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Raritan Center
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October 5, 2001

Mr. Frank E. Gobbo
Property Manager
STELLAR MANAGEMENT
14 Wall Street, 17th Floor
New York, New York 10005

Clayton Project No. 40-02128.00

Dear Mr. Gobbo:

Clayton Group Services, Inc. is pleased to provide its final report of the limited indoor air quality evaluation performed at 14 Wall Street, New York, New York.

It has been a pleasure to provide our services to you. We look forward to our continuing association with Stellar Management. If you should have any questions or require further information, please contact Ms. Barbara J. Woodhull, CIH, CSP, at (732) 225-6040.

Sincerely,

A handwritten signature in cursive script that reads "Lee R. Schumann".

Lee R. Schumann, CIH
Director
Occupational Health and Safety

LRS:rts

Enclosure

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**Indoor Air Quality Evaluation
of the
Multi-Tenant Office Building
located at
14 Wall Street
New York, New York
for
Stellar Management**

Clayton Project No. 40-02128.00

October 5, 2001



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- B **ANALYTICAL RESULTS OF AREA AIR SAMPLING FOR AIRBORNE FIBER CONCENTRATIONS**



1.0 INTRODUCTION

Mr. Frank E. Gobbo, Property Manager, of Stellar Management, retained Clayton Group Services, Inc. (Clayton) to conduct a limited indoor air quality evaluation at its multi-tenant office building located at 14 Wall Street, New York, New York. Clayton understands that Stellar Management requested this evaluation as part of its response to the September 11, 2001, World Trade Center tragedy.

To perform the evaluation, Clayton:

- Conducted a general walkthrough of 36 floor levels specified by Stellar Management.
- Performed direct-reading environmental monitoring for carbon dioxide and carbon monoxide concentrations within tenant areas and compared results with the recommendations of the American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE) Standard 55-1992, *Thermal Environmental Conditions for Human Occupancy*, and Standard 62-1999, *Ventilation for Acceptable Indoor Air Quality*.
- Performed direct-reading environmental monitoring for ambient respirable particulate concentrations and compared results with the recommendations of ASHRAE Standard 62-1999 and the Occupational Safety and Health Administration (OSHA) permissible exposure limits (PELs) for airborne particulate.
- Performed area air sampling for total airborne fiber concentrations in representative locations on each of the 36 floors specified by Stellar Management. Clayton submitted the samples to a qualified, independent laboratory for analysis by phase contrast microscopy (PCM) using National Institute for Occupational Safety and Health (NIOSH) Method 7400, A Rules. Results were compared to the OSHA PELs for airborne asbestos fibers in workplace exposures, as well as the United States Environmental Protection Agency (USEPA)-recommended asbestos abatement clearance criterion and the New York City abatement code criteria for airborne asbestos fibers. Method 7400 measures total airborne fibers and is not specific for asbestos.

Mr. Paul J. Price, CIH, CSP, Senior Industrial Hygienist, of Clayton, performed the evaluation on September 20, 21, and 24, 2001. Mr. Gobbo provided background information, building access, and engineering personnel support during the evaluation.

The scope of work is described in Clayton's Proposal No. 01EDOHS149, dated September 19, 2001, addressed to Mr. Gobbo, which also included the terms and conditions under which work was performed.

Appendix A presents direct-reading environmental measurements. Appendix B presents the analytical results of the total airborne fiber concentration air samples collected.



2.0 FACILITY DESCRIPTION

The building, located at 14 Wall Street, New York, New York, is a 39-story office building with an additional five-subgrade levels. The building is reported to be a concrete-encased, steel-framed structure that was developed in two phases – 1910 and 1933. According to Mr. Gobbo, the building is comprised of 57 tenants occupying approximately 1,043,000 square feet of tenant space.

The building is generally used as office space. Heating, ventilating, and air-conditioning (HVAC) systems are operated by Stellar Management, except for the HVAC system servicing the 14th and 15th floor areas. The tenant on this level, TheStreet.com, reportedly installed its own HVAC system. The building is a designated non-smoking facility.

Interior walls are generally constructed of gypsum wallboard, while the ceilings are generally constructed of suspended lay-in ceiling panel systems. Floors are generally carpeted in office and cubicle workstation areas, and associated break rooms and storage areas contain resilient vinyl floor tiles, with ceramic tiles in restrooms.

