



Subject: Landfill Dry Scrap Project ✓

April 24, 1974

: NOT PRODUCED

TO: D. W. JOHNSON
H. J. VAN NOORDWYK
R. E. EDWARDS

FROM: L. F. KRANK

This report details the data obtained from the author's recent trip to the Washington County Landfill.

I arrived at the fill about 6:45 a.m. and immediately thereafter the first Space Center trucks arrived delivering 3M scrap. The purpose of this trip was to determine what scrap 3M is presently landfilling and from where it comes. The handling problems-etc. were noted to help us decide how to feed these scraps to an incinerator with the least problems should we decide to incinerate instead of landfilling.

Typical 3M scrap is naturally paper plus scrap from what we manufacture; that is, tape, film, sandpaper, other abrasives, duplicating paper, non-stick paper-etc. (Also sludge and ash). A precise report has been written by E. D. Nelson and should be reviewed for specific weights, typical 3M scraps-etc.

Samples and pictures were taken by myself and will be included in this report once developed and analyzed.

Several areas of interest concern handling problems with 3M scrap. The first obvious problem concerns the huge sandpaper and film stock rolls that are dumped. Whether being incinerated or dumped, the stockroll sizes presents a big problem. Therefore one either needs to unroll the film before incineration or cut the film off the cores. During landfilling many trucks get hung up on the rolls which is also a problem.

Another handling problem occurs with the fine-powderized dye that 3M dumps (i.e. blue and red dyes). These powders are so fine that they scatter without any agitation. Then they become irritations to the handler, drivers-etc. More care should be taken with this powder before dumping it.

Page 1 of

3M 028526

**Exhibit
1105**

State of Minnesota v. 3M Co.,
Court File No. 27-CV-10-28862

3MA00276827

1105.0001

NOT PRODUCED

The sludge that 3M landfills may pose a pollution problem to the fill (especially the FeO_2). The oxide is very slimy and slightly odorous which may be a handling problem also.

In summary, the 3M scrap is typical manufactured by-products and final product scraps. One more observation day will be planned for April 24, 1974 at the landfill but then I see no further need to continue screening the landfill.

Recommendations:

1. run dry ash content on the 3M scrap.
2. design a continuous feeder to an incinerator.
3. design ways to better handle
 - a. sludge
 - b. powdered dye
 - c. huge film and sandpaper rolls

prior to disposal.

L.F. Frank
LFK/jf

3M 028527

3MA00276828