

# Application Report - No.17

# Sewage



The Selwood Self Priming Chopper Pump, driven by an electric motor, has been installed by Wessex Water at Redwick in Avon to improve the storm water handling capabilities at one of its small, unmanned fully automated sewage works.

During bad weather the inlet had been allowing through nearly double the amount of water than usual which lead to capacity problems.

The solution was to re-instate the old storm water holding tanks and to install an overflow pump. The pump is activated via a flow sensor fitted at the works inlet when it was over working. The target was to fill the storm tanks in 8 hours so as to give the plant some storage should the flows exceed the plant's limit. A Selwood Chopper Pump has been installed to meet this requirement.

The Chopper Pump is driven by an 11kw electric motor and incorporates the proven Selprime automatic priming system. The chopper pump conditions the raw sewage as part of its normal pumping operation and thus reduces the build up of rags in storm water holding tanks. The flow that was achieved was slightly better than expected as the tanks were filled in 6 hours instead of 8.

The introduction of the self priming version of the Selwood Chopper Pump provides Selwood's customers with an additional solution in pumping raw sewage and sludge. Both the Environment Agency and Wessex Water have given the system their approval and Selwood is proud to have the Chopper as part of the process.



## Chopper

Power Requirement	11kW
Pump Speed	1450rpm
Capacity	300m <sup>3</sup> /h
Inlet / Outlet Port	150/100mm
Delivery Head	25m



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