To: Kenny Lee (New York University)
From: Stuart Knoop (Langan)
Info: Michael Burke (Langan)
Date: March 6, 2017
Re: Air Monitoring
February 27 – March 3, 2017
181 Mercer Street
New York, New York
Langan Project No.: 1700001401

Langan conducted dust and volatile organic compound (VOC) monitoring during excavation for the ConEd utility line relocation between 8:00 am and 4:30 pm from February 27 through March 3, 2017. Heavy rain precluded air monitoring from about 10:30 am through the end of the work day on March 1. 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 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) particulate and VOC action levels specified in the NYSDEC Generic CAMP are respectively 150 µg/m³ and 5 ppm above the background concentration measured prior to the start of work each day. The alarm thresholds were set at a concentration below the action level as a conservative measure to allow time for evaluation of site conditions and corrective action, if necessary.

Measured dust and VOC concentrations did not exceed the action levels during the monitoring period.