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April 26, 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
High School for Leadership & Public Service (M894)
ATC Project No. 15-19125-0290**

Dear Mr. Orlan:

ATC Associates, Inc. (ATC) is pleased to provide this letter report of air sampling for metals conducted on March 15, 22 and 29, 2002, at the referenced school. The New York City Board of Education (BOE) requested these samples to determine if acceptable air quality is being maintained.

Scope of Work

On each day, ATC collected four (4) samples for metals in air. Samples were collected for ten (10) hours. Three (3) samples were collected inside the building and one (1) was collected outdoors. One blank filter per day was also submitted. The samples were sent to PSC Analytical Services, Inc., an American Industrial Hygiene Association-accredited laboratory in Reading, PA. A copy of the analytical laboratory report is attached.

The samples were collected using 37 mm mixed cellulose ester filters connected to battery-powered sampling pumps at a flow rate of 2 liters per minute. Pumps were calibrated before and after each sampling period. Analysis was performed by NIOSH Methods 7300M. Each sample was analyzed for a panel of twelve (12) metals. The metals were aluminum (Al), cadmium (Cd), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni) and zinc (Zn). A copy of the analytical report is attached.

Tenzin Namgyal and Wagdi Abdelshahid, Industrial Hygienists from ATC's New York City office, conducted the sampling consistent with accepted industrial hygiene practices. The results represent conditions on the day the samples were collected.

The locations of the samples were the Roof by air intake, 1st floor Main Lobby, 5th floor Hallway near the elevator and the 10th floor Hallway near the elevator.

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

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CITY_21MC100_003431693

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

Mr. Bernard P. Orlan
Air Sampling for Metals
H.S. for Leadership & Pub. Service (894M)

April 26, 2002

Page 2

ATC Project No. 15-19125-0290

Results

March 15

Chromium (Cr), iron (Fe) and lead (Pb) were found above the limits of detection. Cr and Pb were also detected in the blank. Subtracting the Cr content of the blank from concentrations in the samples reduces those concentrations by approximately 50% to 0.00016 - 0.000315 mg/m³. Blank-correcting the Pb concentrations lowers them to below the limit of detection. Fe was detected in two samples (Main Lobby, M1 and Roof, M4) at 0.00177 and 0.00147 mg/m³.

March 22

Cr was detected in all four samples, Pb and Fe were detected in one sample. Cr and Fe were detected in the blank. Blank-correcting the Cr and Pb concentrations in the samples lowers them to below or just above the limits of detection. Fe was detected in the Main Lobby sample (M1) at 0.00171 mg/m³.

March 29

The only metal detected was Cr, however blank-correcting the Cr concentrations in the samples lowers them to below the limit of detection.

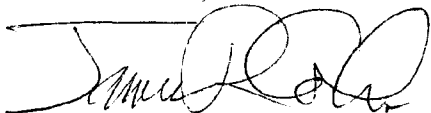
The Environmental Protection Agency (EPA) has set a screening level for hexavalent chromium (the more toxic form) in air of 0.6 micrograms per cubic meter of air (ug/m³), this assumes a continuous exposure for one year. The samples here were analyzed for total chromium (trivalent and hexavalent).

The EPA has an ambient air standard for Pb of 1.5 ug/m³, based on a three-month exposure.

The EPA has no screening level or standard for Fe in ambient air.

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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