3.0 OBSERVATIONS AND DISCUSSION

The following observations and discussion are based on (1) the results of direct-reading environmental measurements for respirable particulate, carbon dioxide, carbon monoxide, temperature, and relative humidity; and (2) analytical results of area air sampling for total airborne fiber concentrations.

3.1 DIRECT-READING ENVIRONMENTAL MEASUREMENTS

Clayton conducted direct-reading environmental measurements on 36 floors specified by Stellar Management. Measurements of carbon dioxide, carbon monoxide, temperature and relative humidity were conducted using a calibrated TSI Q-TRAKTM monitor, Model 8551. Measurements of airborne respirable particulate were conducted using a calibrated MIE, Inc. *personal*/DATARAMTM Airborne Particulate Monitor, Model pDR-1000. These measurements were conducted on September 20, 21, and 24, 2001. The measurements are summarized in Appendix A, and are discussed in the paragraphs that follow.

Respirable Particulate

Measured respirable particulate concentrations within indoor tenant areas during quiescent (normal) conditions generally ranged from non-detectable to 10 micrograms per cubic meter of air ($\mu\text{g}/\text{m}^3$), with noted exceptions. Particulate concentrations measured on subgrade levels A, C, and E were in the range of 26 to 38 $\mu\text{g}/\text{m}^3$. These subgrade levels are comprised of mechanical and unoccupied spaces, except for the Bankers Trust Security Office that is located on subgrade level A. The particulate concentrations measured at grade on Wall Street ranged from 31 to 140 $\mu\text{g}/\text{m}^3$ over the 3-day period. Airborne particulate concentrations measured in the building lobby were in the range of



27 to 36 $\mu\text{g}/\text{m}^3$. The detection limit of the pDR instrument used to measure the respirable particulate concentrations was 1 $\mu\text{g}/\text{m}^3$.

ASHRAE Standard 62-1999 recommends that levels of total particulate in outdoor air entering a building not exceed the USEPA's National Ambient Air Quality Standards (NAAQS) of 75 $\mu\text{g}/\text{m}^3$. Air containing higher levels of particulate must be filtered to bring particulate levels within the guidelines. ASHRAE Standard 62-1999 (*Addendum to Ventilation for Acceptable Indoor Air Quality*) recommends that, in accordance with the Clean Air Act of 1987 (i.e., USEPA's NAAQS), levels of respirable particulate (particles of less than 10 microns aerodynamic diameter) not exceed 50 $\mu\text{g}/\text{m}^3$ in outdoor air entering a building.

All of the indoor airborne respirable particulate concentrations measured were less than 50 $\mu\text{g}/\text{m}^3$.

Carbon Dioxide

Carbon dioxide concentrations measured by Clayton indoors in the building ranged from 420 to 680 parts per million of air (ppm). The outdoor carbon dioxide concentration ranged from 410 to 450 ppm over the 3-day evaluation. The accuracy of the direct-reading instrument used by Clayton is ± 50 ppm.

ASHRAE Standard 62-1999 recommends indoor carbon dioxide concentration of not more than 700 ppm above the outdoor carbon dioxide concentration. Based upon the outdoor levels measured over the 3-day evaluation, the recommended upper limit for indoor carbon dioxide concentrations within the building would be calculated as approximately 1,110 to 1,150 ppm. As such, the interior carbon dioxide concentrations measured by Clayton were less than the ASHRAE Standard 62-1999 upper limit, thereby suggesting an adequate supply of outdoor air to the building.

Carbon dioxide is a product of human respiration and a surrogate for various occupant-generated indoor contaminants. Carbon dioxide does not present a health hazard at these relatively low levels; however, concentrations which exceed the ASHRAE Standard 62-1999 upper limit generally are indicative of insufficient outdoor air ventilation (i.e., outdoor airflows below 15 cubic feet per minute [cfm] per occupant). The OSHA PEL for carbon dioxide exposure is 5,000 ppm as an 8-hour time-weighted average (TWA).

Carbon Monoxide

Carbon monoxide was not detected above 1 ppm at any of the indoor measurement locations. Likewise, carbon monoxide was consistently measured at 1 ppm at the Wall Street outdoor sampling location. The accuracy of the direct-reading instrument used by Clayton is ± 3 ppm.



