

Whitlingham Sewer Rehabilitation

Client: Anglian Water (@one Alliance)

Location: Norwich, Norfolk

Value: £4m

Duration: 8 Weeks

In Brief...

Barhale were engaged through the @one Alliance to work on this sewer rehabilitation project for Anglian Water. The existing Victorian sewer carrying Norwich's flow into Whitlingham Water Recycling Centre (WRC) was at risk of collapse. This is the main sewer taking flow from the city so the flow needed to be diverted to facilitate the repairs.



Technical Features...

The rehabilitation works required over pumping 190 million litres of sewage a day. The team installed an overland steel pipe, with bridges to maintain the use of local roads that the pipe needed to cross.

The Victorian sewer was 1676mm diameter, 360m of which required rehabilitation. The team needed to remove 135m³ of debris and over pump the existing 2200 litres per second flow utilising the aforementioned temporary overland pipes to allow for an innovative GRP pipe jacking solution. There was a total of approximately 700m of temporary pipework over ground.

There was only a five hour window in which to make the over-pumping connection, so careful planning and working was essential. In all, this project required nine months of planning to ensure the effective and successful solution.

Customer Benefits...

Traditional methods would have caused disruptive roadworks and required the use of tankers, but by diverting the flow instead the team were able to complete the work without any impact to local residents.

Wider customers experienced zero disruption from the works and the project ensured to mitigate future disruption from the potential sewer collapse.

