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April 29, 2002

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

**Re: Gravimetric Respirable Particulate Sampling
 P. S. 234M
 ATC Project No. 15-19125-0279**

Dear Mr. Orlan:

ATC Associates Inc. (ATC) is pleased to provide this report of respirable particulate sampling conducted March 27, April 3 and 10, 2002, in the referenced school building. The New York City Board of Education (BOE) requested this monitoring to determine if acceptable indoor air quality (IAQ) is being maintained.

SCOPE OF WORK

ATC collected samples of respirable particulates (PM_{2.5}) for 24 hours for gravimetric analysis using a Micro Environmental Monitor® (MEM®), manufactured by SKC, Inc. The volume of each sample was 14,400 liters of air. The samples were collected on pre-weighed PVC filters supplied and analyzed by PSC Analytical Services, Inc., an American Industrial Hygiene Association-accredited laboratory in Reading, PA.

The assessment was performed consistent with generally accepted indoor air quality assessment practices. As with all such assessments, there were inherent limitations created by constraints of time, operational and work practice variability, variations in indoor air quality parameters and sampling and analytical accuracy.

Wagdi Abdelshahid and Tenzin Namgyal, Industrial Hygienists of ATC's New York City office, conducted the sampling.

The results of the sampling represent conditions found on the dates the samples were collected. The information presented in this report should be used by the BOE as a guide to assess the need for further improvements in current indoor air quality control activities.

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CITY_21MC100_003444778

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

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EVALUATION CRITERIA

Currently, there are no regulatory standards for indoor air quality in non-industrial buildings, such as offices and schools. Table 1 lists target guideline for the parameter that ATC evaluated during this investigation. Meeting the listed value does not assure that acceptable indoor air quality will be achieved at all times.

TABLE 1
TARGET GUIDELINES FOR IAQ PARAMETER EVALUATED

PARAMETER	TARGET LEVEL	AGENCY OR ORGANIZATION
Respirable Particulates (PM _{2.5})	65 micrograms per cubic meter of air (µg/m ³) 24-hour average	USEPA NPAAQS
	40 micrograms per cubic meter of air (µg/m ³) 24-hour average	USEPA recommendation for children and sensitive individuals

USEPA = United States Environmental Protection Agency

NPAAQS = National Primary Ambient-Air Quality Standard

RESULTS

ATC collected one (1) 24-hour gravimetric respirable particulate sample in Main Lobby on each day. Copies of the analytical laboratory reports are provided in the Attachment. The results are shown in Table 2:

TABLE 2
MAIN LOBBY 24-HOUR AVERAGE PM_{2.5} CONCENTRATIONS

DATE	ug/m ³
March 26-27	8.33
April 2-3	13.2
April 9-10	<3.47*

* Limit of Detection

CONCLUSION

Sample results obtained from all three 24-hour sampling periods were *below* both the EPA NPAAQS for PM_{2.5} of 65 ug/m³ (24-hour average) and the EPA recommended level of 40 ug/m³.

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It is our pleasure to provide these indoor air consultative services to the New York City Board of Education. If you have any questions about this report, please call (212) 353-8280, extension 212.

Sincerely,
ATC ASSOCIATES INC.

A handwritten signature in black ink, appearing to read "James R. Cohn". The signature is fluid and cursive, with the first name "James" and last name "Cohn" clearly distinguishable.

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

Attachment

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CITY_21MC100_003444780

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008