action Work Plan (RAWP):

Site Activities

- Triumph excavated two about 6-foot-long by 7-foot-wide by 10-foot-deep areas into OU-1's composite cover system, consisting of imported stone and clean fill, and underlying non-hazardous fill beneath the composite cover system for preparation of pile load testing for installation of the 72" trunk water main piles. Excavation areas were located on the eastern side of former Willets Point Boulevard. Excavated material was screened for odors, staining and organic vapors using a photoionization detector (PID). Staining was observed. No odors or measurable PID readings were observed.
    - Excavated ¾" stone and clean fill were stockpiled together on top of polyethylene sheeting. Stockpiles were covered with polyethylene sheeting at the end of the workday.
    - Excavated non-native soil from below the demarcation barrier was stockpiled separately on top of polyethylene sheeting adjacent to excavation and covered at the end of the workday.
    - A 24" HDPE casing was installed to 10 feet below grade surface for preparation of the pile load tests.
    - The excavation was backfilled around the HDPE casing with previously stockpiled 3/4-inch stone from the OU-1 clean cap.

Sampling

- None.

Community Air Monitoring Plan Activities

- Langan performed community air monitoring at the perimeter of the site at two locations and included air monitoring for particulate matter for particulates less than 10 µm in diameter (PM10) and VOCs. Particulate and VOC concentrations did not exceed the action levels established in the site Community Air Monitoring Program (CAMP).
    - Intrusive work began at 9:00 am.
    - No fugitive dust or odors associated with ground-intrusive site activities were observed migrating off-site.
    - Refer to the Daily Air Monitoring Report attached to this Site Observation Report.

cc: Project Team	By:	Sophia Misiakiewicz
		Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

Material Tracking

- None.

Anticipated Activities

- Removal of the top part of the composite cover system in preparation for the pile load test and pile installation within the water main trench is anticipated to continue. Pile load testing anticipated to begin Monday 12/5/2022.

Photographs

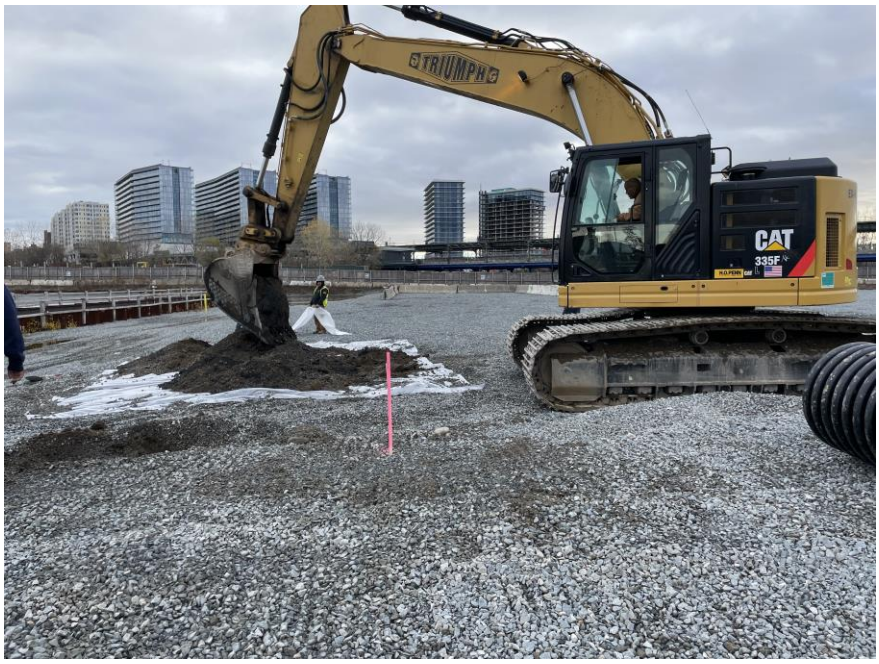


Photo 1: Triumph excavating and segregating clean fill and contaminated fill adjacent to excavation in the southern part of site (facing east)