Carbon monoxide is a colorless, odorless gas produced by the incomplete combustion of solid, liquid, and gaseous fuels. In the absence of indoor sources, indoor carbon monoxide concentrations are generally similar to outdoor concentrations. ASHRAE Standard 62-1999 recommends an upper limit for carbon monoxide of 9 ppm as an 8-hour average, and 35 ppm as a 1-hour average. The OSHA PEL for carbon monoxide exposure is 50 ppm as an 8-hour TWA.

Dry Bulb Temperatures

The outdoor range of air temperatures over the 3-day evaluation, as measured on Wall Street, was 71 to 75 °F. Dry-bulb temperatures measured within the building ranged from 67 to 78 °F, with one exception. The temperature in the mechanical area of subgrade level E was 76 to 82 °F.

ASHRAE Standard 55-1992 recommends indoor summer-season temperature lower and upper limits for occupant comfort of approximately 73.0 °F and 79.0 °F (when indoor relative humidities are approximately 50 percent). As such, the temperature ranges measured within the building were within the ASHRAE Standard 55-1992 upper and lower limits for comfort.

Relative Humidity

Indoor relative humidity ranged from 42 to 57 percent. The outdoor relative humidity level over the 3-day evaluation ranged from 67 to 76 percent. Clayton regards the broad range of indoor relative humidity of 30 to 60 percent as the most acceptable for occupant comfort. As such, relative humidity levels measured within the building were determined to be within these acceptable ranges.

Indoor relative humidity levels above 60 percent can promote indoor microbial growth. Wintertime relative humidity levels in the 20 to 30 percent range are marginally acceptable, but may cause discomfort to sensitive individuals. Humidity below 20 percent is less acceptable because of the effect of dry air on both the mucous membranes and the skin.

3.2 AIRBORNE FIBER CONCENTRATIONS

Clayton collected one area air sample for airborne fiber concentrations per floor evaluated. Generally, the air samples were collected in proximity to the main elevator lobby of each floor. Bankers Trust occupies floors 2 through 7, Mezzanine Two, and subgrade levels A and C. Sampling locations on these floors were determined by a Bankers Trust building engineer.

The sampling and analysis protocol for the collection of area air samples for airborne fibers was conducted in accordance with NIOSH Method 7400, A Rules. Samples were collected using 25-millimeter (mm) 0.8-micron (µm) mixed cellulose ester filters (MCEF) and high-volume air sampling pumps calibrated with a flowrate of approximately 13 liters per minute. A minimum volume of approximately 1,200 liters of air was collected for



each sample. Analysis of the air samples was conducted by PCM following NIOSH Method 7400, A Rules.

Analytical results of the air samples range from less than the analytical detection limit of 0.002 fibers per cubic centimeter of air (f/cc) to 0.004 f/cc. These concentrations are below the OSHA PEL for airborne asbestos fibers of 0.1 f/cc based on an 8-hour TWA. The results were also less than the USEPA and New York City Department of Environmental Protection (NYCDEP) asbestos abatement clearance criterion of 0.010 f/cc.

NIOSH Method 7400 does not differentiate airborne asbestos fibers from other types of fibers. Analysis by transmission electron microscopy may be performed to verify the presence of asbestos in such samples. However, this additional analysis was not necessary at this time because all samples for airborne fibers collected by Clayton demonstrated airborne fiber concentrations of less than the EPA and the NYCDEP asbestos clearance criterion of 0.01 f/cc.

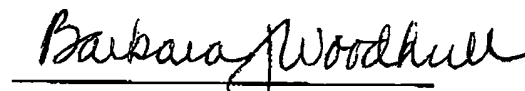
4.0 RECOMMENDATIONS

Based on the findings of our evaluation, Clayton does not have any specific recommendations at this time.

This report submitted by:


Paul J. Price, CIH, CSP
Senior Industrial Hygienist
Occupational Health and Safety

This report reviewed by:


Barbara J. Woodhull, CIH, CSP
Senior Project Manager
Occupational Health and Safety

October 5, 2001

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APPENDIX A

DIRECT-READING ENVIRONMENTAL MEASUREMENTS



Direct-Reading Environmental Measurements
collected at
14 Wall Street
New York, New York
for
Stellar Management

