

[illegible]



February 7, 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: Summary of Wipe and Air Sampling @  
Public School 150 M  
334 Greenwich Street  
New York, New York 10013  
ATC Project No. 15-19125-0289

Dear Mr. Orlan:

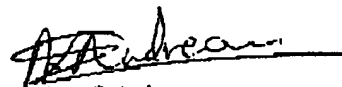
At your request, ATC Associates Inc. (ATC) is pleased to provide you with the general summary of results for the wipe and air sampling performed at PS 150M. All the results were tabulated in the attached tables.

It is our pleasure to provide these wipe/air sampling services to the New York City Board of Education. If you have any questions about this report, please call (212) 353-8280, extension 261 or 298.

Sincerely,  
ATC ASSOCIATES INC.

  
Arnel Javal  
Project Manager

Reviewed by:

  
Andreas C. Andreou  
Senior Project Manager

| PUBLIC SCHOOL 150M ASBESTOS SAMPLING |                                                         |                                                                        |                                            |                                                                                                                                                                                        |                               |
|--------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Date Collected                       | TEM AMBIENT AIR TESTING<br>(Structure/mm <sup>3</sup> ) |                                                                        | SETTLED DUST BULK<br>SAMPLING FOR ASBESTOS |                                                                                                                                                                                        | BULK SAMPLING FOR<br>ASBESTOS |
|                                      | # of Sample                                             | Results of TEM<br>Asbestos<br>Analysis<br>(structure/mm <sup>3</sup> ) | # of<br>Sample                             | Results of Settled Dust<br>Bulk Sample for<br>Asbestos                                                                                                                                 |                               |
| 9/21/01                              | 9                                                       | No structures detected                                                 | 21                                         | Settled dust samples were collected using 3M satch tape and a plate filter. Two (2) out of the collected twenty-one (21) dust samples were found to contain chrysotile asbestos fibers |                               |
| 11/29/01                             | 15                                                      | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 11/29/01                             | 15                                                      | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 12/01/01                             | 15                                                      | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 12/02/01                             | 15                                                      | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 01/21/02                             | 9                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 01/25/02                             | 9                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 01/25/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 01/24/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 01/25/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 01/26/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 01/27/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 01/28/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 01/29/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 01/30/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 01/31/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 02/01/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 02/02/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 02/03/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 02/04/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 02/05/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |
| 02/06/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                        |                               |

