

Limited lead-in-dust wipe sampling report

**IS 306X
40 WEST TREMONT AVENUE
BRONX, NY 10453**

HVAC SYSTEMS

Prepared for:

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

Prepared by:



**104 East 25th Street
New York, NY 10010
Tel: (212) 353-8280 Fax: (212) 353-8306**

May 2, 2002

CONFIDENTIAL,

CITY_21MC100_003388300

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

Scope of Work

ATC Associates, Inc. (ATC) was retained by New York City Board of Education (NYC-BOE) to collect dust wipe samples to be analyzed for lead content. Dust wipe samples were collected from representative HVAC units located in mechanical equipment areas. These locations are as follows:

- HVAC # 7 (Supply)
- HVAC #7 (Return)
- HVAC #6 (Supply)
- HVAC #6 (Return)
- HVAC #8 (Supply)
- HVAC #8 (Return)
- HVAC #10 (Supply)
- HVAC #10 (Return)
- HVAC #11 (Supply)
- HVAC #11 (Return)
- HVAC #9 (Supply)
- HVAC #9 (Return)
- HVAC #12 (Supply)
- HVAC #12 (Return)
- HVAC #3 (Supply)
- HVAC #3 (Return)
- HVAC #1 (Supply)
- HVAC #1 (Return)

The purpose of the sampling was to determine the lead content in the dust present within these units. ATC's representative Mr. Chacko Mathew visited IS 306X, located at 40 West Tremont Avenue, Bronx, NY on April 28, 2002.

Samples were collected from within the ducts associated with the above referenced units. Access was gained through hatch doors present on supply and return systems.

LEAD-IN-DUST SAMPLING

Lead-in-dust threshold levels

The New York City Health Code, part 173.14, the Federal Departments of Housing and Urban Development (HUD) and Environmental Protection Agency (EPA) have established acceptable lead-in-dust levels for re-occupancy after a lead abatement has occurred (commonly referred to as "final clearance" levels). As stated in the Code, final clearance after lead abatement activity is achieved when dust wipe samples indicate lead levels below those listed below:

For Windowsills:	250 $\mu\text{g}/\text{ft}^2$
For Floors:	40 $\mu\text{g}/\text{ft}^2$

Although the lead-in-dust samples collected at IS 306X were not collected in response to lead abatement, these thresholds are referenced due to the fact that no other regulations or standards are applicable to this sampling.



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Sampling Methodology

ATC provided all laboratory analytical services in support of this inspection. ATC is certified by the New York State Department of Health's Environmental Laboratory Accreditation Program to perform lead and related analyses of environmental samples (Laboratory ID Number: 10879). The laboratory utilizes the United States Environmental Protection Agency analysis method number SW846-7420 and the National Institute of Occupational Safety and Health method number 7082M.

The samples were obtained by gently wiping a measured surface area with non-alcohol moistened towelettes. ATC's representative wore disposable gloves; new gloves were worn with each new sample collected, and special care was taken to avoid contamination of the towelette and collection vial. Samples were then placed into 50ml plastic vials and immediately sealed. The chain of custody form was completed documenting the exact locations and measurements of the areas sampled.

Results of Dust Wipe Sampling

A total of eighteen (18) dust wipe samples were collected from the above referenced locations. Laboratory analysis indicated that four (4) of the of the eighteen (18) samples collected from HVAC units were above the guideline level of $250 \mu\text{g}/\text{ft}^2$ for window sills. Laboratory analysis also indicated that ten (10) of the eighteen samples were above the guideline level $40 \mu\text{g}/\text{ft}^2$ for floors but below $250 \mu\text{g}/\text{ft}^2$. The remaining four (4) samples were below $40 \mu\text{g}/\text{ft}^2$. The laboratory report and chain of custody forms for the samples collected are included in the Appendix of this report.

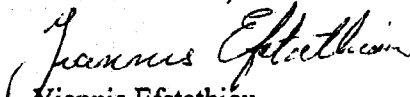
Limitations of dust wipe sampling

Lead wipe sampling was conducted at NYC-BOE request. The results of this report are applicable for the time the testing was performed. ATC makes no representations or warranties concerning the standards and specifications provided in the EPA and/or HUD Guidelines related to lead wipe sampling and interpretation of these sample results.

It is our pleasure to provide these services to New York City Board of Education. Should you have any questions regarding these sample results, please do not hesitate to contact me at (212) 353-8280 extension #211.

Sincerely,

ATC Associates, Inc.


Yiannis Efstathiou
Senior Project Manager



IS 306X
May 2, 2002

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CITY_21MC100_003388302

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008