

Air Filter and Bulk Insulation
Analysis for Asbestos
Case #48106-3



PLAINTIFF'S EXHIBIT

SWB-173

Bell Laboratories

600 Mountain Avenue
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Phone (201) 582-3000

March 6, 1979

Messrs: P. Costa
R. Wenz
New York Telephone Company

Dear Phil & Ralph:

The two bulk insulation samples and four filter cassettes you collected at 120 Hicksville Road, Massapequa have been analyzed for asbestos.

The two bulk insulation samples labelled "#1 and #2 Basement 120 Hicksville Road Massapequa" gave identical results. An x-ray diffraction scan of the samples revealed the major crystalline material present was chrysotile. An optical examination showed many asbestiform birefringent fibers. The presence of fibers and the chrysotile crystalline structure means this material contains asbestos.

The four filters were analyzed by counting all fibers greater than 5 μ m long seen by phase contrast optical microscopy at 400x. This is the method recommended by the National Institute of Occupational Safety and Health (NIOSH). Based on the optical counts and your sampling data the results were:

<u>Sample</u>	<u>Volume Air (L)</u>	<u>Fibers Counted*</u>	<u>Fibers/cm³</u>
#1 Pump#1 Basement 120 Hicksville Rd	120	4	.03
#1 Pump#2 120 Hicksville Rd	120	2	.01
#3 Pump#1 120 Hicksville Rd	120	18	.12
Blank**	—	10	—

* 100 Microscope fields (.011 mm²/field) were counted. The filter area was 855 mm².

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** This filter was bent, torn and very damaged. Optical count results may be unreliable.

If you have any questions about this analysis please let me know.

C. P. Lichtenwalner

MH-7885-CPL-djh

C. P. Lichtenwalner

Copy to

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