

Pumping away maintenance

New Flygt Progressive Cavity (PC) grinder pump proves reliable

South East Water, one of three major water authorities for the city of Melbourne, Australia, wanted to trial our new Progressive Cavity (PC) grinder pump at one of their problematic sites.

South East Water based in Melbourne, Australia, previously trialed two systems from other vendors at Tooradin Comfort Station, a public toilet block between Melbourne and Phillip Island. Unfortunately, these prior attempts resulted in the pump clogging monthly or, in some cases, weekly resulting in costly unplanned visits.

Tooradin Comfort Station experiences significant fluctuations in traffic patterns: increased traffic during tourist season and limited visitors during the off-season.

During tourist season, when tourists travel to Phillip Island to see the penguins, there is increased traffic and a significant demand on the system. During the off-season, Tooradin has limited visitors, placing a minimal demand on the system. South East Water turned to us for our expertise, knowledge and understanding

“We achieved success while two other pump suppliers failed.”

of all aspects of Waste Water Transportation. Although we were familiar with the issues facing South East Water, we consulted with our existing client base, both in Australia and throughout Europe, to design a system specifically to meet their needs. This system needed to predictably operate in a volume station, effectively reduce solids to slurry, and require minimal maintenance. We offered the opportunity to do a three-month trial of our Pressure Sewage System (PSS).

For this trial South East Water installed a Flygt Pressure Sewage System using a Simplex System in a traditionally Duplex application to speed up the trial results.



CUSTOMER: South East Water, Melbourne, Australia

CHALLENGE: Obtain reliability and eliminate unplanned visits

SOLUTION: Install the new Flygt M3068 Progressive Cavity grinder pump

PRODUCTS: Flygt PSS package, including tank, pump and controller

We engaged South East Water each step of the way

South East Water used their own contractors for the installation itself, which gave them an additional opportunity to give us feedback into the system design. They found the system simple to install and us responsive to their needs.

Each month during the trial, we invited South East Water back to the station to inspect the well. South East Water reviewed all aspects of the station and was impressed with how quietly the pump operated. We disassembled the pump so South East Water could inspect it and observe the ease of disassembling and reassembling it. During one of the inspections, the main flow was

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still allowed to build up in the tank. When reinstalling the pump, we noticed that the tank was full of solids from the public toilet block, including denim rags and sticks. The pump started and quietly emptied the tank in no time.

Beyond expectations

Another aspect of this system that will save South East Water time and money is the ability to view the level in the well (floor to top level). The analog level measurement provides a unique capability in Pressure Sewage Systems found in this region of Australia.

On average, pumps start and stop four times per day. During the trial the PC grinder pump was started and stopped 80,000 times, which is the equivalent of running for 27 years in a common household.

After two failed trials with other pump vendors, South East Water completed the trial of our PSS in 2010 and has confirmed that it will use our PSS for Commercial and Industrial sites.

South East Water has not experienced any clogs with the PC grinder pump and has not made any unplanned visits to Tooradin Comfort Station since the trial began over a year ago.



Installation.



Controller at Tooradin Comfort Station.



Solids quickly cleared.