## PUBLIC SCHOOL 150 M RESPIRABLE PARTICULATES TESTING

| Date                 | Type of sampling          | No. of readings | Number of indoor readings >40 to ≤65 µg/m <sup>3</sup> (24 hrs average) | Number of indoor readings >65 µg/m <sup>3</sup> (24 hrs average) | Range of indoor respirable particulates concentration (µg/m <sup>3</sup> ) | Average indoor respirable particulates concentration (µg/m <sup>3</sup> ) | Range of outdoor respirable particulates concentration (µg/m <sup>3</sup> ) | Average outdoor respirable particulates concentration (µg/m <sup>3</sup> ) |
|----------------------|---------------------------|-----------------|-------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 11/19/01             | Direct Readings           | 30              | 8                                                                       | 0                                                                | 35 - 47                                                                    | 30                                                                        | 45                                                                          | 45                                                                         |
| 11/20/01             | Direct Readings           | 32              | 2                                                                       | 24                                                               | 61 - 84                                                                    | 73                                                                        | 86 - 89                                                                     | 88                                                                         |
| 12/01/01             | Direct Readings           | 34              | 25                                                                      | 0                                                                | 36 - 59                                                                    | 45                                                                        | 28 - 42                                                                     | 35                                                                         |
| 12/02/01             | Direct Readings           | 34              | 17                                                                      | 0                                                                | 36 - 61                                                                    | 44                                                                        | 48 - 50                                                                     | 40                                                                         |
| 01/15/02             | Direct Readings           | 25              | 0                                                                       | 0                                                                | 19 - 37                                                                    | 24                                                                        | 32 - 35                                                                     | 34                                                                         |
| 01/16/02             | Direct Readings           | 23              | 9                                                                       | 0                                                                | 12 - 59                                                                    | 34                                                                        | 19.6 - 31                                                                   | 38                                                                         |
| 01/17/02             | Direct Readings           | 22              | 2                                                                       | 0                                                                | 17 - 44                                                                    | 28                                                                        | 51                                                                          | 51                                                                         |
| 01/18/02             | Direct Readings           | 26              | 12                                                                      | 0                                                                | 32 - 59                                                                    | 41                                                                        | 38 - 42                                                                     | 40                                                                         |
| 01/15/02 to 01/16/02 | MEM (24-hour Data)        |                 |                                                                         |                                                                  | 9.72 and 13.2                                                              |                                                                           |                                                                             |                                                                            |
|                      | Dust 'Trak (24-hour Data) |                 |                                                                         |                                                                  | 19 and 32                                                                  |                                                                           |                                                                             |                                                                            |
| 01/20/02 to 01/21/02 | 24-hour Data              |                 |                                                                         |                                                                  | 82.5 and 16.7                                                              |                                                                           |                                                                             |                                                                            |
| 01/25/02 - 01/26/02  | Dust 'Trak (24-hour Data) |                 |                                                                         |                                                                  | 17 and 29                                                                  |                                                                           |                                                                             |                                                                            |
|                      | MEM (24-hour Data)        |                 |                                                                         |                                                                  | 6.61 and 9.19                                                              |                                                                           |                                                                             |                                                                            |
| 01/21/02             | Direct Readings           | 28              | 18                                                                      | 0                                                                | 38 - 56                                                                    | 44                                                                        | 69                                                                          | 69                                                                         |
| 01/22/02             | Direct Readings           | 38              | 0                                                                       | 0                                                                | 21 - 35                                                                    | 29                                                                        | 25                                                                          | 25                                                                         |
| 01/23/02             | Direct Readings           | 37              | 1                                                                       | 0                                                                | 15 - 41                                                                    | 29                                                                        | 10                                                                          | 10                                                                         |
| 01/24/02             | Direct Readings           | 40              | 19                                                                      | 0                                                                | 30 - 46                                                                    | 40                                                                        | 31 - 40                                                                     | 36                                                                         |
| 01/25/02             | Direct Readings           | 40              | 20                                                                      | 11                                                               | 25 - 100                                                                   | 52                                                                        | 84 - 100                                                                    | 65                                                                         |
| 01/26/02             | Direct Readings           | 40              | 7                                                                       | 0                                                                | 29 - 46                                                                    | 35                                                                        | 37 - 76                                                                     | 61                                                                         |
| 01/29/02             | Direct Readings           | 40              | 13                                                                      | 0                                                                | 28 - 58                                                                    | 41                                                                        | 28 - 56                                                                     | 83                                                                         |
| 01/30/02             | Direct Readings           | 40              | 1                                                                       | 0                                                                | 30 - 44                                                                    | 33                                                                        | 17 - 40                                                                     | 28                                                                         |
| 01/31/02             | Direct Readings           | 40              | 2                                                                       | 0                                                                | 30 - 42                                                                    | 33                                                                        | 38 - 44                                                                     | 41                                                                         |
| 02/01/02             | Direct Readings           | 40              | 17                                                                      | 0                                                                | 24 - 51                                                                    | 41                                                                        | 38 - 45                                                                     | 41                                                                         |
| 02/02/02             | Direct Readings           | 40              | 0                                                                       | 0                                                                | 4 - 53                                                                     | 9                                                                         | 4 - 6                                                                       | 5                                                                          |
| 02/03/02             | Direct Readings           | 40              | 0                                                                       | 0                                                                | 4 - 29                                                                     | 8                                                                         | 4 - 6                                                                       | 4                                                                          |
| 02/04/02             | Direct Readings           | 40              | 0                                                                       | 0                                                                | 12 - 32                                                                    | 25                                                                        | 16 - 41                                                                     | 25                                                                         |
| 02/05/02             | Direct Readings           | 40              | 0                                                                       | 0                                                                | 6 - 23                                                                     | 15                                                                        | 7 - 19                                                                      | 12                                                                         |
| 02/06/02             | Direct Readings           | 40              | 0                                                                       | 0                                                                | 16 - 37                                                                    | 26                                                                        | 30 - 42                                                                     | 37                                                                         |

