FILE NAME: Talc (TALC)

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10 December 1974

Dr. J. P. Simko, Jr.
Colgate-Palmolive Company
909 River Road
Piscataway, New Jersey 08854

Dear Dr. Simko:

Using the electron microscope we have analyzed three samples of talc identified as Samples A, F and S.

Sample A contained two fibers of amphibole which we believe to be tremolite. Also in sample A there were indications of talc ribbons and talc shards. By talc ribbons we mean thin plates of talc which have a greater than three to one axial ratio and therefore appear, just as ribbons appear, to be long thin flat plates of talc which are much greater in one dimension than in the second dimension. There was also some indication of an organic film present.

In sample F, we found large plates of talc. In general sample F showed larger plates of talc than did sample A. There was also an extremely heavy organic film but no evidence of talc ribbons or talc fibers. These organic contaminants are soluble in isopropanol and bubble up when struck by the electron beam. It was extremely difficult to analyze this talc because of the high concentration of organic material on the surface of the grid.

Sample S showed some talc shards, which may be described as thin bundles of talc ribbons, which are extremely small. These ribbons are frequently rolled and therefore might be confused for chrysotile bundles but they obviously are not, since they show bends and contours which, ordinarily, chrysotile does not show. There were also some talc ribbons and other silicates present which were long and fibrous, and frequently broken or bent at sharp angles.

In conclusion, then, the only asbestiform minerals that we found were in sample A and were two amphibole fibers. This is a rather low number when you consider the area we looked at. However, it may be indicative of trace amounts of amphiboles

in the talc mine. Samples F and S showed no amphiboles but did show larger plates of talc than Sample A, which sample F also showing high amounts of organic contamination. Thank you for consulting McCrone Associates. If there are any questions concerning this report or the data contained herein, please feel free to contact me.