Clayton Project No. 40-02128.00

<u>Location</u>	<u>Dry-Bulb Temperature</u> (°F) ^a	<u>Relative Humidity</u> (Percent)	<u>Carbon Dioxide</u> (ppm) ^b	<u>Carbon Monoxide</u> (ppm)	<u>Total Particulate</u> (µg/m ³) ^c
<u>SEPTEMBER 20, 2001</u>					
Outdoor air, at Wall Street entrance (light rain)	73	73	450	1	40-55
Main Lobby	74-75	55	480-530	ND	34
31 st Floor, restaurant area	74-75	56	460-500	ND	8
31 st Floor, kitchen area	77	56	470	ND	10
30 th Floor, multiple tenants	73-75	49-51	470-500	ND	3
29 th Floor, Szold and Brandwen	75-76	55-57	420-490	ND	2
28 th Floor, Szold and Brandwen	75-76	56-57	440-520	ND	1
27 th Floor, Performance Specialist Group	75-77	50-53	450-480	ND	ND
26 th Floor, dTech	71-75	53-56	480-550	ND	2
25 th Floor, SOM	73-76	43-50	490-570	ND	4
24 th Floor, SOM	73-76	44-46	500-680	ND	1
23 rd Floor (partial), SOM space	73-75	45-49	480-520	ND	3



**Direct-Reading Environmental Measurements (continued)
collected at
14 Wall Street
New York, New York
for
Stellar Management**

Clayton Project No. 40-02128.00

<u>Location</u>	<u>Dry-Bulb Temperature (°F)^a</u>	<u>Relative Humidity (Percent)</u>	<u>Carbon Dioxide (ppm)^b</u>	<u>Carbon Monoxide (ppm)</u>	<u>Total Particulate (µg/m³)^c</u>
<u>SEPTEMBER 20, 2001</u>					
22 nd Floor, Neuman, Fitch, Altheim & Myers	75-77	45-47	480-520	ND	1
20 th Floor, HQ Global Workplaces (numerous sub-tenants)	74-77	44-50	460-490	ND	ND
<u>SEPTEMBER 21, 2001</u>					
Outdoor air, at Wall Street entrance	71	76	485	1	31
Main Lobby	72-73	65-67	490-510	ND	27
M-2 Floor, Bankers Trust and Wm. H. Sadler	74-77	45-47	560-610	ND	8
M-1 Floor, Barber Shop	75	51	560-570	ND	5
Subgrade, E Level	76-82	50-56	490-570	ND	30
C Level	73-74	49-51	450-480	ND	26
A Level, unoccupied (except for Bankers Trust security)	74-75	52-55	450-470	ND	38



Direct-Reading Environmental Measurements (continued)
collected at
14 Wall Street
New York, New York
for
Stellar Management

Clayton Project No. 40-02128.00

Location	Dry-Bulb Temperature (°F)^a	Relative Humidity (Percent)	Carbon Dioxide (ppm)^b	Carbon Monoxide (ppm)	Total Particulate (µg/m³)^c
<u>SEPTEMBER 21, 2001</u>					
23 rd Floor (partial), Fleet Securities and Quick and Reilly	69-71	46-47	470-480	ND	3
21 st Floor, unoccupied	72-73	57-60	420-430	ND	5
19 th Floor, unoccupied space and Primavera	72-74	49-51	420-430	ND	2
18 th Floor, Baum and Fordham and Gallagher	67-72	50-54	480-500	ND	1
17 th Floor, Stellar Management and multiple tenants	72-75	49-53	480-590	ND	5
7 th Floor, Bankers Trust	73-78	42-45	450-480	ND	9
6 th Floor, Bankers Trust and unoccupied space	73-76	47-79	460-470	ND	3
5 th Floor, Bankers Trust	72-74	49-51	450-480	ND	2
4 th Floor, Bankers Trust	71-72	50-52	440-480	ND	1
3 rd Floor, Bankers Trust	72-75	50-52	460-510	ND	1
2 nd Floor, multiple non-Bankers Trust tenants	73-75	52-55	490-530	ND	5



Direct-Reading Environmental Measurements (continued)
collected at
14 Wall Street
New York, New York
for
Stellar Management

