

Flygt N-Impeller Bring City of St. Clair's WWTP Relief

PROBLEM: The city personnel were experiencing increased labor cost due to their main pumps clogging on rags and stringy debris. This problem coupled with high repair and energy cost made the City of St. Clair WWTP take action. After the city consulted with three different wastewater pump distributors, the Flygt N-Impeller dry pit submersible was selected.

SOLUTION: The Flygt dry pit submersible offered advantages which included a non-clogging N-Impeller design, much improved hydraulic efficiencies and continuous operation in dry or submerged conditions. Flygt's closed loop cooling system allows the motor runs to cool even in continuous or variable speed applications with minimal maintenance. There is no oil or grease to change and no coupling to align and maintain. With Flygt's closed cooling system and plug in double mechanical seal, the city also had the ability to eliminate the need for its external water source for seal flushing thus eliminating water usage. The Flygt N-Impeller pump also provides seal fail & high temperature monitoring and a 5 year warranty.



KEY FEATURES OF THE FLYGT DRY PIT PUMP:

- No maintenance hours due to clogging
- No greasing of bearings, coupling alignment or oil changes
- No seal leak mess to clean up
- Elimination of external water sources to keep seals cool
- Reduction in energy cost due to improved pump efficiencies
- 5 year warranty standard

When the job was completed, the city experienced a smooth and quiet system with an increased efficiency of over 20%. This project was a complete success which will pay for itself by eliminating labor costs due to clogging, water usage and increased efficiency which will reduce the city's energy bill.

