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Indoor Environmental Survey

At

**176 Broadway
New York, New York**

for

**John J. Grogan Associates
360 Lexington Avenue
New York, New York 10017**

Laboratory Data Sheets

③

Recommendations

These conditions as observed do not necessarily pose a health risk to occupants of the building as long as the HVAC systems are not operated. When the system is turned on however, these contaminants would be blown out into the apartments.

The one concern that should be further investigated at this time is the presence of mercury in the sample results. Mercury is a heavy metal which is liquid at room temperature, and can form vapors. These vapors if inhaled can lead to serious neurological problems. To evaluate this risk air samples should be collected both inside the duct work, and in side the apartment area.

Based on all these results, it is not advisable to start up the HVAC system. Each system should be professionally cleaned, starting with the entire machine room, air intakes, and return plenum, and then working outward down the supply ducts. All sections of flex duct should be removed, and replaced with new materials.

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Introduction:

At the request of Mr. Tom Hinckly, S & B representatives conducted a survey of the building located at 176 Broadway, in New York, New York. This survey was conducted to determine if any of a variety of contaminants known to have been released from the World Trade Center disaster were present in HVAC systems of the building.

Summary:

On 29 April 2002, Mr. Rohde of S & B Environmental conducted a survey of apartments 4-D, PH-B 10-A, 3-D, and 10-E. During the survey, samples were collected from one supply point in each apartment. At each sample point, asbestos, lead, mercury, pulverized glass, and molds, and fungus were evaluated. This survey was a preliminary, limited evaluation.

The samples for lead, yielded results ranging from 160 to 1085 micrograms per square foot. These are moderately high readings for lead.

The asbestos samples yielded results ranging from <3,165 to over 308,662 structures per centimeter squared on the inside duct surfaces. These reading are indications of moderate to severe contamination inside the duct system.

The mercury samples yielded results ranging from 2.25 to 28.5 micrograms per foot square foot on the inside duct surfaces. These reading are indications of moderate to severe contamination inside the duct system.

The pulverized glass samples yielded results ranging from 1 to 16 % in the dust inside the ducts. These reading are indications of moderate to severe contamination inside the duct system.

The mold and fungus readings found several common materials, as well as several that could not be identified do to deformity, or decay. These results are typical, and do not alone present a condition of concern.

The following table presents the findings by apartment, and sample type.

Table 1 - Results of sampling

Apartment	Asbestos (str/cm ²)	Lead (ug/ft ²)	Mercury ug/ft ²	Pulverized Glass (%)	Molds & Fungus
4-D	<3,165.76	1085	28.5	16	Present
PH-B	4,748.84	214.2	14.7	8	Present
10-A	63,315.20	553.0	5.90	4	Present
3-D	5,144.36	160.2	2.25	1	Present
10-E	308,662.00	591.4	3.42	2	Present

Overall, the sample results indicate serious contamination of the HVAC duct work. This survey was very limited in scope, and without further sampling, it should be assumed that similar levels of contamination will be present in other HVAC systems through out the building.

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Date of Survey: 15 March & 27 March 2002 *incorrect date*

Date of Report: 2 April 2002