NYC 9/11 Public Portal Document

Centers for Disease Control and Prevention
National Institute for Occupational Safety and Health

Interim Bulk and Air Sampling Report
Monday, September 24, 2001

Investigators from the National Institute for Occupational Safety and Health (NIOSH) collected bulk and air samples in areas immediately adjacent to the debris pile and on personnel actively involved in rescue efforts on or in the vicinity of the debris pile to characterize potential and actual occupational exposures. Below are the interim sampling results for Monday, September 24, 2001.

Bulk Samples

Metals

- 1 bulk sample of paint was collected from the steel superstructure of the WTC
  - Calcium, chromium, iron, and zinc were found in concentrations greater than 10 mg/G

Air Samples

Carbon Monoxide

- 5 real-time personal breathing zone samples were collected for carbon monoxide
  - Most 8-hour time-weighted average concentrations were below 25 ppm (a torch cutter had an 8-hour time-weighted average concentration of 45 ppm)
  - A single peak of 1170 ppm was observed on a steelworker on the debris pile

Metals

- 2 personal and 6 area air samples were collected for metals
  - Nothing of concern was found regarding metal analysis

Polynuclear Aromatic Hydrocarbons (PAHs)

- 1 personal and 1 area air sample were collected for PAHs
  - Trace amounts of 15 different PAHs were identified

Respirable Dust

- 2 personal air samples were collected for respirable dust
  - Personal sample 8-hour time-weighted average concentrations were below 0.09 mg/m^3

K.M. Wallingford 10/11/01

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