

FLYGT CHOPPER PUMP IMPROVES PLANT OPERATION IN CHELSEA, MI



One Existing Pump & New Flygt Pump Side by Side at the Plant Drain Station



Flygt Pumps Easily Retrofitted onto the Existing Rails

PROBLEM: Chelsea WWTP uses two drain pumps during the majority of their daily process and yearly maintenance procedures at their plant. These two pumps drain all five clarifiers, two flocculation tanks, two selector tanks, skimmer troughs, handle dewatering from their polymer building, and decant their sludge holding tanks. The existing chopper pumps greatly struggled to keep up with this demand. Their long run times, inefficient use of energy, and their overall inability to handle their daily processes, required Chelsea and their Engineer to evaluate other options. Proposals were sought from the original pump supplier as well as other Chopper Pump Manufacturers for replacement pumps for use with their existing rail system and wet well configuration.

SOLUTION: Kennedy Industries provided a proposal on the Flygt FP 3153 Chopper Pumps and after review with the Engineer and Chelsea was awarded the job. Based on the system requirements, Kennedy was able to propose 20HP pumps for the application whereas the competition's selection was for 30HP pumps. The proposed Flygt pumps offered better hydraulic efficiency, the ability to handle the flows during their normal and maintenance processes, and the Flygt proposal was significantly less expensive than the competitor.

According to Chelsea, the new Flygt Chopper Pumps have cut their drain time in half! The Flygt pumps perform their required drain tasks two times faster than the previous choppers and do not struggle to keep up with the demand. For example, after rain events, Chelsea manually recirculates the solids in the two flocculation tanks. In the past the City would open up the valves and the previous chopper pumps would struggle so badly that flow would back up into the tanks. With the new Flygt Chopper Pumps, they no longer have this issue. The new Flygt Chopper Pumps are "working out great", according to the plant.

At Chelsea, the new Flygt pumps handle solids, rags, heavy summer algae, and hair with ease. They boast reduced maintenance with no oil to change or maintain as well as inverter duty rated motors and 18 month warranty as standard. The Flygt Chopper pumps were easily retrofitted onto the existing rail system and perform faster and more efficiently; saving the Owner valuable time, energy and money.

Flygt Chopper Pump

Features:

- Energy Savings over Conventional Chopper Designs
- Designed for Continuous Operation
- Closed Loop Cooling System
- No Oil or Grease
- Inverter Duty Motor
- Permanently Greased Bearings, Upper & Lower
- Truly Non-Clog Design
- Compact Design
- 18 Month Warranty