



Case Study

Saving \$1000s in Lime Sludge Disposal

Claude H Dyal WP, City of Cocoa, Florida

The Challenge

- Solids content up to 80% daily
- Frequent maintenance on existing PC pumps
- Downtime due to pump failure

The Discflo Solution

- Minimal maintenance in four years' operation
- Able to pump up to 80% solids due to unique pump design
- Greater efficiency due to uptime

The Claude H Dyal Water Plant at the City of Cocoa in Florida is saving \$1000s in its lime sludge disposal operations, thanks to Discflo pumps. The sludge is highly abrasive and has a solids content up to 80%, making it one of the toughest materials to pump.

The first Discflo unit, a model 403-2HHD pump with a 28% Norchrome high head Discpac, was installed on a trial basis in the summer of 1993. It was used exclusively to pump lime sludge with a 30-60% solids content. After ten months' operation, the pump was disassembled and inspected by the City's maintenance and engineering personnel; it showed no signs of wear on the casing or the Discpac.

The pump replaced two progressive cavity pumps that required frequent maintenance. Says City of Cocoa Superintendent, Gary L Heller: "During the course of normal operation, the rotor/stator assembly in the progressive cavity pumps would start wearing out after 2-3 months."

The City of Cocoa is very satisfied with the performance of the Discflo system. The original pump is still in operation, however, the solids being pumped now range from 60-80% on a daily basis. "The only maintenance required over the past four years (reported 1997) has been packing replacement," adds Gary Heller. "We have not only saved thousands of dollars by the use of the Discflo pumps, but the downtime has been greatly reduced, therefore improving the overall efficiency of our lime solids removal operation."

Six additional Discflo pumps have been installed at the Claude H Dyal Water Plant over the past 10 years. All are performing well, reports Bert Gerber, Discflo's distributor in Florida.

Update August 2000

Reported in August 2000, the Cocoa pumps are still running great. There has been no wear since they were installed. Packing has been replaced on the first pump, installed in 1994, which moves lime sludge to trucks. Three pumps feed lime sludge to a rotary vacuum dryer, and another three feed ferric sulfate to belt filter presses. The City will buy two more Disc pumps in October 2000 for lime slurry applications.



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