

MEMORANDUM

To File

Date May 10, 1972

From M.E. Lane

Ref. _____

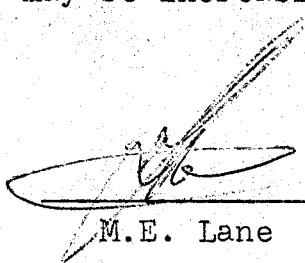
Subject Use of Ferrous Sulphate in Waste Treatment

A series of tests were carried out to study the effect of increasing quantities of Ferrous Sulphate on the Arsenic contents of the #8 Agitator Discharge Solution.

<u>Sample</u>	<u>As(ppm)</u>	<u>% As Reduction</u>
#8 Agitator Discharge	17.2	-
#8 Agitator Discharge + 0.25 lb/t. FeSO_4	15.0	13
#8 Agitator Discharge + 0.50 lb/t. FeSO_4	9.5	45
#8 Agitator Discharge + 0.75 lb/t. FeSO_4	6.9	60
#8 Agitator Discharge + 1.00 lb/t. FeSO_4	5.5	68
#8 Agitator Discharge + 1.50 lb/t. FeSO_4	2.4	86
#8 Agitator Discharge + 2.00 lb/t. FeSO_4	1.7	90

Assay Department unable to determine the Iron content of solutions. It is feared that Iron content may be increasing with increased FeSO_4 additions.

MEL/mw



M.E. Lane
Mill Engineer