



Why are we replacing the Horsey pumping station?

The existing submersible electric pump sits in the foundations of the old engine house that once housed steam pumps as early as 1863. The steam pumps operated alongside the wind pumps until 1939 when they were replaced by diesel powered pumps and later by electric plant in 1957. These operated until the latest electric pumps were installed in 1998.

While ongoing repairs have sustained the pumping station operation for decades the existing pumping station is significantly beyond its design life and requires replacement.

Without it, 793 hectares of lowland would be subject to permanent flooding, impacting internationally designated habitats, protected species, local communities, farmland, infrastructure and tourism.

What work will we be carrying out and when?

The replacement of Horsey pumping station is part of the wider Upper Thurne Integrated Drainage Project seeking to replace eleven pumping stations in the River Thurne catchment.

Construction to replace the pumping stations at Horsey and St Benets began in Spring 2025 and will be completed in Spring 2026. The remaining stations in the broader project will be constructed between 2026 and 2029.

The new pumping station at Horsey will be constructed from steel sheet piles driven in to the local crag (hard geological layer beneath the softer peat / clay deposits). These piles form a "wet well" that houses two new Pentair VDX450 suspended bowl "fish friendly" pumps delivering up 375 litres per second each. The intake of the wet well will be fitted with a screen to protect the pumps from debris.

The pumps discharge through the existing flood bank via below ground pipework with precast concrete energy dissipation outfall structures, reducing the velocity of the water as it enters the staithe. Lightweight flap values on the end of the discharge pipes prevent reverse flow from the river when the pumps stop.

A separate control building houses the operating and monitoring equipment allowing improved management of water levels, data analysis and fault finding. The new pumps operate on variable speed drives allowing them to deliver a wide range of flows in response to catchment conditions.

The new pumping station provides significant improvements in efficiency, reduced maintenance costs, increased resilience to climate change and adaptability to future land management needs whilst complying with the latest environmental legislation and best practise.



Complete enabling works including vegetation and watervole mitigation, access improvements and service diversions

Summer 2025 Civil engineering construction works. Manufacture of pumps and mechanical / electrical equipment.

Autumn 2025 Installation of pumps, power and control systems, sensors and 📥 trash systems

Winter 2025

Commissioning the new pumping station and decommission existing stations (site specific timings)

'Did you know" - from April 2023 to March 2024 Horsey pumping n pumped around 3.8 mill tonnes of water. Without the pumping station the 793 hectar Horsey catchment could be unde 1m of water within 12 months!

FIND OUT MORE:

For the latest project updates visit the Water Management Alliance's (WMA) 'News' webpage or follow 'the_WMA' on our social media channels



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a-new-pumping-station-for-horsey