

10/23/70
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AUTHORITY FOR EXPENDITURE

EXECUTIVE REVIEW **\$230,000.00** INCLUDED IN DIVISION FORECAST
 HAD NOT INCLUDED IN DIVISION FORECAST

PROJECT # **70-242**
 ORIGINATING CODE # **9874**

DATE **October 23, 1970** TIME REQUIRED TO COMPLETE **10 Months** FILE # **C-1684**

FORECAST DISBURSEMENTS **\$10,000-1st Q., \$60,000-2nd Q., \$150,000-3rd Q., \$5,540-4th Q.**

Chemolite Sludge Dewatering Facility Sludge Dewatering

DIVISION **Staff Manufacturing** CHEMOLITE 0671 0679

DESCRIPTION
Design, purchase and install a vacuum filtration system to dewater waste sludge generated at the Chemolite waste water treatment plant.

CHARACTER OF WORK
 VOLUME EXPANSION COST REDUCTION QUALITY IMPROVEMENT PROJECT DEVELOPMENT SAFETY
 MAINTENANCE OTHER **Pollution Control**

JUSTIFICATION
 An improved method of disposal is needed to handle the waste sludge produced at Chemolite. The present method of dumping wet sludge into landfill areas on the site cannot be continued because land area is becoming limited and because of the potential pollution from organic contaminants leaching into the underground water supply serving our plant wells. This problem together with the large volume and high water content make it impractical to haul the sludge to off-site public or private landfill areas.

Currently about 2.5 tons/day of sludge is generated at the waste treatment plant. This will increase to 5 tons/day when the new Incinerator starts operation. Current sludge is primarily iron oxide and paper pulp from the Phase I primary treatment unit and waste activated sludge from the Phase II treatment process. It is accumulated in two holding tanks until they are full and then hauled by truck as 42 solid to a large open sludge pit. The existing pit has capacity for only another 12 months.

LINE	DESCRIPTION	AMOUNT
20	Building Construction	40,000
15	Vacuum Filter and Mixer	50,000
15	Pumps, piping, conveyor and building	70,000
15	Light and power	40,000
TOTAL		220,000

APPROVED: **M. H. Sames** 10/23/70

PREPARED BY: **D. E. Pappell** 10/23/70
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C. B. Larson 10/23/70
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H. E. Warden 10/23/70
D. [Signature] 10/23/70

(189) AB

Exhibit
1085
 State of Minnesota v. 3M Co.,
 Court File No. 27-CV-10-28862