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# Bedford Pumps Case Study

## Bedford Pumps provide permanent solution for annual problem at Welmore Lakes

Bedford Pumps Ltd have supplied a permanent means of addressing an ongoing problem with three vertical turbine pumps installed in a brand new pumping station at Welmore Lake Sluice in Norfolk.

Welmore Lake Sluice is an Environment Agency asset which controls water levels in the River Delph and the Ouse Washes Flood Storage Reservoir. Its normal function is to gravity discharge winter flood water from the Ouse Washes Flood Storage Reservoir into the tidal River Gt. Ouse. Once the level in the reservoir has dropped to the point where gravity discharge through the sluice is no longer possible, the remaining floodwater is then pumped down to summer retention level. In order to achieve this, small land drainage pumps and temporary diesel pumps were previously used as required. The Environment Agency identified the need for a more cost-effective, environmentally friendly and secure solution.

To resolve this problem Bedford Pumps were awarded the contract to supply and install three new pumpsets and all associated mechanical and electrical equipment for Welmore Lakes Transfer Pumping Station. Two pumps will replace the original temporary pumps and a third will be on permanent standby to boost pumping capacity where necessary. The suspended bowl pumps operate at a fixed speed and are rated individually at 1500 l/s against a head of 9.18 m.

Bedford Pumps were delighted to have the opportunity to work with Jackson Civil Engineering to help the Environment Agency, and have offered a permanent solution that will serve to eliminate an annual problem in a cost effective way.

For further information on this or any other of our applications please contact our Sales Team at:

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*Welmore Lake Sluice*



*Bedford Pumps' suspended Bowl Pumps*



*Welmore Lakes Transfer Pumping Station*