NYC 9/11 Public Portal Document

U.S. Environmental Protection Agency (*www.epa.gov*)
Sampling Situation Report
Monday, December 3, 2001

Fixed Ambient Air Sampling Locations (Asbestos)

- NYC / ER (Nov 26, 1200 - 2359 hrs)
  - All 21 samples analyzed were below the TEM AHERA standard.
  - 1 sample (Location H - duplicate) was not collected due to equipment malfunction.
- NYC / ER (Nov 27, 0001 - 1200 hrs)
  - All 21 samples analyzed were below the TEM AHERA standard.
  - 1 sample (Location T) was not collected due to equipment malfunction.
- NYC / ER (Nov 28, 1200 - 2359 hrs)
  - All 20 samples analyzed were below the TEM AHERA standard.
  - 2 samples (Locations K and E) were not collected due to equipment malfunction.
- NYC / ER (Nov 29, 0001 - 1200 hrs)
  - All 21 samples analyzed were below the TEM AHERA standard.
  - 1 sample (Location E) was not collected due to equipment malfunction.

Landfill Ambient Air Sampling Locations

- Fresh Kills (Nov 29, 1719 - Nov 30, 0717) - Asbestos
  - All 19 samples analyzed were below the TEM AHERA standard.
- Fresh Kills (Nov 30, 0700 - 1858) - Asbestos
  - All 19 samples analyzed were below the TEM AHERA standard.
  - Note: Low sample volume recorded.
- Fresh Kills (Nov 30, 1717 - Dec 1, 0839) - Asbestos
  - All 18 samples analyzed were below the TEM AHERA standard.
  - 1 sample (Location "Perimeter" #8) was not collected due to equipment malfunction.
  - Note: Low sample volume recorded.
- Fresh Kills (Dec 1) - Particulate Monitoring (Dataram)

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- Nothing of significance reported based on daily average concentrations.
- Measurements not taken on Nov 29 and 30 due to weather conditions.

- Fresh Kills (Dec 2) - Particulate Monitoring (Dataram)

  - Nothing of significance reported at four stations based on daily average concentrations.

Ambient Air Sampling Locations

- NYC / ER (Sep 22 - 25) - Volatile Organics (EPA-ORD)

  - 7 grab samples collected at four locations (A, C, K, 290 Broadway).
  - Locations A,C, and K correspond to the fixed ambient air sampling stations for asbestos.
  - 290 Broadway location is a station situated at the 16th floor.
  - 3 of 7 samples (Location A - Sep 22, Location A - Sep 25, Location C - Sep 23) collected during this period were above the EPA Removal Action guidelines (based on a 30-year exposure) for benzene.
  - 2 of 7 samples (Location A - Sep 25, Location C - Sep 23) collected during this period were above the non-cancer screening level for benzene.
  - 3 of 7 samples (Location A - Sep 22, Location A - Sep 25, Location C - Sep 23) collected during this period were above the EPA Removal Action guidelines (based on a 30-year exposure) for 1,3-butadiene.
  - No levels exceeded EPA Removal Action guidelines adjusted for a 1-year exposure.

- NYC / ER (Nov 26) - Asbestos Monitoring (Particulate Monitoring Stations)

  - Monitoring sites include:
    - Park Row (Site 1)
    - Manhattan Boro Community College (Site 2)
    - Coast Guard Building: Battery Park (Site 3)
    - Public School 154: 333 East 135th St, Bronx (Site 5)
    - Intermediate School 143: 511 West 182nd St., Manhattan (Site 6)
    - Public School 274: 800 Bushwick Ave., Brooklyn (Site 7)
    - Public School 44: 80 Maple Parkway, Staten Island (Site 8)
    - Public School 199: 3290 - 48th Ave., Queens (Site 9)
  - During this period a total of 8 samples were collected from these monitoring sites.
  - All of the samples were below the TEM AHERA standard.
  - Note: Low sample volume recorded.