Very truly yours,

Gene R. Grieger
Senior Research Physicist

GRG:nkn
enclosures
ref:MA4426

MEMO FROM
GENE GRIEGER

Colgate – Palmolive
Sample A
50KX
#1



MEMO FROM
GENE GRIEGER

Colgate – Palmolive
Sample A
#2
50KX

CPC-FISHBAINTRSCPT00001337

McCRONE 0161

MEMO FROM
GENE GRIEGER

Colgate - Polmolive
Sample A - 1
SAED

Tremolite

MEMO FROM
GENE GRIEGER

Colgate - Polmolive
Sample A - 2

SAED

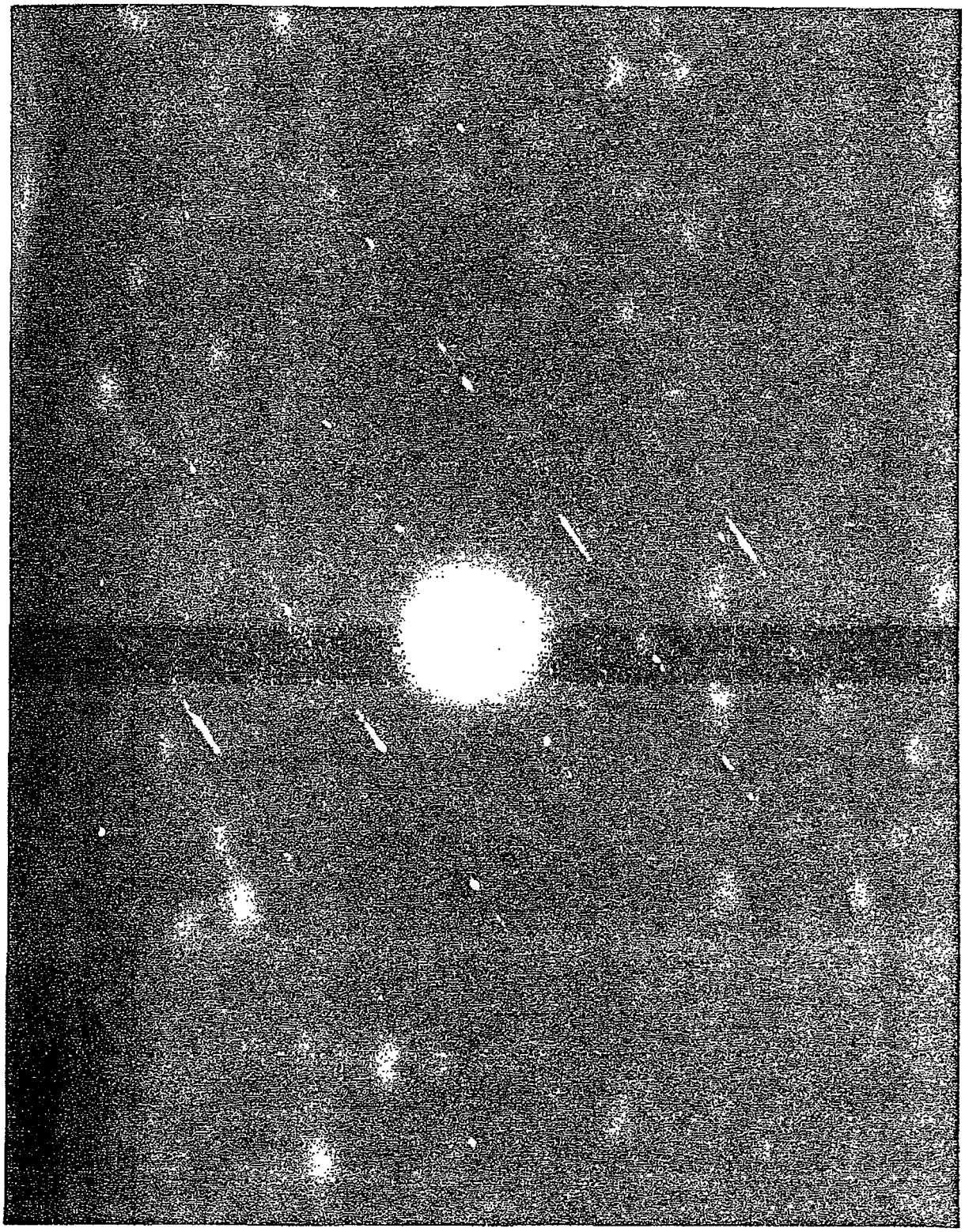
Tremolite

CPC-FISHBAINTRSCPT0001338



Walter C. McCrone Associates, Inc. Sample A-1 SAED

CPC-FISHBAINTRSCPT00001339

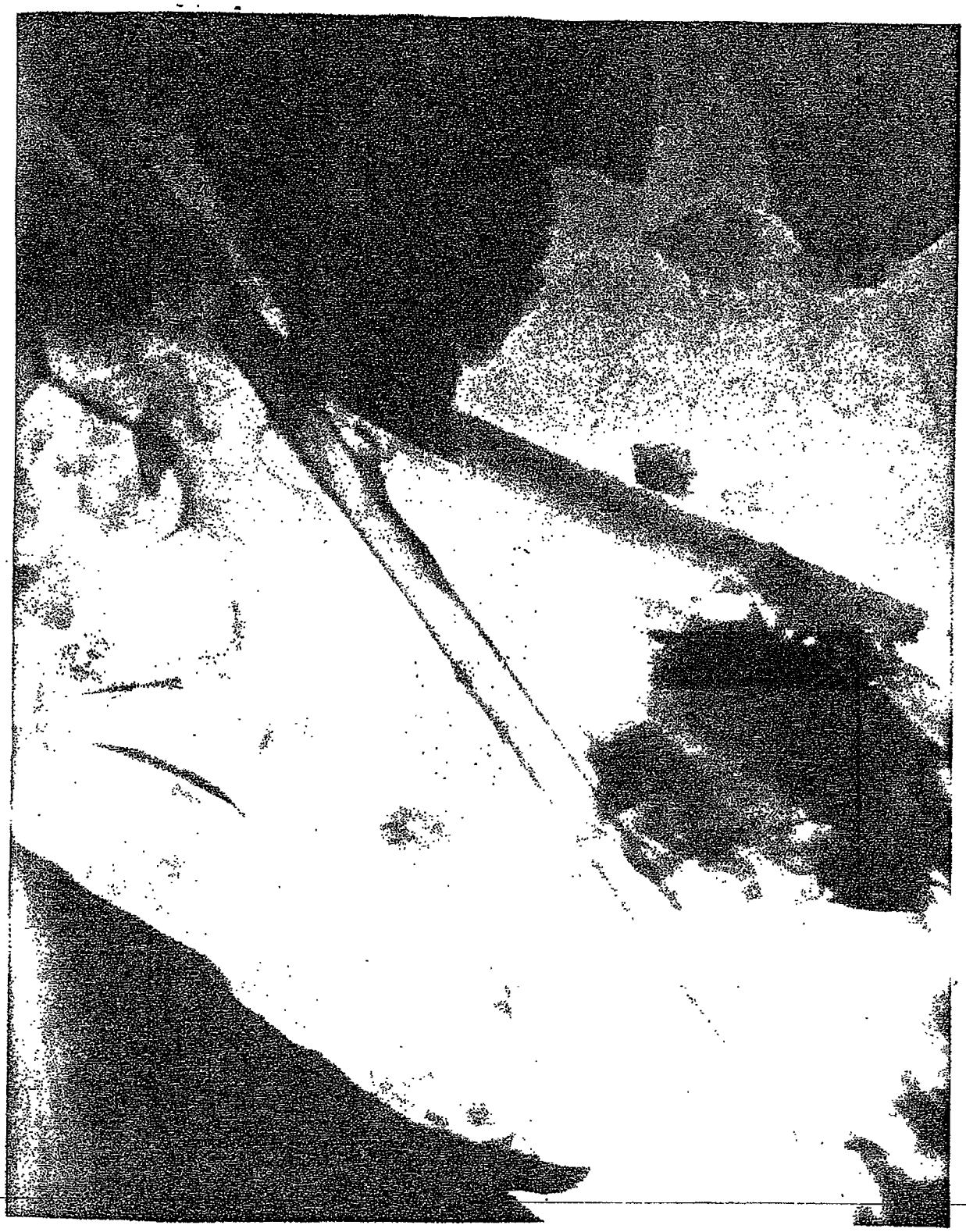


Walter C. McCrone Associates, Inc. Sample A-2 SAED Tremolite



Walter C. McCrone Associates, Inc. Sample A, no. 1 (50KX)

CPC-FISHBAINTRSCPT00001341



Walter C. McCrone Associates, Inc. Sample A, no. 2 (50KX)