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February 25, 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
Stuyvesant High School
345 Chambers Street
New York, New York
ATC Project No. 15-19125-0246**

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 January 30, 2002, at the referenced location. The New York City Board of Education (BOE) requested these samples to evaluate possible contamination in the school building per the recommendation of H. A. Bader, consultant to the parents association.

SCOPE OF WORK

Wagdi Abdelshahid, Industrial Hygienist of ATC's New York City office, collected the samples.

The samples were collected using gauze pads and hexane as a solvent. The solvent was 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 wipe samples for PCDDs/PCDFs (plus one blank) to Pace for analysis. Samples were taken from areas specified by the parents association consultant. The sample area for each sample was one square meter (1 m²). The areas sampled were:

- 1st floor main entrance wall;
- 2nd floor bridge entrance wall;
- Mixed air plenum - HVAC#2.

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SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

Mr. Bernard P. Orlan
Wipe Samples for Dioxins
Stuyvesant High School (Manhattan)

February 25, 2002
Page 2
ATC Project No. 15-19125-0246

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. Copies of the draft analysis reports are attached. The results of the samples are shown in the following table.

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

LOCATION	DIOXIN CONCENTRATION
1 ST Floor Lobby Main Entrance	0.000022
2 ND Floor Lobby Bridge Entrance	0.000039
HVAC #2 Mixed Air Plenum	0.00057
Field Blank	0.00

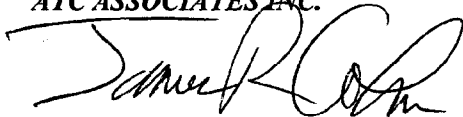
The New York State Department of Health (NYSDOH) established guidelines for dioxin for the re-occupancy of the Binghamton State Office Building following a PCB fire. The NYSDOH guideline for dioxin on surfaces is 25 nanograms per square meter (25 ng/m²). The New York State Department of Environmental Conservation (NYSDEC) has set 0.0006 parts per million (ppm) as the allowable concentration of dioxin in soil. The EPA has established a residential clean-up goal of 1 part per billion (ppb).

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 these locations prior to November 8, 2001, and therefore a background sample is not available for comparison purposes.

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

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CITY_21MC100_003429564

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008