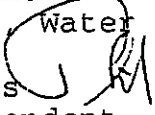




**GWINNETT COUNTY**  
Department of Public Utilities  
Water Reclamation  
(770)822-7171

MEMORANDUM

TO: Robert Sheldon  
Director, Water Reclamation

FROM: Phil Mees   
Superintendent, Crooked Creek W.R.F.

SUBJECT: Polymer Optimization Technology

DATE: August 26, 1998

During the month of July 1998 we tested a Streaming Potential System made by Aquatrol and provided by Sentrol Systems, Inc. of Lilburn. This system was installed on the centrate stream from the centrifuge dewatering operation and measured the effectiveness of the polymer dosage. During this trial, the operators found the system to be an effective tool for optimizing the operation, saving chemicals.

The data collected for the month shows a significant reduction in the cost of polymer per ton of solids dewatered (Solids disposal spreadsheet attached). The polymer cost for July was \$18.80/ton while the cost for the previous six (6) months averaged ~~\$24.79~~/ton. If this savings is typical and based on the monthly average of 500 tons, the chemical cost savings would be about \$3,000.00 per month. This would provide for pay back on the purchase of such a system within a few months.

Please find my requisition for the purchase of this system attached. The normal purchase price is \$8,500.00 as stated in the offer from Sentrol Systems but they are eager to install a system in our area for reference and I believe we should take advantage of this offer.

If you have any questions or require additional information, please advise.

Attachments: Purchase Requisition w/Technical Specifications  
Proposal from Sentrol  
Operating data