| PUBLIC SCHOOL 150 M |                          |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                         |                                    |                          |                               |                                                                            |                 |                 |                                |                              |                                                                                                                                     |                                                                                                                                                                                                                                                       |
|---------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------|-------------------------------|----------------------------------------------------------------------------|-----------------|-----------------|--------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                | LEAD-IN-DUST-WIPE SAMPLE |                                                                                                                                                                                                                                                                                     | MERCURY                                                                                                                                                                                                                                                                                 | PCB'S AND CYANIDE                  | SILICA (RESPIRABLE DUST) | FIBER GLASS AND FUNGAL SPORES | TOXICORGANIC COMPOUND (TCOC), AND POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) |                 | DIOXINS SAMPLES |                                | HYDROCARBONS (HC) AND METALS |                                                                                                                                     |                                                                                                                                                                                                                                                       |
|                     | # of Sample              | Lead Conc. On Floor (ug/ft <sup>2</sup> )                                                                                                                                                                                                                                           | Lead Conc. On Window Sill (ug/ft <sup>2</sup> )                                                                                                                                                                                                                                         | Mercury Conc. (mg/m <sup>3</sup> ) | Concentration            | Range of Indoor Conc.         | Range of Outdoor Conc.                                                     | Indoor Readings | Outdoor Reading | Indoor Surfaces Range of Conc. | Air Plenum Conc.             | Indoor Readings                                                                                                                     | Outdoor Reading                                                                                                                                                                                                                                       |
| 11/27/01            |                          |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                         |                                    |                          |                               |                                                                            |                 |                 |                                |                              | 3 air samples (1 in hallway and 2 in classroom) for metals. None of the HCs in the room were present above the limits of detection. | 3 air samples for hydrocarbons. None of the HCs in the room were present above the limits of detection.                                                                                                                                               |
| 11/29/01            | 611                      | Readings above guidance level was found in the window well in the following locations:<br>Room 508 (2 <sup>nd</sup> window)<br>Room 505 (4 <sup>th</sup> window)<br>3 <sup>rd</sup> floor corridor (6 <sup>th</sup> window) and 1 <sup>st</sup> floor (over 3 <sup>rd</sup> window) | Readings above the guidance level was found in the window well in the following locations:<br>Room 508 (2 <sup>nd</sup> window)<br>Room 505 (4 <sup>th</sup> window)<br>3 <sup>rd</sup> floor corridor (6 <sup>th</sup> window) and 1 <sup>st</sup> floor (over 3 <sup>rd</sup> window) |                                    |                          |                               |                                                                            |                 |                 |                                |                              |                                                                                                                                     |                                                                                                                                                                                                                                                       |
| 11/30/01            | 59                       | Below Guidance Level                                                                                                                                                                                                                                                                | Below Guidance Level                                                                                                                                                                                                                                                                    |                                    |                          |                               |                                                                            |                 |                 |                                |                              |                                                                                                                                     | 4 air samples (3 indoor and 1 outdoor) for metals were collected. The only metal present at concentrations greater than the limit of detection is chromium (indoor range = 0.0402 - 0.0403 mg/m <sup>3</sup> and outdoor = 0.032 mg/m <sup>3</sup> ). |
| 12/30/01            | 4                        | Below Guidance Level                                                                                                                                                                                                                                                                | Below Guidance Level                                                                                                                                                                                                                                                                    |                                    |                          |                               |                                                                            |                 |                 |                                |                              |                                                                                                                                     |                                                                                                                                                                                                                                                       |

