



600 West Cummings Park, Suite
Woburn, Massachusetts 01801-1
www.atc-enviro
781.932.
Fax 781.932

July 1, 2002

Mr. Bernard P. Orlan
Director, Environmental Health & Safety
New York City Board of Education
28-11 Queens Plaza North
Long Island City, NY 11101-4008

**Re: Wipe Samples for Dioxin
High School of Economics and Finance (M833)
ATC Project No. 15-19125-0291**

Dear Mr. Orlan:

ATC Associates Inc. (ATC) is pleased to provide this report of the results of the wipe samples for polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs) collected on May 18, 2002, at the referenced location. The New York City Board of Education (BOE) requested these samples to evaluate possible contamination in the school building.

SCOPE OF WORK

Wagdi Abdelshahid, Industrial Hygienist of ATC's New York City office, collected the samples using gauze pads and hexane as a solvent. The pads and solvent were provided and samples were analyzed by Pace Analytical Services, Inc. (Pace) of Minneapolis, MN, a laboratory experienced in dioxin analysis. The analysis was performed by modified EPA Method 8290 using combined capillary column gas chromatography/high resolution mass spectrometry.

The sampling was performed consistent with generally accepted industrial hygiene practices. There were inherent limitations created by constraints of time, operational and work practice variability, variations in contaminant concentrations, and sampling and analytical accuracy. The results of the sampling represent conditions found on the dates the samples were collected.

WIPE SAMPLING RESULTS

ATC submitted three (3) wipe samples for PCDDs/PCDFs to Pace for analysis. A copy of the laboratory report is provided in the Attachment. Samples were taken from surfaces throughout the building. The area of each sample was one square meter (1 m²).

Each sample was analyzed for sixteen (16) PCDD/PCDF isomers. The results for each isomer were then converted to 2, 3, 7, 8-tetrachloro-dibenzo-p-dioxin (2, 3, 7, 8-TCDD) equivalents by multiplying by an established equivalency factor. This provides a single value (in nanograms) for the analytical results for each sample. The sample locations and concentrations are shown in the table.

Mr. Bernard P. Orlan
Wipe Samples for Dioxins
H. S. of Economics & Finance (M833)

July 1, 2002

Page 2

ATC Project No. 15-19125-0291

DIOXIN WIPE SAMPLE RESULTS
(2, 3, 7, 8 TCDD EQUIVALENTS) - Nanograms per square meter (ng/m²)

Main Lobby/DX1	0.00019
5 th Floor Hall by Stair B/DX2	0.000022
9 th Floor by Stair B/DX3	0.00020

The New York State Department of Health (NYSDOH) established guidelines for dioxin for the re-occupancy of the Binghamton State Office Building following a PCB fire. The NYSDOH guideline for dioxin on surfaces is 25 ng/m².

The concentrations on indoor surfaces ranged from 0.000022 ng/m² to 0.00020 ng/m². The levels found in these samples are *below* the NYSDOH guideline of 25 ng/m².

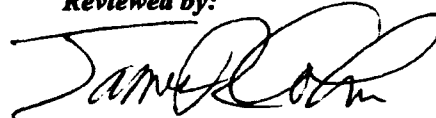
It is not possible to determine when the 2, 3, 7, 8 - TCDD equivalents detected in these samples were deposited. Dioxin samples were not collected from this school prior to January 14, 2002.

It is our pleasure to provide these indoor environmental services to the NYC Board of Education. If you have any questions about this report, please call (212) 353-8280, extension 212.

Sincerely,
ATC ASSOCIATES INC.


Yiannis Efstathiou
Senior project Manager

Reviewed by:


James R. Cohn, CIH, CSP
Regional Manager
Industrial Hygiene Division

Attachment