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March 18, 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. 89M
ATC Project No. 15-19125-0297

Dear Mr. Orlan:

ATC Associates, Inc. (ATC) is pleased to provide this report of air sampling for metals in airborne dust on March 7, 2002, at the referenced school. The New York City Board of Education (BOE) requested this sampling at the recommendation of Environ Corp., a consultant retained by the parents association.

Scope of Work

ATC collected four (4) samples for metals at specified locations. Samples were collected for a minimum of ten (10) 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. One (1) sample was collected inside the building and three (3) were collected outdoors. One blank sample was also submitted. 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 specified by the parents association consultant. They were as follows: 1st floor Hallway by the Cafeteria, Playground (north side), Playground (south side) and the Roof by the air intake.

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

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

The metals that were found above the limits of detection were chromium (Cr) and iron (Fe). The other metals were not detected. Cr was also detected in the blank. The table shows the locations and blank-corrected concentrations at which Cr and Fe were detected.

**CHROMIUM (Cr) and IRON (Fe) CONCENTRATIONS
(Blank-corrected)**

1 st Floor Hallway by Cafeteria/M1	0.034	BDL**
Playground (north side)/M2	0.027	2.10
Playground (south side)/M3	0.065	1.72
Roof/M4	0.084	BDL
Blank/M5	0.294 ug/sample	BDL

* micrograms per cubic meter of air

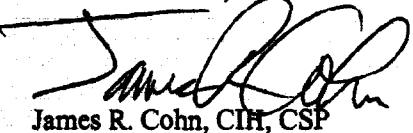
** Below Detection Limit

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). The concentrations in these samples are below the EPA level.

The EPA has no published screening level or guideline for iron 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