| PUBLIC SCHOOL 159 M      |             |                                           |                                                 |                                                                                              |                                                                                                    |                       |                        |                          |                 |                               |                                |                                                                             |                 |                 |                                                                                                                                                                                                                                                     |                                                                                                        |  |
|--------------------------|-------------|-------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------|------------------------|--------------------------|-----------------|-------------------------------|--------------------------------|-----------------------------------------------------------------------------|-----------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--|
| LEAD-IN-DUST-WIPE SAMPLE |             |                                           |                                                 | MERCURY                                                                                      |                                                                                                    | PCB'S AND CYANIDE     |                        | SILICA (RESPIRABLE DUST) |                 | FIBER GLASS AND FUNGAL SPORES |                                | TOXIC ORGANIC COMPOUND (TVOC), AND POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) |                 | DIOXINS SAMPLES |                                                                                                                                                                                                                                                     | HYDROCARBONS (HC) AND METALS                                                                           |  |
| Date                     | # of Sample | Lead Conc. On Floor (ug/ft <sup>2</sup> ) | Lead Conc. On Window Sill (ug/ft <sup>2</sup> ) | Mercury Conc. (mg/m <sup>3</sup> )                                                           | Concentration                                                                                      | Range of Indoor Conc. | Range of Outdoor Conc. | Results                  | Indoor Readings | Outdoor Reading               | Indoor Surfaces Range of Conc. | Air Plenum Conc.                                                            | Indoor Readings | Outdoor Reading |                                                                                                                                                                                                                                                     |                                                                                                        |  |
|                          |             |                                           |                                                 |                                                                                              |                                                                                                    |                       |                        |                          |                 |                               |                                |                                                                             |                 |                 |                                                                                                                                                                                                                                                     |                                                                                                        |  |
| 12/02/01                 |             |                                           |                                                 |                                                                                              |                                                                                                    |                       |                        |                          |                 |                               |                                |                                                                             |                 |                 | 4 air samples (3 indoor and 1 outdoor) keratids were collected. The only metal present at concentrations greater than the limit of detection is chromium (indoor range = 0.0002 - 0.0003 ug/m <sup>3</sup> and outdoor = 0.0002 ug/m <sup>3</sup> ) |                                                                                                        |  |
| 12/07/02                 |             |                                           |                                                 |                                                                                              |                                                                                                    |                       |                        |                          |                 |                               |                                |                                                                             |                 |                 | 3 air samples for 11 hydrocarbons. None of the HCs in the press were present above the limit of detection.                                                                                                                                          | 1 air sample for hydrocarbons. None of the HCs in the press were present above the limit of detection. |  |
| 12/13/04                 |             |                                           |                                                 |                                                                                              | The PCB wipe results of all 3 samples were below the reporting limits of 70 micrograms per sample. |                       |                        |                          |                 |                               |                                |                                                                             |                 |                 | The concentrations on 3 indoor wipe samples for dioxin ranged from 0.00053 to 0.00061 ng/m <sup>2</sup> .                                                                                                                                           |                                                                                                        |  |
| 12/15/01                 |             |                                           |                                                 | Mercury was not detected in 3 air samples at levels greater than that detected in the blank. |                                                                                                    |                       |                        |                          |                 |                               |                                |                                                                             |                 |                 |                                                                                                                                                                                                                                                     |                                                                                                        |  |