Photo 2: Triumph backfilling excavated area with 3/4-inch stone and imported clean fill (facing southeast)

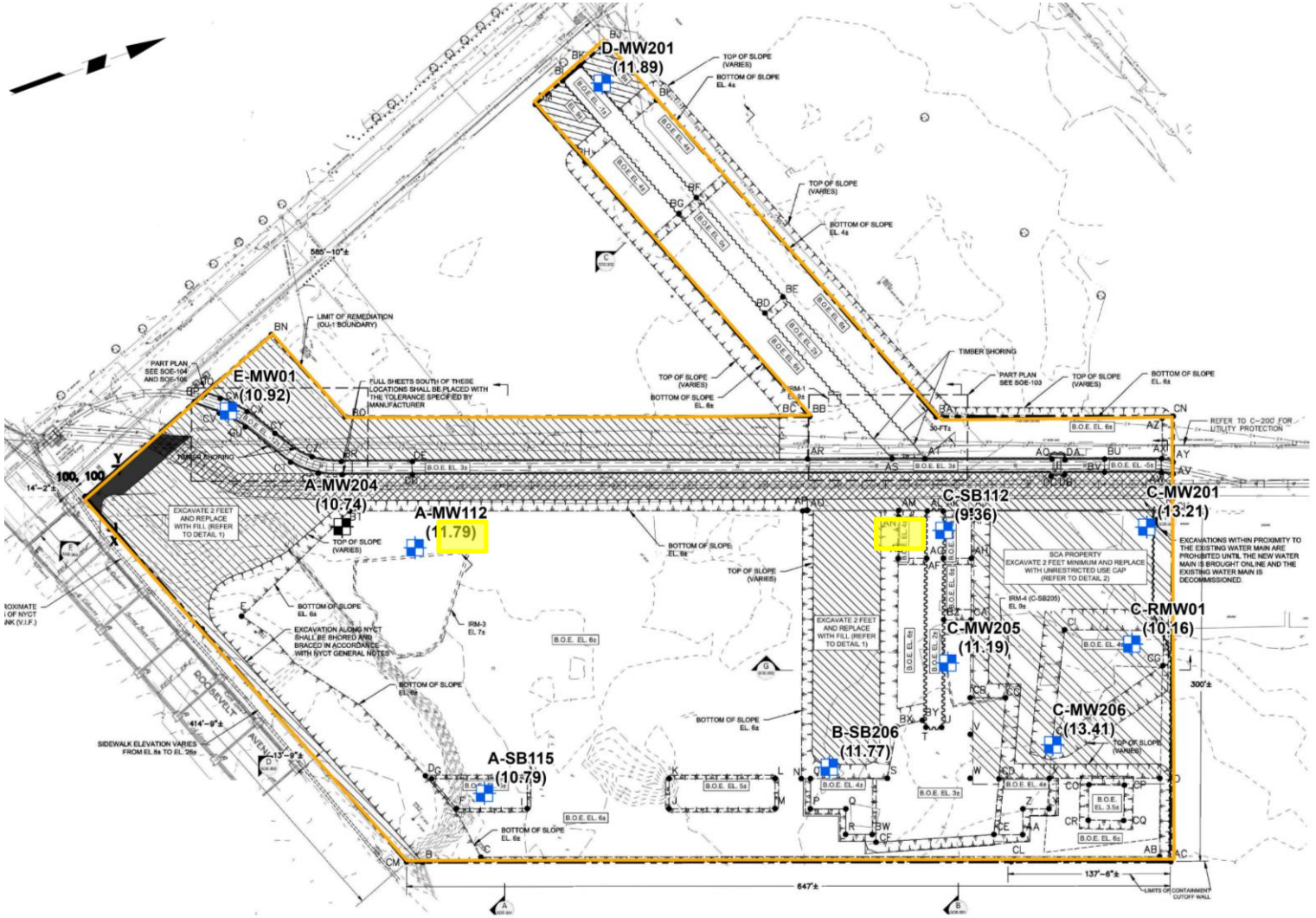
Figure 2 – Monitoring Well Location Map:

Notes:
1. Drawing background from June 24, 2022 Draft CCR Figure 6 "Monitoring Well Location Map" by Langan.
2. Drawing not to scale.

