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March 19, 2002

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

**Re: Air Sampling for Metals
Stuyvesant High School
ATC Project No. 15-19125-0246**

Dear Mr. Orlan:

ATC Associates, Inc. (ATC) is pleased to provide this letter report of air sampling for metals in airborne dust on February 27, 2002, at the referenced school. The New York City Board of Education (BOE) requested this sampling at the recommendation of H. A. Bader, a consultant retained by the parents association.

SCOPE OF WORK

ATC collected three (3) samples for metals at specified locations. Samples were collected for a minimum of seven (7) hours using 37 mm mixed cellulose ester filter connected to battery-powered sampling pumps at a flow rate of 2 liters per minute. Pumps were calibrated before and after each sampling period. Two (2) samples were collected inside the building and one (1) was collected on the roof. One blank sample was also submitted on each day. The samples were sent to PSC Analytical Services, Inc., an American Industrial Hygiene Association-accredited laboratory in Reading, PA. Analysis was performed by NIOSH Methods 7300M. Each sample was analyzed for a panel of eleven (11) metals. The metals were aluminum (Al), cadmium (Cd), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni) and zinc (Zn). A copy of the analytical report is attached.

The sampling locations were: the 1st floor lobby, 2nd floor bridge entrance lobby and the Roof.

Tenzin Namgyal and Wagdi Abdelshahid conducted the sampling consistent with accepted industrial hygiene practices. The results represent conditions on the day the samples were collected.

SAMPLE RESULTS

The only metal present at concentrations greater than the limits of detection was chromium.

The concentrations indoors were 0.000720 mg/m³ (0.720 ug/m³) and 0.000596 mg/m³ (0.596 ug/m³). The outdoor (roof) sample contained 0.000652 mg/m³ (0.652 ug/m³). The blank contained detectable chromium (0.486 micrograms) as well. After the blank is subtracted, the indoor samples contained 0.213 and 0.089 mg/m³ and the outdoor sample contained 0.146 ug/m³.

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SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

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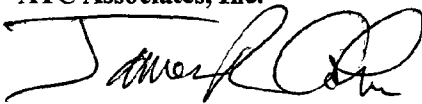
ATC Project No. 15-19125-0246

The established regulatory values for metals in air are intended for industrial workplace exposures and are not generally applicable to office/school settings. There are no standards for metals in indoor air in non-industrial situations.

The Environmental Protection Agency has recommended a screening level for hexavalent Cr (the more toxic form) of 0.6 micrograms per cubic meter of air (0.6 ug/m^3) based on continuous exposure for one year. These samples were analyzed for total Cr. The levels detected were *below* the EPA screening level.

ATC appreciates the opportunity to provide this indoor air quality service to the BOE. Please call me at (212) 353-8280 extension 212 if you have any questions.

Sincerely,
ATC Associates, Inc.



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

Attachment

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