| PUBLIC SCHOOL 150 Y      |             |                                           |                                                 |                                                                                                   |                                                                                                                            |                                                                                                                                                   |                                                                              |                                                                                                                                                                       |                                                                                                    |                                |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|-------------|-------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------|------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LEAD-IN-DUST-WIPE SAMPLE |             |                                           |                                                 | MERCURY                                                                                           | PCB'S AND CYANIDE                                                                                                          | SILICA (RESPIRABLE DUST)                                                                                                                          | FIBER GLASS AND FUNGAL SPORES                                                | TOXIC ORGANIC COMPOUND (TVOC), AND POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)                                                                                           | DIOXINS SAMPLES                                                                                    | HYDROCARBONS (HC) AND METALS   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                   |
| Date                     | # of Sample | Lead Conc. On Floor (ug/lc <sup>2</sup> ) | Lead Conc. On Window Sill (ug/lc <sup>2</sup> ) | Mercury Conc. (mg/m <sup>3</sup> )                                                                | Concentration                                                                                                              | Range of Indoor Conc.                                                                                                                             | Range of Outdoor Conc.                                                       | Indoor Readings                                                                                                                                                       | Outdoor Reading                                                                                    | Indoor Surfaces Range of Conc. | Air Plenum Conc. | Indoor Readings | Outdoor Reading                                                                                                                                                                                                                                                                                                                                                                                   |
| 8/17/02                  |             |                                           |                                                 |                                                                                                   |                                                                                                                            | 2 silicon samples were collected. Silica was not detected                                                                                         | Silica = 12.3 micrograms per cubic meter of air. (Outside the Main Corridor) | 2 air samples of TVOC's were collected. TVOC's found were: Methylene Chloride (0.0063 to 0.0090 mg/m <sup>3</sup> ) and Toluene (0.0020 to 0.0026 mg/m <sup>3</sup> ) | 1 air sample of TVOC's was collected. TVOC found was Methylene Chloride (0.0036mg/m <sup>3</sup> ) |                                |                  |                 | Metals were detected in all 3 window wipe samples.                                                                                                                                                                                                                                                                                                                                                |
| 01/16/02                 | 4           | Below Guidance Level                      | Below Guidance Level                            | Mercury air samples were not detected in any of the samples at a level greater than in the blank. | The PCB wipe results for the sample and the blank were reported in the below reporting limits of 2.0 micrograms per sample | Silica was detected in the 2 of the 4 samples. They were found in Room 503 (0.0117 mg/m <sup>3</sup> ), and Room 410 (0.0147 mg/m <sup>3</sup> ). |                                                                              | 4 sealed dust bulk samples for fiberglass were collected. No fiberglass fiber was detected in all samples.                                                            |                                                                                                    |                                |                  |                 | 3 results: The only metals present at concentrations greater than the limits of detection were chromium (present in all the sample obtained) and magnesium obtained from the outdoor plaza.<br><br>11C4: None of the 3 air sample for dusts was over percent above the limits of detection for the analyses except for Arsenic (0.23 ug/m <sup>3</sup> ) found in the 1 <sup>st</sup> item lobby. |
| 01/26/02                 | 4           | Below Guidance Level                      | Below Guidance Level                            |                                                                                                   | The PCB wipe results for the main sample and blank sample were below the reporting limits of 2.0 micrograms per sample.    |                                                                                                                                                   |                                                                              | 6 sealed dust bulk samples for fiberglass were collected. No fiberglass fiber was detected on all samples.                                                            |                                                                                                    |                                |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                   |
| 02/04/02                 | 4           | Below Guidance Level                      | Below Guidance Level                            |                                                                                                   |                                                                                                                            |                                                                                                                                                   |                                                                              | 4 sealed dust bulk samples for fiberglass were collected. No fiberglass fiber was detected on all samples.                                                            |                                                                                                    |                                |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                   |
| 02/05/02                 | 7           | Below Guidance Level                      | Below Guidance Level                            |                                                                                                   |                                                                                                                            |                                                                                                                                                   |                                                                              |                                                                                                                                                                       |                                                                                                    |                                |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                   |

