

**Internal Correspondence**

File: Oakdale  
Incinerator Ash

cc: M. T. Elnabarawy - 2-3E-09  
R. A. Paschke - 21-2W-05

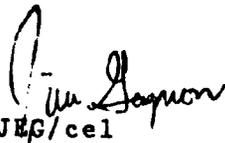
To: D. M. SCHNOBRICH - ENVIR. ENG. & POLL. CONT. - 21-2W-05  
From: J. E. GAGNON - ENVIRONMENTAL LAB/EE & PC - 2-3E-09  
Subject: OAKDALE INCINERATOR ASH OIL & GREASE EXTRACTS [REDACTED]   
Date: JUNE 27, 1984

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High oil and grease values in extracts of incinerator ash from Oakdale "soil" samples were subjected to IR analysis (CRL Request C9979) to determine what the composition of the extracted material may be. Of the three extracts submitted, they all were a complex mixture of at least three different components. Each sample had dimethyl silicones, some aliphatic hydrocarbons (typical oil and grease hydrocarbons), and ester carbonyls.

Sample 2 had a strongest absorption which appears to be an ortho-phthalate ester (plasticizer). Sample 1 had strong absorptions indicative of a fluorochemical. Insufficient material was available for identification of the fluorochemical. The strongest band in Sample 3 was a polyether band, and there is a very slight indication this may be a nonionic surfactant type material.

Questions concerning this request can be directed to me at 778-5294.

  
JEG/cel

**Exhibit  
1304**

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