LEGEND:

Monitoring Well

Work Area



cc: Project Team	By:	Sophia Misiakiewicz
		Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

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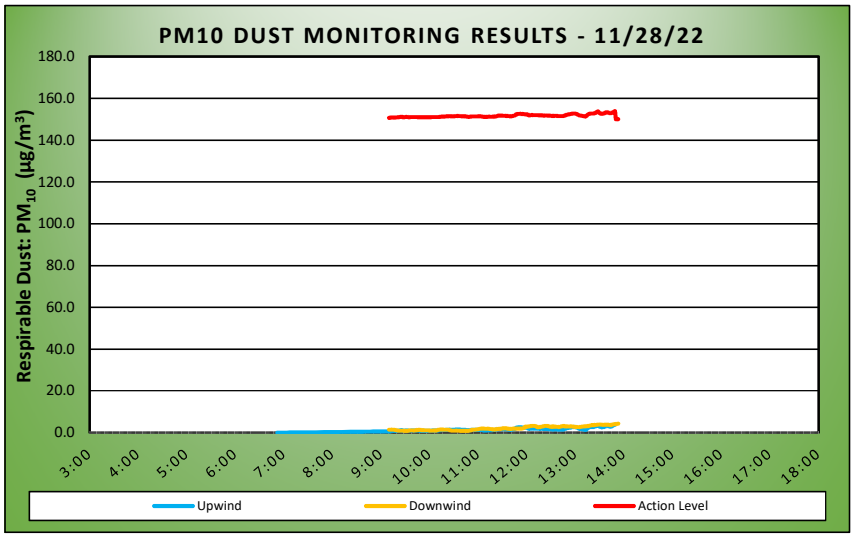
ENGINEERING & ENVIRONMENTAL SERVICES

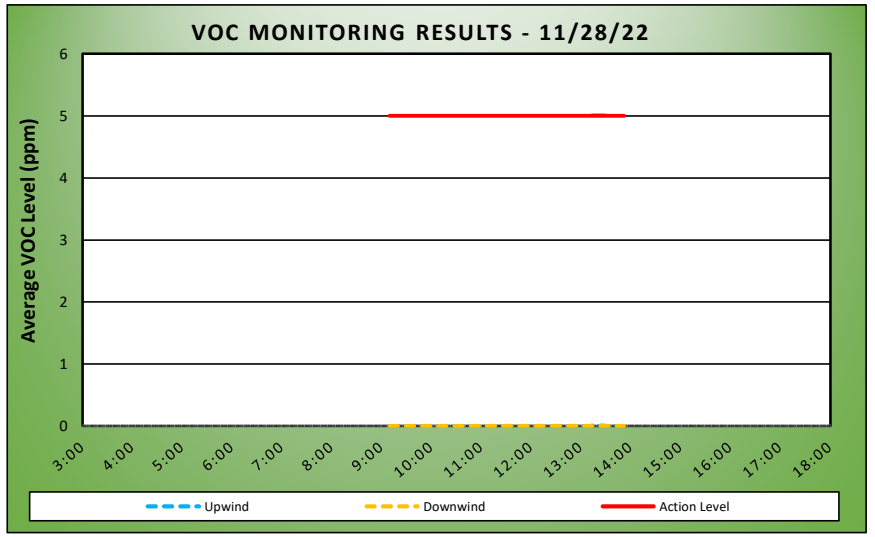
DAILY AIR MONITORING REPORT
Willets Point OU-1
Queens, New York

