Langan conducted dust and volatile organic compound (VOC) monitoring during drilling and excavation activity for the foundation development between 8:00 am and 4:30 pm during the week of September 24, 2018. Due to inclement weather, air monitoring was not conducted on Tuesday, September 25th and from 11:45 am to 2:45 pm on Friday, September 28th. DustTrak™ II Model 8530 dust monitors and MiniRae 3000 Photoionization Detectors (PIDs) installed in tripod-mounted enclosures were placed at upwind and downwind locations near the boundary of the work area within the perimeter construction fence. The station locations were based on wind conditions observed at the start of the work day. The dust monitors collected continuous ambient particulate (PM10 range) readings and the PIDs collected continuous VOC readings, which were uploaded to a data cloud using a telemetry system and made accessible via internet.

The alarm thresholds were set below the action levels as a conservative measure to allow time for evaluation of site conditions and corrective action, if necessary. The system was calibrated to issue an alarm via text message and e-mail to Langan personnel if the particulate concentration exceeded 100 micrograms per cubic meter (µg/m³) or if total VOC levels exceeded 3 parts per million (ppm). The 15-minute, time-weighted average (TWA) action levels specified in the NYSDEC Generic CAMP are 150 µg/m³ above the upwind concentration for particulates and 5 ppm above the background concentration measured prior to the start of work each day for VOCs.

Particulate concentrations did not exceed the lower-level threshold or NYSDEC action levels for this monitoring period. VOC concentrations exceeded the NYSDEC action level of 5 ppm between 10:41 and 10:55 am on Thursday, September 27th. Elevated VOC readings were the result of an anomalously high one-minute reading (633 ppm) attributed to a concrete truck’s exhaust in close proximity to the downwind monitoring station. Upon notification of the exceedance, the Contractor paused work and relocated the truck. Subsequent one- and fifteen-minutes declined below action levels. Dust or odors were not observed migrating off-site.

*The data for 181 Mercer Street dust monitoring is not in an accessible format according to the accessibility guidelines provided by the federal Department of Education for people who use*
assistive technologies. However, moving forward, all data for dust monitoring will be made available upon request. Please contact community.engagement@nyu.edu for more information.