Clayton Project No. 40-02128.00

<u>Location</u>	<u>Dry-Bulb Temperature (°F)^a</u>	<u>Relative Humidity (Percent)</u>	<u>Carbon Dioxide (ppm)^b</u>	<u>Carbon Monoxide (ppm)</u>	<u>Total Particulate (µg/m³)^c</u>
<u>SEPTEMBER 24, 2001</u>					
Outdoor air, at Wall Street entrance	73-75	67-70	410	1	115-140
Main Lobby	74-75	57-60	460-475	1	36
16 th Floor, multiple tenants, unoccupied, storage	74-76	49-55	455-480	ND	2
15 th Floor, TheStreet.com	72-75	51-54	450-650	ND	4
14 th Floor, TheStreet.com, unoccupied	73-75	47-52	430	ND	ND
12 th Floor, multiple tenants with unoccupied areas	73-75	50-52	430-480	ND	ND
11 th Floor, multiple tenants	71-74	49-53	490-570	ND	1
10 th Floor, Caulfield Harris	72-74	50-53	460-490	ND	ND
9 th Floor, multiple tenants	72-74	50-52	460-545	ND	ND



Direct-Reading Environmental Measurements (continued)
collected at
14 Wall Street
New York, New York
for
Stellar Management

Clayton Project No. 40-02128.00

<u>Location</u>	<u>Dry-Bulb Temperature (°F)^a</u>	<u>Relative Humidity (Percent)</u>	<u>Carbon Dioxide (ppm)^b</u>	<u>Carbon Monoxide (ppm)</u>	<u>Total Particulate (µg/m³)^c</u>
<u>SEPTEMBER 24, 2001</u>					
8A Floor, multiple tenants	74-77	45-51	455-630	ND	ND
8 th Floor, multiple tenants	72-76	44-49	440-530	ND	ND

^a degrees Fahrenheit

^b parts per million of air

^c micrograms per cubic meter of air

ND none detected

Temperature, relative humidity, carbon dioxide, and carbon monoxide concentrations measured using a calibrated TSI, Inc. Q-Trak IAQ Monitor, Model 8551.

Particulate concentrations measured using a calibrated MIE, Inc. *personalDATARAM*™, Model pDR-1000 Airborne Particulate Monitor.

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APPENDIX B

ANALYTICAL RESULTS OF AREA AIR SAMPLING FOR AIRBORNE FIBER CONCENTRATIONS

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**Analytical Results of Area Air Sampling for Airborne Fibers
at
14 Wall Street
New York, New York
for
Stellar Management**

Clayton Project No. 40-02128.00

Sample Number	Sampling Location	Sampling Period		Air Volume (liters)	Airborne Fiber Concentration (f/cc) ^a
		Start	Stop		
<u>SEPTEMBER 20, 2001</u>					
SM092001-01	29 th Floor, lobby, Szold and Brandwen	1010	1145	1235	0.004
SM092001-02	31 st Floor, lobby, Restaurant	1017	1150	1209	< ^b 0.002
SM092001-03	30 th Floor, lobby, Broker Network	1025	1200	1235	0.002
SM092001-04	28 th Floor, Szold and Brandwen, reception desk	1031	1215	1352	0.003
SM092001-05	27 th Floor, center of elevators, Performance Specialist	1037	1225	1404	0.003
SM092001-06	26 th Floor, lobby, dTech	1045	1228	1328.7	<0.002
SM092001-07	25 th Floor, SOM, south end of "partners area"	1240	1418	1264.2	<0.002
SM092001-08	24 th Floor, open elevator lobby area	1245	1424	1277.1	0.003
SM092001-09	23 rd Floor, hallway between SOM and Fleet Security, off main elevator lobby	1255	1428	1209	0.003

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Analytical Results of Area Air Sampling for Airborne Fibers (continued)
at
14 Wall Street
New York, New York
for
Stellar Management

Clayton Project No. 40-02128.00

Sample Number	Sampling Location	Sampling Period		Air Volume (liters)	Airborne Fiber Concentration (f/cc) ³
		Start	Stop		
<u>SEPTEMBER 20, 2001</u>					
SM092001-10	22 nd Floor, NFAM entrance lobby, right of elevator lobby	1302	1435	1209	0.004
SM092001-11	21 st Floor, unoccupied, reception area, contiguous to elevator lobby	1308	1441	1209	<0.002
SM092001-12	20 th Floor, HQ Global Workplaces, reception area, contiguous to elevator lobby	1313	1449	1248	<0.002
SM092001-13	19 th Floor, elevator lobby hallway	1453	1646	1469	<0.002
SM092001-14	18 th Floor, Fordham Financial and Alfred Gallagher and Baum, hallway near electrical closet	1500	1651	1431.9	<0.002
SM092001-15	17 th Floor, near Stellar Management, opposite men's restroom	1505	1654	1417	<0.002
SM092001-16	16 th Floor, elevator lobby hallway	1510	1657	1391	0.003