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- NYC / ER (Nov 28) - Particulate Monitoring (TEOM $PM_{2.5}$)
  - Park Row (Site 1) - 24-hr average concentration for this period was ***19.40 ug/m³***.
  - Manhattan Boro Community College (Site 2) - 24-hour average concentration for this period was ***20.35 ug/m³***.
  - Coast Guard Building - Battery Park (Site 3) - 24-hour average concentrations for this period was ***20.47 ug/m³***.
  - Wall Street - No data reported.
  - All readings below the National Ambient Air Quality Standard for $PM_{2.5}$ (65 ug/m³).
- NYC / ER (Nov 29) - Particulate Monitoring (TEOM $PM_{2.5}$)
  - Park Row (Site 1) - 24-hr average concentration for this period was ***18.29 ug/m³***.
  - Manhattan Boro Community College (Site 2) - 24-hour average concentration for this period was ***16.25 ug/m³***.
  - Coast Guard Building - Battery Park (Site 3) - 24-hour average concentrations for this period was ***16.26 ug/m³***.
  - Wall Street - 24-hour average concentrations for this period was ***20.18 ug/m³***.
  - All readings below the National Ambient Air Quality Standard for $PM_{2.5}$ (65 ug/m³).
- NYC / ER (Nov 30) - Particulate Monitoring (TEOM $PM_{2.5}$)
  - Park Row (Site 1) - 24-hr average concentration for this period was ***20.16 ug/m³***.
  - Manhattan Boro Community College (Site 2) - 24-hour average concentration for this period was ***23.48 ug/m³***.
  - Coast Guard Building - Battery Park (Site 3) - 24-hour average concentrations for this period was ***18.80 ug/m³***.
  - Wall Street - 24-hour average concentrations for this period was ***19.01 ug/m³***.
  - All readings below the National Ambient Air Quality Standard for $PM_{2.5}$ (65 ug/m³).
- NYC / ER (Nov 28) - Particulate Monitoring (TEOM PM_{10})
  - Wall Street - 24-hour average concentrations for this period was ***39.81 ug/m³***.
  - All readings below the National Ambient Air Quality Standard for PM_{10} (150 ug/m³).
- NYC / ER (Nov 29) - Particulate Monitoring (TEOM PM_{10})
  - Wall Street - 24-hour average concentrations for this period was ***36.46 ug/m³***.
  - All readings below the National Ambient Air Quality Standard for PM_{10} (150 ug/m³).
- NYC / ER (Nov 30) - Particulate Monitoring (TEOM PM_{10})
  - Wall Street - 24-hour average concentrations for this period was ***31.02 ug/m³***.
  - All readings below the National Ambient Air Quality Standard for PM_{10} (150 ug/m³).

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- NYC / ER (Nov 30) - Particulate Monitoring (Dataram)
  - Particulate levels noted at three locations (Stations L, N, R) were below the OSHA TWA.
  - Instruments operated approximately 8 hours
  - Station L values ranged from 39.3 to 318.5 ug/m^3 with an average of 80.0 ug/m^3.
  - Station N values ranged from 40.8 to 357.2 ug/m^3 with an average of 76.7 ug/m^3.
  - Station R values ranged from 52.0 to 255.3 ug/m^3 with an average of 81.3 ug/m^3.
- NYC / ER (Dec 1) - Particulate Monitoring (Dataram)
  - Particulate levels noted at three locations (Stations L, N, R) were below the OSHA TWA.
  - Instruments operated approximately 8 hours
  - Station L values ranged from 53.8 to 243.7 ug/m^3 with an average of 90.5 ug/m^3.
  - Station N values ranged from 0.5 to 99.3 ug/m^3 with an average of 30.8 ug/m^3.
  - Station R values ranged from 1.1 to 87.5 ug/m^3 with an average of 31.4 ug/m^3.
- NYC / ER (Nov 30) - Volatile Organics (Mobile Laboratory)
  - Benzene exceeded OSHA TWA PEL (1 ppm) at two locations (North Tower and South Tower) on the debris pile in the plume at ground level.
  - Both of the other samples (Wash Tent and Austin Tobin Plaza) did not note any benzene above the detection limit (20 ppbv).
- NYC / ER (Dec 1) - Volatile Organics (Mobile Laboratory)
  - Benzene exceeded OSHA TWA PEL (1 ppm) at one location (North Tower) on the debris pile in the plume at ground level.
  - Both of the other samples (Wash Tent and Austin Tobin Plaza) did not note any benzene above the detection limit (20 ppbv).

<u>Direct Reading Instruments</u>

- NYC / ER (Nov 30)
  - Nothing of significance reported.
- NYC / ER (Dec 1)
  - Nothing of significance reported.

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