NYC 9/11 Public Portal Document

U.S. Environmental Protection Agency (*www.epa.gov*)
Air / Bulk / Wipe/ Water Sampling Situation Report
Monday, October 22, 2001 (2:00 PM)

Ambient Air Sampling Locations

- NYC / ER (Oct 19) - Particulate Monitoring ($PM_{2.5}$)
  - Pace University (Site 1) - 24-hr average concentration for this period was ***26.44 ug/m^3***.
  - Manhattan Boro Community College (Site 2) - 24-hour average concentration for this period was ***18.37 ug/m^3***.
  - Coast Guard Building - Battery Park (Site 3) - 24-hour average concentrations for this period was ***15.43 ug/m^3***.
  - All readings below the National Ambient Air Quality Standard for $PM_{2.5}$ (65 ug/m^3).
- NYC / ER (Oct 20) - Particulate Monitoring ($PM_{2.5}$)
  - Pace University (Site 1) - 24-hr average concentration for this period was ***27.77 ug/m^3***.
  - Manhattan Boro Community College (Site 2) - 24-hour average concentration for this period was ***24.82 ug/m^3***.
  - Coast Guard Building - Battery Park (Site 3) - 24-hour average concentrations for this period was ***20.22 ug/m^3***.
  - All readings below the National Ambient Air Quality Standard for $PM_{2.5}$ (65 ug/m^3).
- NYC / ER (Oct 20) - Particulate Monitoring (Dataram)
  - Particulate levels noted at three locations (Stations L, N, R) were below the OSHA TWA.
  - Instruments operated approximately 6 hours.
  - Station L values ranged from 59.1 to 124.2 ug/m3 with an average of 110.7 ug/m3.
  - Station N values ranged from 0 to 139.5 ug/m3 with an average of 116.9 ug/m3.
  - Station R values ranged from 58.2 to 144.7 ug/m3 with an average of 121.6 ug/m3.
- NYC / ER (Oct 21) - Particulate Monitoring (Dataram)
  - Particulate levels noted at three locations (Stations L, N, R) were below the OSHA TWA.
  - Instruments operated approximately 3½ hours.
  - Station L values ranged from 58.2 to 98.5 ug/m3 with an average of 83.8 ug/m3.
  - Station N values ranged from 0 to 101.1 ug/m3 with an average of 86.1 ug/m3.
  - Station R values ranged from 51.2 to 79.3 ug/m3 with an average of 67.7 ug/m3.
- NYC / ER (Oct 19) - Volatile organics (TAGA)
  - Benzene exceeded OSHA TWA PEL (1 ppm) at one location on the debris pile in the plume at ground level.
- NYC / ER (Oct 20) - Volatile organics (TAGA)
  - Benzene exceeded OSHA TWA PEL (1 ppm) at one location on the debris pile in the plume at ground level.
- NYC / ER (Oct 21) - Volatile organics (TAGA)
  - Benzene exceeded OSHA TWA PEL (1 ppm) at one location on the debris pile in the plume at ground level.

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Bulk/Dust Samples

- NYC / ER (Oct 10) - Semi-volatile organic compounds (base neutral acid extractable)
  - 2 dust samples obtained from rooftops in the vicinity of the WTC (22 Cortlandt, 7th fl. and 600 Gateway Plaza, 34th fl.) revealed elevated levels of polyaromatic hydrocarbons (PAHs).
  - Both samples were above the EPA Removal Action guidance levels (based on a 30-year exposure) represented as Toxic Equivalency Factors (TEFs) for benzo(a)pyrene.
  - Both samples were below the adjusted EPA Removal Action guidance levels (based on a 1-year exposure) represented as Toxic Equivalency Factors (TEFs) for benzo(a)pyrene.
  - Assuming the roofs have not been cleaned, limited potential exists for exposure due to location.
  - Depending on the roofing materials used, the location (roof) may have contributed somewhat to the sample results.
  - Dust samples previously collected on Sep 16 from street-level locations had significantly lower PAH levels.

Direct Reading Instruments

- NYC / ER (Oct 19)
  - Nothing of significance noted.
- NYC / ER (Oct 20)
  - Nothing of significance noted.
- NYC / ER (Oct 21)
  - Several readings noted above the carbon monoxide NAAQS (8 hr. average) of 9 ppm, but below the NAAQS (1 hr. average) of 35 ppm and the OSHA PEL of 50 ppm.

Water

- NYC / ER (Oct 5) - Total Petroleum Hydrocarbon Fingerprint/PCBs
  - 1 water sample collected from the basement of 140 West St.
  - The sample appeared to be indicative of a highly weathered fuel oil, most likely #4 fuel oil.
  - PCBs were not detected in the sample.

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