



HUB TESTING LABORATORY, INC.
Environmental Testing Service

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June 26, 2001

Mr. Roger Young
Executive Director of Business

City of Haverhill
4 Summer Street
Room 104
Haverhill, MA 01803-5875

RE: Consentino School, Asbestos and Bacteria Abatement

Roger:

As you know, the original complaint we received from the Consentino was for an odor in room 42. It was determined that the problem stemmed from water leaks and mold growth. We were called in to the Consentino again because there was concern that the odor was spreading. The principal indicated that the odor had spread to the hall and rooms 21 and 22. However upon inspection it was found that there were additional holes in the dropped ceiling that appear to be as a result of a roof leak. It seems clearly that this situation is not limited to room 42. Over concern that the potentially pathogenic species of fungi identified as aspergillus versicolor might be present air samples were collected. Fortunately this species was not identified in the sample however the presence of other fungi were noted and the existence of damaged ceiling tiles and the odor would indicate that the roof leak may have caused a similar problem to that in room 42 in these rooms.

The purpose of this memorandum is to outline a methodology for abatement of asbestos and biological contamination. The standard method of abating biological contamination is to remove all the materials exposed to the moisture that could sustain the growth of fungi and to replace it with new material. In this instance this method would require removal of most or all the roof insulation (fiberglass) and possibly the roofing this would be extremely burdensome.

We propose an alternative method of mitigation, which would be much less expensive and would allow the continued use of the building. However this method is more risky than total removal because it may not produce the needed results.

First, the extent of the contamination and odor would be defined and an estimate of the costs established.

The area/areas of the building effected would be isolated by means of erecting two distinct layers of polyethylene sheeting on all the walls to build a reasonably air tight envelope. The area would be "flushed" and negative air pressure instituted so that it would comply with state and federal regulations for asbestos removal.

All ceiling tiles including the damaged and stained tiles will be removed and disposed of as asbestos waste. Loose and spilled materials will be cleaned and all visible stained and odor-containing fiberglass will be removed.

The spray applied fireproofing will be encapsulated and stabilized with a bridging encapsulant.

The area will be visibly inspected and final clearance testing performed.

The inside layer of poly will be removed, the area treated with a fungicide and negative air machines along with dehumidifiers will be set-up to exchange the air and remove moisture from the areas of concern, this may be a period of a few weeks.

Moisture tests will be performed and microbial samples taken periodically to determine level of moisture and the fungi count.

When the area is acceptable, plastic sheeting will be taken down; an ozone generator to help clear the air and the area turned over to the school for the installation of a drop ceiling.

We would be pleased to hear of your reaction to this proposal and if you feel it is suitable was can start preparing bid documents and specification in conjunction with Jonathan Goldfield.

Sincerely,

A handwritten signature in cursive script that reads "Susan Boyle". The signature is written in black ink and is positioned above the printed name and title.

Susan Boyle
Vice President