| PUBLIC SCHOOL 150N |                        |                                                                                                                                                                                                              |                                                                                                                                                                                                              |                                    |                   |                          |                        |                                |                                                                                                                                                                                                                                                                                                                                                        |
|--------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------|--------------------------|------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date               | LEAD-BLIND-WIPE SAMPLE |                                                                                                                                                                                                              |                                                                                                                                                                                                              | MERCURY                            | PCB'S AND CYANIDE | SILICA (RESPIRABLE DUST) |                        | FIBER GLASS AND FUNGAL SPORES  | TOXIC ORGANIC COMPOUNDS (TVOC), AND POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)                                                                                                                                                                                                                                                                            |
|                    | # of Sample            | Lead Conc. On Floor (ug/ft <sup>2</sup> )                                                                                                                                                                    | Lead Conc. On Window Sill (ug/ft <sup>2</sup> )                                                                                                                                                              | Mercury Conc. (ug/m <sup>3</sup> ) | Concentration     | Range of Indoor Conc.    | Range of Outdoor Conc. | Indoor                         | Outdoor                                                                                                                                                                                                                                                                                                                                                |
| 11/27/04           |                        |                                                                                                                                                                                                              |                                                                                                                                                                                                              |                                    |                   |                          |                        | Indoor Readings                | Outdoor Reading                                                                                                                                                                                                                                                                                                                                        |
| 11/27/04           | 10                     | Readings above guideline level found in the 7th floor girls locker room 100 (1st reading) 102 (2nd reading) 4.0 (4th reading) 1st floor corridor (6th reading) and 1st floor girls locker room (8th reading) | Readings above guideline level found in the 7th floor girls locker room 100 (1st reading) 102 (2nd reading) 4.0 (4th reading) 1st floor corridor (6th reading) and 1st floor girls locker room (8th reading) |                                    |                   |                          |                        |                                |                                                                                                                                                                                                                                                                                                                                                        |
| 11/27/04           | 52                     | Golden Gate Level                                                                                                                                                                                            | Golden Gate Level                                                                                                                                                                                            |                                    |                   |                          |                        |                                |                                                                                                                                                                                                                                                                                                                                                        |
| 11/27/04           | 1                      | Golden Gate Level                                                                                                                                                                                            | Golden Gate Level                                                                                                                                                                                            |                                    |                   |                          |                        |                                |                                                                                                                                                                                                                                                                                                                                                        |
|                    |                        |                                                                                                                                                                                                              |                                                                                                                                                                                                              |                                    |                   |                          |                        | Indoor Surfaces Range of Conc. | Outdoor Reading                                                                                                                                                                                                                                                                                                                                        |
|                    |                        |                                                                                                                                                                                                              |                                                                                                                                                                                                              |                                    |                   |                          |                        | Air                            | Indoor Readings                                                                                                                                                                                                                                                                                                                                        |
|                    |                        |                                                                                                                                                                                                              |                                                                                                                                                                                                              |                                    |                   |                          |                        | Plenum Conc.                   | Outdoor Reading                                                                                                                                                                                                                                                                                                                                        |
|                    |                        |                                                                                                                                                                                                              |                                                                                                                                                                                                              |                                    |                   |                          |                        |                                | 3 air samples were collected. The only one that was above guideline level was the one in the girls locker room. The other two were below guideline level. The results are as follows: 1st floor girls locker room 100 (1st reading) 102 (2nd reading) 4.0 (4th reading) 1st floor corridor (6th reading) and 1st floor girls locker room (8th reading) |

| PUBLIC SCHOOL 150M       |             |                                          |                                                |                                    |               |                       |                        |                          |                 |                               |                               |                                                                            |                 |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| LEAD-IN-DUST-WIPE SAMPLE |             |                                          |                                                | MERCURY                            |               | PCB'S AND CYANIDE     |                        | SILICA (RESPIRABLE DUST) |                 | FIBER GLASS AND FUNGAL SPORES |                               | TOXIC ORGANIC COMPOUND (TVOC), AND POLYNUCLEAR AROMATIC HYDROCARBONS (PAH) |                 |                 | DIOXIN SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  | HYDROCARBONS (HC) AND METALS |  |
| Date                     | # of Sample | Lead Conc. On Floor (ug/m <sup>2</sup> ) | Lead Conc. On Window Sill (ug/m <sup>2</sup> ) | Mercury Conc. (ng/m <sup>3</sup> ) | Concentration | Range of Indoor Conc. | Range of Outdoor Conc. | Results                  | Indoor Readings | Outdoor Reading               | Indoor Surface Range of Conc. | Air Phase Conc.                                                            | Indoor Readings | Outdoor Reading | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |                              |  |
| 12/02/01                 |             |                                          |                                                |                                    |               |                       |                        |                          |                 |                               |                               |                                                                            |                 |                 | 1. no samples (1.25 mg and 1.25 mg) for metals were collected. the only metal detected was arsenic. the only metal detected was arsenic. the only metal detected was arsenic. the only metal detected was arsenic. the only metal detected was arsenic. the only metal detected was arsenic. the only metal detected was arsenic. the only metal detected was arsenic. the only metal detected was arsenic. the only metal detected was arsenic. the only metal detected was arsenic. the only metal detected was arsenic. the only metal detected was 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Page 2



February 7, 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

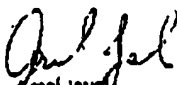
Re: Summary of Wipe and Air Sampling @  
Public School 150 M  
334 Greenwich Street  
New York, New York 10013  
ATC Project No. 15-19125-0289

Dear Mr. Orlan:

At your request, ATC Associates Inc. (ATC) is pleased to provide you with the general summary of results for the wipe and air sampling performed at PS 150M. All the results were tabulated in the attached tables.