11/28/22	
Project number: 170197605	
Page 1 of 1	Rev. No. 0
Submitted By: Sophia Misiakiewicz	
Dust Action Level	150 µg/m^3
TVOC Action Level	5 ppm

Weather Data Range for Work Day		Wind Direction	NW	Relative Humidity (%)	53.0 - 80.0	Daily Rain (in)	0.02	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	50.0 - 54.0	Wind Speed (MPH)	4.0 - 6.7	Barometer (inHg)	29.50 - 29.80			

Station Location Work Area	Daily Avg. Dust Concentration (µg/m^3)	Max 15 Min Dust Concentration (µg/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	1.7	3.8	13:49	0.0	0.0	13:14
Downwind	2.1	4.3	13:53	0.0	0.0	9:10





Air Monitoring Notes:

Sampling Notes:

Weather Notes:

EMILCOTT
environmental, health & safety experts

LANGAN

SITE OBSERVATION REPORT

CLIENT:	Queens Development Group, LLC	**DATE:**	Tuesday, November 29, 2022
PROJECT No.:	170197632.300.101.0	**WEATHER:**	Sunny, 34-43°F
PROJECT:	Willets Point | OU-1 (Phase 1A)	**TIME:**	6:30 AM – 2:30 PM
LOCATION:	Queens, New York	**BCP SITE ID:**	C241146

EQUIPMENT:
Hand tools
KX040-4 Kubota Excavator
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PRESENT AT SITE:
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Langan: Sophia Misiakiewicz
Triumph Construction: (General Contractor) Scott Delise, one assistant super, and 8-person crew
AECOM: Anthony Zaccoli and Chuck Bunyaviroch

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:
Langan documented the following activities in accordance with the May 11, 2021 NYSDEC-approved Remedial Action Work Plan (RAWP):

Site Activities

- Triumph re-started the dewatering system and began dewatering within the water main trench.
- Triumph removed 3/4-inch stone from the water main trench in OU-1 and stockpiled it adjacent to the trench.
- Triumph excavated about 60-foot-long by 40-foot-wide by 1.5-foot-deep area of clean fill and 3/4-inch stone (site cap) in the southern part of site to support installation of construction entrance. Triumph placed geo-fabric down in the excavated area and backfilled with #5 stone previously imported and stockpiled on OU-2.
    - Excavated clean cap material was stockpiled on polyethylene sheeting next to the excavated area and covered with polyethylene at the end of the day.

Sampling

- None.

Community Air Monitoring Plan Activities

Community Air Monitoring Program (CAMP) was not deployed as site work did not penetrate the composite cover system. No fugitive dust or odors associated with ground-intrusive site activities were observed migrating off-site.

Material Tracking

- None.

Anticipated Activities

- Triumph will continue dewatering the water main trench in preparation for pile driving work.
- Triumph continue relocating the composite cover system in preparation for pile driving work.

cc: Project Team	By:	Sophia Misiakiewicz
		Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