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Analytical Results of Area Air Sampling for Airborne Fibers (continued)
at
14 Wall Street
New York, New York
for
Stellar Management

Clayton Project No. 40-02128.00

Sample Number	Sampling Location	Sampling Period		Air Volume (liters)	Airborne Fiber Concentration (f/cc) ^a
		Start	Stop		
<u>SEPTEMBER 20, 2001</u>					
SM092001-17	15 th Floor, TheStreet.com, reception desk area	1523	1707	1352	0.003
SM092001-18	14 th Floor, TheStreet.com, reception area	1530	1714	1352	0.003
<u>SEPTEMBER 21, 2001</u>					
SM092101-21	12 th Floor, hallway off elevator lobby	0831	1025	1482	0.003
SM092101-22	11 th Floor, hallway off elevator lobby, outside Bow Street	0836	1028	1456	0.002
SM092101-23	10 th Floor, Caulfield, Heller, Harris & Ryan, reception area, off elevator lobby	0842	1031	1417	<0.002
SM092101-24	9 th Floor, hallway off elevator lobby, SOM side of floor	0849	1035	1378	0.004
SM092101-25	8A Floor, hallway just off elevator lobby	0855	1038	1339	0.003
SM092101-26	8 th Floor, hallway just off elevator lobby	0902	1042	1300	0.003



Analytical Results of Area Air Sampling for Airborne Fibers (continued)
at
14 Wall Street
New York, New York
for
Stellar Management

Clayton Project No. 40-02128.00

Sample Number	Sampling Location	Sampling Period		Air Volume (liters)	Airborne Fiber Concentration (f/cc) ^a
		Start	Stop		
<u>SEPTEMBER 21, 2001</u>					
SM092101-27	7 th Floor, Bankers Trust, midway on Pine Street side	1058	1254	1508	<0.002
SM092101-28	6 th Floor, Bankers Trust, corner of Nassau and Pine Street	1106	1259	1469	<0.002
SM092101-29	5 th Floor, Bankers Trust, midpoint on Broadway side, third column line in	1111	1312	1560.9	<0.002
SM092101-30	4 th Floor, Bankers Trust, corner of Nassau and Pine Street, three columns in from Nassau, three columns towards Wall Street	1118	1326	1664	0.002
SM092101-31	3 rd Floor, Bankers Trust, corner of Nassau and Pine Street	1126	1339	1729	0.002
SM092101-32	2 nd Floor, Bankers Trust, corner of Nassau and Pine Street	1350	1617	1911	0.002
SM092101-33	M2 Floor, Bankers Trust, middle of Nassau, towards Pine Street	1414	1625	1703	0.002



Analytical Results of Area Air Sampling for Airborne Fibers (continued)
at
14 Wall Street
New York, New York
for
Stellar Management

Clayton Project No. 40-02128.00

Sample Number	Sampling Location	Sampling Period		Air Volume (liters)	Airborne Fiber Concentration (f/cc) ^a
		Start	Stop		
<u>SEPTEMBER 21, 2001</u>					
SM092101-34	1 st Floor, lobby, at service door to right of M1 stairwell, towards Barber Shop	1150	1515	2665	0.002
SM092101-35	A Level, Bankers Trust, corner of Nassau and Pine Street (unoccupied)	1437	1633	1508	0.002
SM092101-36	C Level, Bankers Trust, Nassau side, three columns from Wall Street	1452	1640	1404	0.002
SM092101-37	E Level, mechanical area	1508	1644	1248	<0.002
SM092101-38	M1 Floor, Barber Shop, hallway	1526	1710	1352	0.003

^a fibers per cubic centimeter of air

^b less than

Analytical Method: NIOSH 7400, A Rules
 Limit of Detection: 2,000 fibers per filter

Address: 14 WALL STREET

Bulk Samples
PLM

Yes

No

Number of Negative ($\leq 1\%$) Samples _____

Number of Positive ($> 1\%$) Samples _____

Air Samples

Yes

No

PCM

Number of Samples Collected ($\leq 0.01\text{f/cc}$) 36

Number of Samples Collected ($>0.01\text{ f/cc}$) 0

TEM

Number of Samples Collected ($\leq 70\text{ s/mm}^2$) _____

Number of Samples Collected ($>70\text{ s/mm}^2$) _____