It is our pleasure to provide these wipe/air sampling services to the New York City Board of Education. If you have any questions about this report, please call (212) 353-8280, extension 261 or 298.

Sincerely,  
ATC ASSOCIATES INC.

  
Amel Javel  
Project Manager

Reviewed by:

  
Andreas C. Andreou  
Senior Project Manager

P.02 Mar 4 2002 0:50

Fax: 212 353 9164 62

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ATC

Q: n03

| PUBLIC SCHOOL 150M ARBESTOS SAMPLING |                                                         |                                                                        |                                            |                                                                                                                                                                                       |                               |
|--------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Date Collected                       | TEM AMBIENT AIR TESTING<br>(Structure/mm <sup>3</sup> ) |                                                                        | SETTLED DUST BULK<br>SAMPLING FOR ARBESTOS |                                                                                                                                                                                       | BULK SAMPLING FOR<br>ARBESTOS |
|                                      | # of Sample                                             | Results of TEM<br>Asbestos<br>Analysis<br>(structure/mm <sup>3</sup> ) | # of<br>Sample                             | Results of Settled Dust<br>Bulk Sample for<br>Asbestos                                                                                                                                |                               |
| 4/21/01                              | 2                                                       | No structures detected                                                 | 21                                         | Settled dust samples were collected using 3M samplers and a glass fiber filter (2) out of the collected twenty-one (21) dust samples were found to contain chrysotile asbestos fibers |                               |
| 11/22/01                             | 15                                                      | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 11/30/01                             | 15                                                      | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 12/11/01                             | 15                                                      | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 12/22/01                             | 15                                                      | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 01/21/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 01/22/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 01/23/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 01/24/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 01/25/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 01/26/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 01/27/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 01/28/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 01/29/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 01/30/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 01/31/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 02/01/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 02/02/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 02/03/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 02/04/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 02/05/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |
| 02/06/02                             | 7                                                       | No structures detected                                                 |                                            |                                                                                                                                                                                       |                               |