Photographs

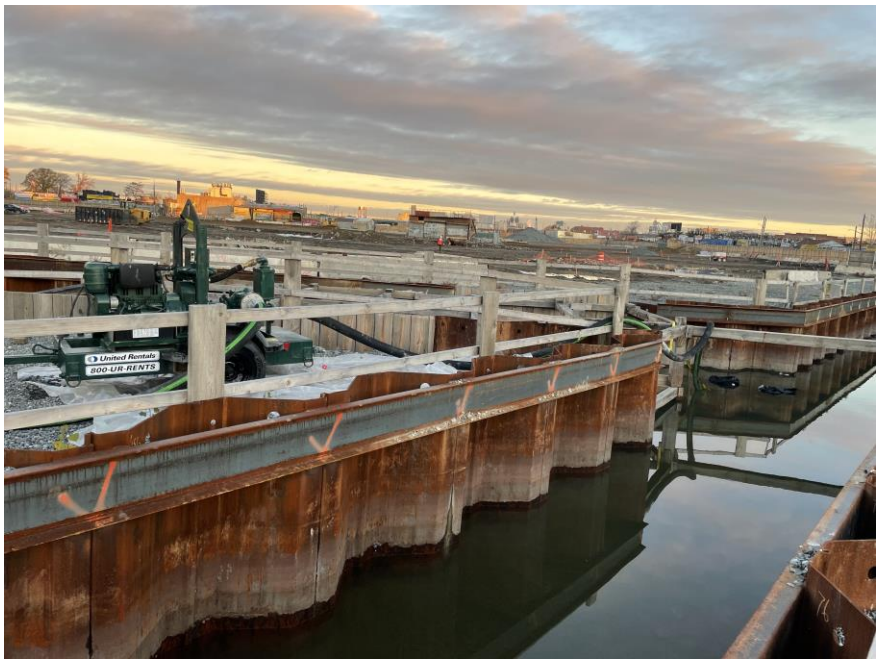


Photo 1: Triumph dewatering the water main trench (facing north)

Photo 2: View of placing geotextile fabric for construction entrance in the southwest part of the site (facing southwest)

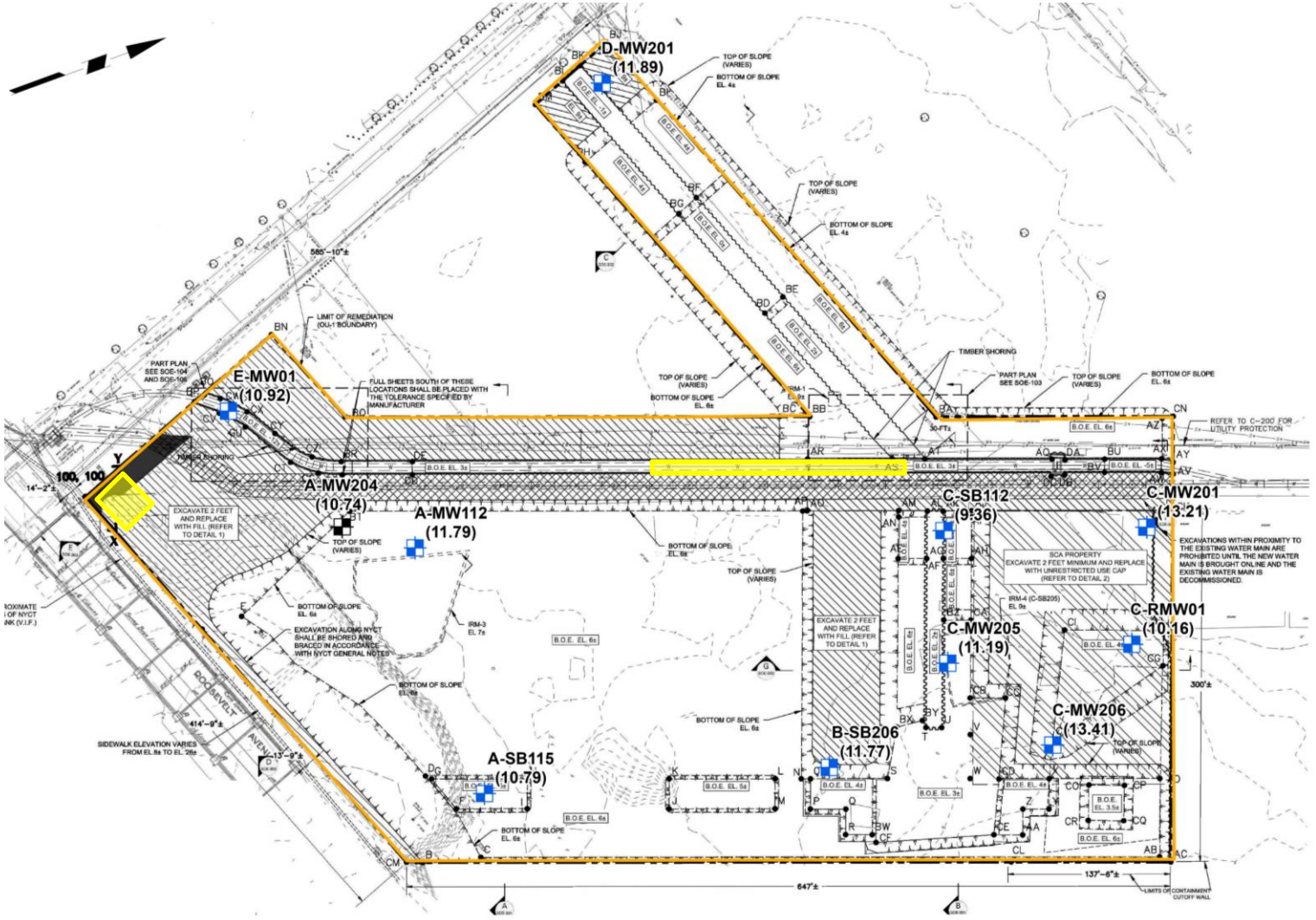
Figure 2 – Monitoring Well Location Map:

