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April 17 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 Dioxins
High School for Leadership and Public Service (M894)
ATC Project No 15 19125-0290

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 March 8 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

The samples were collected 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

Wagdi Abdelshahid Industrial Hygienist of ATC's New York City office collected the samples 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 analysis report is provided in the Attachment Samples were taken from areas in various parts of the building The sample area 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

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This provides a single value (in nanograms) for the analytical results for each sample. The sample locations and the results are shown in the table.

DIOXIN WIPE SAMPLE RESULTS
(2, 3, 7, 8 TCDD EQUIVALENTS)
March 8, 2002

LOCATION/SAMPLE NUMBER	DIOXIN CONCENTRATION (ng/m ²)
1 st Floor Main Lobby Floor /DX1	0 000055
5 th Floor Hall by Elevator Floor /DX2	0 000059
10 th Floor Hall by Elevator Floor /DX3	0 000062

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 nanograms per square meter (25 ng/m²)*.

The concentrations on indoor surfaces ranged from 0 000055 to 0 000062 nanograms per square meter (ng/m²). The levels found in all of 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 these locations prior to January 2, 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



James R. Cohn CIH CSP
Regional Manager
Industrial Hygiene Division

Attachment