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July 3, 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
P. S. 150M
ATC Project No. 15-19125-0289

Dear Mr. Orlan:

ATC Associates, Inc. (ATC) is pleased to provide this report of air sampling for metals in airborne dust on June 3, 10, and 17, 2002, at the referenced school. The New York City Board of Education (BOE) requested this sampling as part of a program to determine the indoor air quality prior to reoccupancy.

On each day, ATC collected three (3) air samples for metals at specified locations. Samples were collected for a minimum of eight (8) hours 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. Two (2) samples were collected outside the building and one (1) was collected indoors. ATC also submitted two (2) field blanks. The additional blank was included to confirm the levels of any trace contaminants in the filters. The samples were sent to PSC Analytical Services, Inc., an American Industrial Hygiene Association-accredited laboratory in Reading, PA. Analysis was performed by NIOSH Method 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). Copies of the analytical laboratory reports are 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 the conditions on the days the samples were collected.

The sampling locations were as follows:

- Outdoors-Plaza,
- Main Lobby, and
- Roof.

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 metals in indoor air in non-industrial situations.

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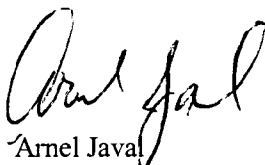
RESULTS

On all sampling days, Chromium (Cr) was detected in all three samples and the blanks. Blank-correcting the Cr concentrations in the samples lowers them to below or just above the limits of detection. No other metals were detected.

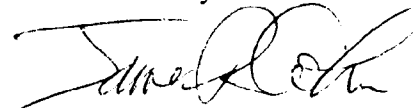
The Environmental Protection Agency (EPA) has set a screening level for hexavalent chromium (the more toxic form) in air of 0.6 ug/m^3 , this assumes a continuous exposure for one year. The samples here were analyzed for total chromium (trivalent and hexavalent). In all the sampling days, the chromium concentrations, after blank-correction, were below the EPA screening level.

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

Sincerely,
ATC Associates, Inc.


Arnel Javal
Senior Project Manager

Reviewed By:


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

Attachment