Notes:
1. Drawing background from June 24, 2022 Draft CCR Figure 6 "Monitoring Well Location Map" by Langan.
2. Drawing not to scale.

LEGEND:

Monitoring Well

Work Area



cc: Project Team	By:	Sophia Misiakiewicz
		Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

LANGAN

SITE OBSERVATION REPORT

CLIENT:	Queens Development Group, LLC	**DATE:**	Wednesday, November 30, 2022
PROJECT No.:	170197632.300.101.0	**WEATHER:**	Raining, 34-43°F
PROJECT:	Willets Point | OU-1 (Phase 1A)	**TIME:**	6:30 AM – 2:30 PM
LOCATION:	Queens, New York	**BCP SITE ID:**	C241146

EQUIPMENT:
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PRESENT AT SITE:
PRESENT AT SITE:
Langan: Sophia Misiakiewicz
Triumph Construction: (General Contractor) Scott Delise, one assistant super, and 17-person crew
AECOM: Anthony Zaccoli and Chuck Bunyaviroch

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:
Langan documented the following activities in accordance with the May 11, 2021 NYSDEC-approved Remedial Action Work Plan (RAWP):

Site Activities

- Triumph used the Keller dewatering system to dewater the northern part of the 72'' truck water main.
- Triumph excavated about 150-foot-long by 70-foot-wide by 6-foot-deep area into OU-1's composite cover system within the water main trench, consisting of imported stone and clean fill, and non-hazardous historic fill located in the northern section of the 72" trunk water main. Excavated material was screened for odors, staining and organic vapors using a photoionization detector (PID). Petroleum-like staining and odors were observed in historic fill. No odors or measurable PID readings were observed.
    - Excavated ¾" stone and clean fill were stockpiled together on top of polyethylene sheeting in the eastern part of site and was covered with polyethylene sheeting at the end of the workday.
    - Excavated non-hazardous historic fill was stockpiled on top of polyethylene sheeting the eastern part of site and covered with polyethylene sheeting at the end of the workday.

Sampling

- None.

Community Air Monitoring Plan Activities

Community Air Monitoring Program (CAMP) was not deployed due to sustained rain during intrusive activities.

Material Tracking

- None.

