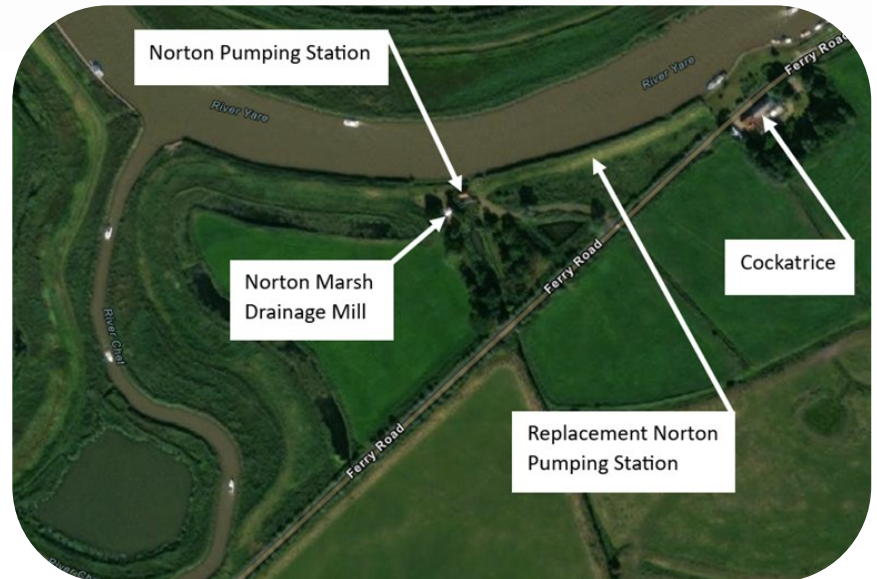


## About the Project

We are constructing a replacement pumping station, located approximately 100m to the east of Norton Marsh Drainage Mill. The old mill drained the marshland between 1863 to 1943 when the adjacent pumping station was constructed.

The existing pumping station has major structural issues and requires urgent replacement.

Following the construction of the replacement pumping station the Norton and Raveningham pumping stations will be decommissioned.



*Location plan*



*Norton Pumping Station*

## Where is this work happening?

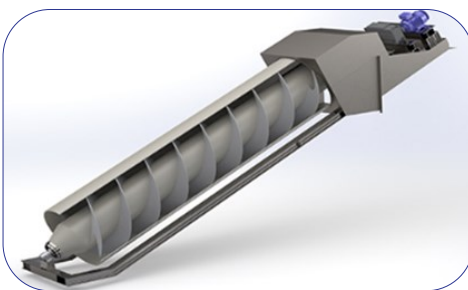
The Norton pumping station is located off Ferry Road, Norton Subcourse, NR14 6SF. National Grid Reference TG 40313 01138

## When is this work happening?

The main construction works commenced in August 2023.

The replacement pumping station is due to be operational in August 2024.

The decommissioning of the existing pumping stations will take place between August 2024 and September 2024.



*An Archimedes screw pump*

## What will we be doing?

We will be installing two Archimedes screw pumps, which lift water from the marsh over the earth flood embankment, discharging into the tidal River Yare.

This type of pump provides passage for fish and eels and has the advantage of operating over a broad range of flow rates, helping to maintain stable water levels within the catchment.

## Project Progress Update overleaf

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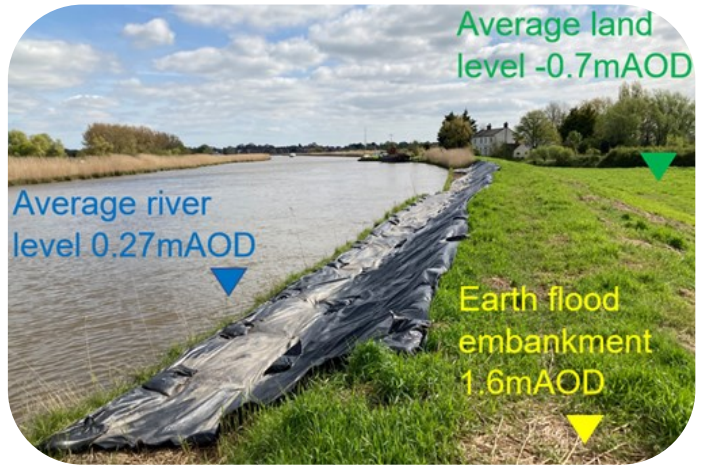
  @WaterManagementAlliance

   @the\_WMA

## Why are we doing this work?

The tidal River Yare water level is on average approximately 1 metre above the marsh level. The earth flood embankment protects the marshland from being permanently underwater. The water from within the catchment cannot drain naturally into the river because the river level is higher than the adjacent land.

Without the existing pumping stations and drainage network, the Norton and Raveningham catchment would be subject to permanent flooding, causing the loss of functionally linked Priority Habitat, arable land, woodland and properties.



*The River Yare, adjacent land and embankment levels*

## How will this benefit you?

The pumping station forms an integral part of the flood defence infrastructure protecting people and property, rural roads, railway and utility infrastructure.

The new pumps will have increased capacity and resilience to allow for climate change.



*Left: Piles being installed using a suspended vibro hammer.*

*Right: Directional drilling rig installing cable ducts for electric cable under IDB main drain.*

*Below left: Completed pumping station piling viewed from the inlet.*

*Below right: Control kiosk base. Finished floor level will be at the top of the concrete.*



## Project Progress Update

We're making great progress on site...

- We've completed the driven steel cased foundation piles and reinforced concrete works for control kiosk and UK Power Networks transformer kiosk.
- The directional drilling for the high and low voltage electric cable duct under the IDB drain has finished.
- The installation of the river wall and cofferdam piling is in place. This includes the installation of temporary sheet piled returns, which allows the earth flood embankment to be removed.