

BARNES®

PATASKALA, OH

Application Overview

The municipality of Pataskala is a part of Licking County, located in central Ohio. Pataskala has approximately 15,500 residents and is a rural water and wastewater district that covers about 100 sq. miles. The wastewater treatment plant is designed to handle 2.5 million gallons per day.

The pump station receives sewage from primarily residential applications including a trailer park and several other lift stations. The sewage is then pumped from this lift station to the Pataskala wastewater treatment plant. Many large uncommon items were clogging the existing non-clog pumps at the station consistently, including t-shirts, mop heads, ropes, rags and undergarments. Due to the blockages, a service team had to unclog the pumps weekly. The constant service calls led to unnecessary expenditure on man-hours, equipment and fuel.

Installation

Excel Fluid Group Inc., a Crane Pumps & Systems' channel partner, teamed up with Matt Pennington, Collections System Supervisor, to install Barnes' Sithe Chopper pump to chop large solids before reaching the impeller and therefore prevent clogging. The pump installed was a 10HP Sithe Chopper pump. The installation was straight forward and no modifications were required to the station or the control panel. The slotted discharge flange allowed the pump to be installed with existing guide rail fitting. Plug-n-play cord made the installation quick and easy. Equipped with hardened and heat treated cutting blades, Sithe has been chopping and pumping away the solids since June 2017 with zero downtime.

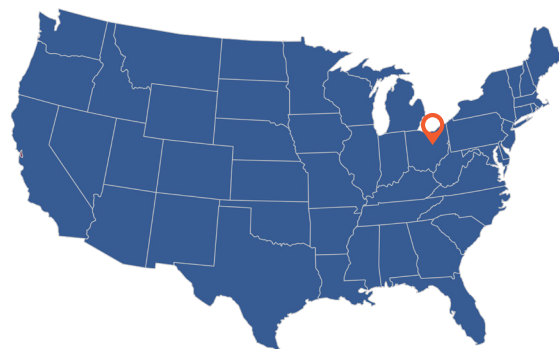
Key Takeaways

Pain Points

- The existing non-clog pump required weekly runs to unclog the pump
- Weekly clogging led to high maintenance costs and service costs

Solution

- A 10HP Sithe Chopper pump installed
- Due to the design the Sithe, the existing pump was replaced with no changes to the pump panel or station design
- There has been zero downtime with the pump since installation



PUMP

Barnes Sithe Chopper



OPERATIONAL IMPROVEMENT

Zero Pump Downtime



INSTALL DATE

June 2017



MUNICIPALITY POPULATION

15,500