Anticipated Activities

- Triumph will continue excavation of the water main.

cc: Project Team	By:	Sophia Misiakiewicz
		Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

Photographs

Photo 1: View of polyethene sheeting placed in the eastern part of site (facing east)

Photo 2: Triumph excavating 3/4-inch stone in the northern part of the 72'' truck water main (facing northwest)

Figure 2 – Monitoring Well Location Map:

Notes:
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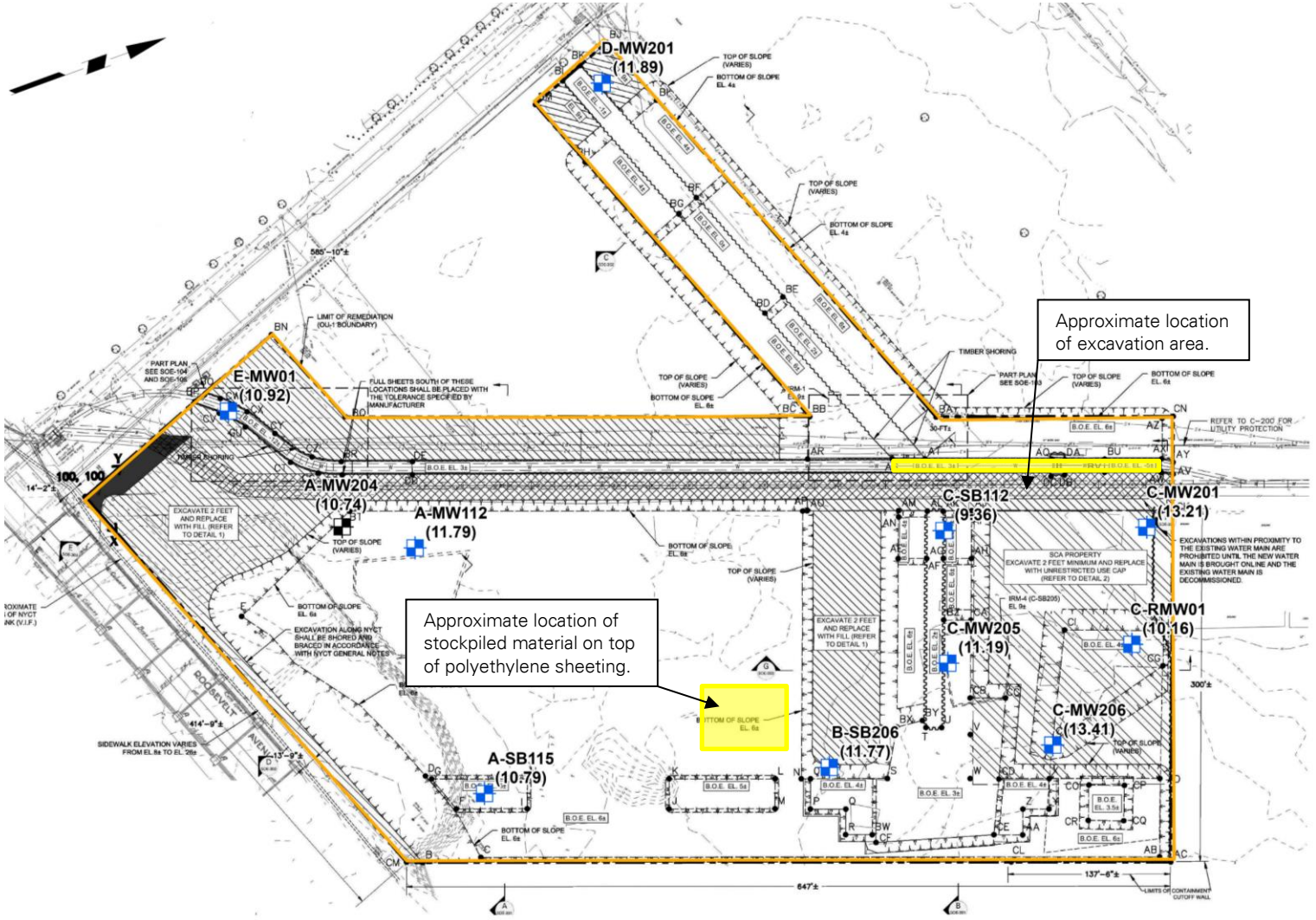
2. Drawing not to scale.

LEGEND:

Monitoring Well

Work Area



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