PLAINTIFF'S
EXHIBIT
WRG-487a

27224

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

NATIONAL CENTER FOR
URBAN AND INDUSTRIAL HEALTH
1014 BROADWAY
CINCINNATI, OHIO 45202

October 17, 1968

REFER TO:

Mr. Benjamin F. Hake, Director
Division of Air Pollution Control
and Industrial Hygiene
State Department of Health
Helena, Montana 59601

Dear Ben:

Enclosed are the last of the results from our survey of the W. R. Grace Co. Zonolite plant at Libby, Montana. The tremolite analysis by X-ray diffraction took some time since the vermiculite had a peak in the same area as the principle peak of tremolite. As you can see the airborne dust collected on Hi-Vol filters was high in tremolite while the product contains very little tremolite. This indicates that whatever tremolite is present in the ore is ending up in the air. The cyclone waste would probably be higher in tremolite if a more efficient collector were used.

Please let me know if I can give you any further assistance with this problem.

Sincerely yours,

Jerry

Jeremiah R. Lynch
Assist. Chief, Environmental
Activities
Field Studies
Occupational Health Program

Enclosures

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Hi-Vol Filter Identification

Field No.	Location	Total Dust mg/m^3	Tremolite %	Tremolite mg/m^3
38-023	Dry Mill, 1st floor	26.4	60	14.0
38-004	Dry Mill, 3rd floor	22.3	74	16.5
38-001	Dry Mill, 3rd floor	27.1	73	19.8
38-011	Dry Mill, 4th floot	12.0	78	9.4
38-141	Vermite Plant	2.5	71	1.8
38-020	Outside-near office	1.2	80	1.0

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