



7979 GSRI AVE. • BATON ROUGE, LA 70820

ASBESTOS FIBER COUNT ANALYSIS

for

DOW CHEMICAL COMPANY
Post Office Box 150
Plaquemine, Louisiana 70764

ATTENTION: Jackie Paul

January 16, 1987

DO 100479
CONFIDENTIAL



7979 GSRI AVE. • BATON ROUGE, LA 70820

DOW CHEMICAL COMPANY
Plaquemine, Louisiana

January 16, 1987

Seven (7) filter cassette samples were received on January 6, 1987 from Dow Chemical Company for asbestos fiber count. Fibers larger than 5 microns in length were counted by means of phase-contrast microscopy at a magnification of 400X. The procedure recommended by NIOSH Method 7400A was followed.

<u>Sample ID.</u>	<u>Fibers (>5um) Observed</u>	<u>No. of Fields Observed</u>	<u>Fibers per Filter</u>	<u>Volume of Air (L)</u>	<u>Fibers (>5um) per c.c. of Air</u>
Blank	2	100	981	-----	-----
03474 16 - 2 - 14		100	6,866	490 686.0	.010
03475 9 - 2 = 7		100	3,433	490 62.5	.002
03476 9 - 2 = 7		100	3,433	490 73.0	.005
✓ 07409 67 - 2 = 65		100	31,879	410 960.0	.033
✓ 07410 14 - 2 = 12		100	5,885	410 960.0	.006
✓ 07413 #1	103	33	152,098	410 960.0	.158

#1 NOTE: Blank correction made at the fibers/filter calculation.

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Philip W. West
Philip W. West, Ph.D.
Laboratory Director



SAMPLE ANALYSES

for

DOW CHEMICAL COMPANY
Post Office Box 150
Plaquemine, Louisiana 70764

ATTENTION: Jackie Paul

January 23, 1987

DO 100481
CONFIDENTIAL

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87-0379



DOW CHEMICAL COMPANY
Plaquemine, Louisiana

January 23, 1987

One (1) filter cassette sample was received at West-Paine Laboratories, Incorporated January 6, 1987 for the analysis of asbestos content. This sample was analyzed by scanning electron microscopy (SEM) at a magnification of 2,000X to determine the size and quantity of fibers present. Each fiber observed was identified using energy dispersive x-ray spectrometer (EDS) analysis according to NIOSH method 7402. The result of this analysis is listed on the attached data sheet.

Kenneth J. Hayes
Microscopy Laboratory Supervisor

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SAMPLE ID: 07413

This sample could not be quantified due to the high concentration of fibrous and non-fibrous organic material present. Four (4) photomicrographs were taken for illustration. A log for these pictures is provided below.

- (1) Secondary electron image at 500X showing several large and small organic fibers. A high concentration of non-fibrous organic and inorganic particles are also present.
- (2) Backscattered electron image at 500X showing the same field as shown in photo #1. Inorganic particles exhibit high contrast bright images. Organic particles exhibit low contrast subdued images.
- (3) and (4)

Secondary electron images at 2000X showing two fields of organic fibers.

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