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August 30, 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 Lead
Intermediate School 306 X
40 West Tremont Avenue
Bronx, 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 air samples for lead collected on August 27, 2002, at the referenced school. The New York City Board of Education (BOE) requested this sampling to determine ambient air lead concentrations inside and outside the school.

Scope of Work

ATC collected fourteen (14) samples for lead-in-air at specified locations. Samples were collected for eight (8) hours using 37 mm mixed cellulose ester filters connected to electric sampling pumps at a flow rate of 2 liters per minute. Pumps were calibrated before and after each sampling period. Twelve (12) air samples were collected inside and two (2) air samples were collected outside the building. Two (2) blanks sample were also submitted. The samples were analyzed by ATC's American Industrial Hygiene Association-accredited laboratory in New York City. Analysis was performed by NIOSH Method 7082. A copy of the laboratory report is attached.

The sampling locations were as follows:

- 1st Floor Lobby (Atrium);
- Auditorium;
- Gymnasium;
- Library;
- Corridor B – 2nd Floor HVAC #7;
- Corridor C – 3rd Floor HVAC #12;
- Corridor A – 4th Floor HVAC #11;
- Boy's Locker Room;
- Girl's Locker Room;
- Classrooms 561, 411, 322;
- Roof Intake – outside the building;
- Exterior next to the Main Entrance.

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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 this metal in indoor air in non-industrial situations. The Environmental Protection Agency's ambient air standard for lead is 1.5 micrograms per cubic meter of air (1.5 ug/m^3), this is a three-month average. The sampling method used for these samples was an attempt to duplicate the EPA's method of sample collection as described on the EPA's September 11th website. The lead in air results reported there are from eight- hour samples.

Yiannis Efstathiou and Herant Antonyant, Environmental Technicians from ATC's New York City office, collected the samples.

Results

The levels of airborne lead collected outside the building *did not exceed* the limits of detection in any of the samples ($<1.5 \text{ ug/m}^3$). Five (5) of the twelve (12) samples collected inside the building exceeded the limit of detection ($<1.5 \text{ ug/m}^3$). Airborne lead concentrations in these five samples were: first floor lobby = 1.9 microgram per cubic meter (ug/m^3), auditorium = 1.7 microgram per cubic meter (ug/m^3), gymnasium = 2.3 microgram per cubic meter (ug/m^3), corridor A 4th floor HVAC #11 = 2.3 microgram per cubic meter (ug/m^3), and boy's locker room = 2.3 microgram per cubic meter (ug/m^3).

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.


Arnel Javal
Senior Project Manager

Attachment