## PUBLIC SCHOOL 158 NS RESPIRABLE PARTICULATES TESTING

| Date                 | Type of sampling | No. of readings | Number of indoor readings<br>>49 to <55 $\mu\text{g}/\text{m}^3$<br>(24 hrs average) | Number of indoor readings<br>>65 $\mu\text{g}/\text{m}^3$<br>(24 hrs average) | Range of indoor<br>respirable particulates<br>concentration<br>( $\mu\text{g}/\text{m}^3$ ) | Average indoor<br>particulates concentration<br>( $\mu\text{g}/\text{m}^3$ ) | Range of outdoor<br>respirable particulates<br>concentration<br>( $\mu\text{g}/\text{m}^3$ ) | Average outdoor<br>respirable particulates<br>concentration<br>( $\mu\text{g}/\text{m}^3$ ) |
|----------------------|------------------|-----------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 10/19/01             | Direct Readings  | 30              | 8                                                                                    | 0                                                                             | 15-17                                                                                       | 30                                                                           | 45                                                                                           | 45                                                                                          |
| 11/10/01             | Direct Readings  | 33              | 2                                                                                    | 23                                                                            | 61-84                                                                                       | 73                                                                           | 86-89                                                                                        | 88                                                                                          |
| 11/10/01             | Direct Readings  | 34              | 25                                                                                   | 0                                                                             | 36-59                                                                                       | 45                                                                           | 28-42                                                                                        | 35                                                                                          |
| 11/10/01             | Direct Readings  | 34              | 17                                                                                   | 0                                                                             | 36-69                                                                                       | 44                                                                           | 48-50                                                                                        | 40                                                                                          |
| 11/10/01             | Direct Readings  | 35              | 0                                                                                    | 0                                                                             | 19-37                                                                                       | 34                                                                           | 22-35                                                                                        | 34                                                                                          |
| 11/15/02             | Direct Readings  | 25              | 9                                                                                    | 0                                                                             | 12-59                                                                                       | 34                                                                           | 19-59                                                                                        | 36                                                                                          |
| 01/16/02             | Direct Readings  | 22              | 2                                                                                    | 0                                                                             | 17-41                                                                                       | 38                                                                           | 51                                                                                           | 51                                                                                          |
| 01/17/02             | Direct Readings  | 26              | 12                                                                                   | 0                                                                             | 32-59                                                                                       | 41                                                                           | 38-42                                                                                        | 40                                                                                          |
| 01/18/02             | Direct Readings  | 26              | 12                                                                                   | 0                                                                             | 9, 12 and 11.2                                                                              |                                                                              |                                                                                              |                                                                                             |
| 01/18/02 to 01/16/02 | (24-hour Data)   |                 |                                                                                      |                                                                               | 19 and 37                                                                                   |                                                                              |                                                                                              |                                                                                             |
| 01/20/02             | Direct Test      |                 |                                                                                      |                                                                               | 11.5 and 16.7                                                                               |                                                                              |                                                                                              |                                                                                             |
| 01/20/02             | Direct Test      |                 |                                                                                      |                                                                               | 17 and 79                                                                                   |                                                                              |                                                                                              |                                                                                             |
| 01/20/02             | Direct Test      |                 |                                                                                      |                                                                               | 4.61 and 9.19                                                                               |                                                                              |                                                                                              |                                                                                             |
| 01/20/02             | Direct Test      |                 |                                                                                      |                                                                               | 18-56                                                                                       | 14                                                                           | 69                                                                                           | 69                                                                                          |
| 01/21/02             | Direct Readings  | 28              | 10                                                                                   | 0                                                                             | 11-35                                                                                       | 29                                                                           | 25                                                                                           | 25                                                                                          |
| 01/21/02             | Direct Readings  | 38              | 0                                                                                    | 0                                                                             | 13-41                                                                                       | 39                                                                           | 10                                                                                           | 10                                                                                          |
| 01/21/02             | Direct Readings  | 37              | 1                                                                                    | 0                                                                             | 30-46                                                                                       | 40                                                                           | 31-48                                                                                        | 36                                                                                          |
| 01/21/02             | Direct Readings  | 46              | 19                                                                                   | 0                                                                             | 25-100                                                                                      | 38                                                                           | 81-108                                                                                       | 63                                                                                          |
| 01/21/02             | Direct Readings  | 46              | 20                                                                                   | 11                                                                            | 25-46                                                                                       | 33                                                                           | 57-76                                                                                        | 61                                                                                          |
| 01/21/02             | Direct Readings  | 46              | 7                                                                                    | 0                                                                             | 28-38                                                                                       | 41                                                                           | 28-46                                                                                        | 61                                                                                          |
| 01/21/02             | Direct Readings  | 48              | 13                                                                                   | 0                                                                             | 30-44                                                                                       | 35                                                                           | 17-40                                                                                        | 28                                                                                          |
| 01/21/02             | Direct Readings  | 48              | 1                                                                                    | 0                                                                             | 20-42                                                                                       | 31                                                                           | 30-44                                                                                        | 41                                                                                          |
| 01/21/02             | Direct Readings  | 10              | 2                                                                                    | 0                                                                             | 18-51                                                                                       | 31                                                                           | 38-45                                                                                        | 41                                                                                          |
| 01/21/02             | Direct Readings  | 10              | 17                                                                                   | 0                                                                             | 4-53                                                                                        | 9                                                                            | 4-6                                                                                          | 5                                                                                           |
| 01/21/02             | Direct Readings  | 10              | 0                                                                                    | 0                                                                             | 4-29                                                                                        | 8                                                                            | 4-5                                                                                          | 4                                                                                           |
| 01/21/02             | Direct Readings  | 10              | 0                                                                                    | 0                                                                             | 13-32                                                                                       | 23                                                                           | 16-41                                                                                        | 25                                                                                          |
| 01/21/02             | Direct Readings  | 10              | 0                                                                                    | 0                                                                             | 6-21                                                                                        | 15                                                                           | 1-5                                                                                          | 7                                                                                           |
| 01/21/02             | Direct Readings  | 10              | 0                                                                                    | 0                                                                             | 4-57                                                                                        | 16                                                                           | 10-32                                                                                        | 35                                                                                          |
| 01/21/02             | Direct Readings  | 10              | 0                                                                                    | 0                                                                             |                                                                                             |                                                                              |                                                                                              |                                                                                             |