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May 10, 2002

Mr. Bernard P. Orlan
 Director, Environmental Health & Safety
 New York City Board of Education
 28-11 Queens Plaza North
 Long Island City, NY 11101-4008

**Re: Respirable Particulate Monitoring
 Various School Locations
 ATC Project No. 15-19125-0314**

Dear Mr. Orlan:

ATC Associates Inc. (ATC) is pleased to provide this report of the results of real-time air monitoring of respirable particulates conducted on May 9, 2002, at numerous locations. The New York City Board of Education (BOE) requested this monitoring to obtain comparison data for lower Manhattan schools.

SCOPE OF WORK

Sonny Ramlal, Environmental Technician from ATC's New York City office, conducted the monitoring. ATC's findings are based on real-time environmental measurements. Real-time readings of respirable particulates (PM_{2.5}) were collected from outdoors and limited indoor locations.

ATC recorded concentrations of respirable particulates with a Dust Trak® Aerosol Monitor Model 8520, manufactured by TSI, Inc.

The assessment was performed consistent with generally accepted 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 air quality parameters, and sampling and analytical accuracy. The results of the sampling represent conditions found on the date of the survey and may not represent conditions found at other times.

EVALUATION CRITERIA

The target guidelines for the parameter that ATC evaluated during this investigation are shown in the following table.

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TARGET GUIDELINES FOR AIR QUALITY PARAMETERS EVALUATED*

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

USEPA = United States Environmental Protection Agency
NPAAQS = National Primary Ambient-Air Quality Standard

REAL-TIME SAMPLING RESULTS

Thirty-one (31) indoor and thirty-four (34) outdoor respirable particulates measurements* were collected from twenty-nine (29) school locations in Manhattan, ranging from West 11th Street to East 33rd Street. The measurements were made from 5:45 A.M. to 3:58 P.M. The IAQ field report forms are provided as the Attachment.

The outdoor PM_{2.5} concentrations ranged from 12 µg/m³ to 25 µg/m³ with an average of 20 µg/m³. The indoor concentrations ranged from 9 µg/m³ to 22 µg/m³ with an average of 16 µg/m³. None of the indoor or outdoor readings were above the NPAAQS of 65 µg/m³ 24-hour average concentration of particulate matter 2.5 micrometers or less in aerodynamic diameter or above the USEPA recommended guideline for children and sensitive individuals of 40 µg/m³.

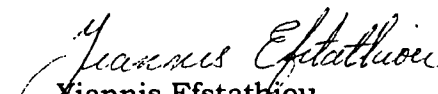
* These measurements were instantaneous readings, the NPAAQS and the recommendation for children are 24-hour averages.

CONCLUSION

Based on our measurements, none of the indoor or outdoor readings were above the NPAAQS of 65 µg/m³ 24-hour average concentration of particulate matter 2.5 micrometers or less in aerodynamic diameter or above the USEPA recommended guideline for children and sensitive individuals of 40 µg/m³.

It is our pleasure to provide these air quality 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 or 211.

Sincerely,
ATC ASSOCIATES INC.


Yiannis Efsthathiou
Senior Project Manager

Reviewed by:


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

Attachment