

SCHEME

Midland Road, Gloucester

CLIENT

Barhale Construction

CONSULTANT

Severn Trent Water Services

WEHOLITE SOLUTION

2.8 m diameter CSO storage tank

Brand new solution to an age old problem

A £2.45 m flood alleviation scheme in Gloucester is benefiting from the use of the largest attenuation tank ever manufactured in WEHOLITE to be used on a Severn Trent Water scheme.

Over 100 years since they were designed and built, parts of Gloucester's sewer system are increasingly unable to cope with demands put on them by 21st Century living. The result is increased flooding to properties in affected areas, with massive disruption to residents and businesses.

Subsequently, Barhale Construction was appointed by Severn Trent Water to undertake works under their £2.3 bn AMP4 Investment Programme, with £7.5 m to be spent on schemes in the Gloucester area to alleviate these problems.

The first scheme in the programme is in Midland Road and will help to protect a number of properties from internal sewer flooding. Severn Trent engineers selected use of the WEHOLITE structures after considering a number of options and collaborative working with Barhale Construction which brought construction certainty to the project.

Barhale Construction has installed an underground attenuation tank supplied by ASSET International Ltd., which will collect and store excess water at times when the sewer capacity is reached - usually during periods of heavy rainfall. The stored water is later released into the sewer system once levels have receded.



With a capacity of over 2,500 m³, this is the third largest water storage tank ever manufactured by ASSET, made up of 400 m of 2.8 m diameter pipe and four 3 m manifolds. Each manifold is constructed out of the lightweight WEHOLITE (HDPE plastic), weighing in at less than 6 tonnes a piece.

THE ESSENTIAL HDPE WATER MANAGEMENT SOLUTION

CONTACT ASSET International Ltd:

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Scottish office: 1 McMillan Road, Netherton Industrial Estate, Wishaw, Lanarkshire, ML2 0LA

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Ken Henderson, project manager for Barhale Construction said: "This is the largest WEHOLITE storage tank we have ever installed and it has proved as easy to use as the smaller tanks, despite its size. The material has helped us to cut costs by reducing the time and preparation needed for the installation, and with access to this busy location restricted; the light weight of the structure has been a bonus.

"Because WEHOLITE is so much lighter we are supplied with completed fabricated sections that have been constructed offsite and delivered ready for installation - an option not available with other materials. We have been most impressed by the flexibility, versatility and the ease with which we can manoeuvre WEHOLITE pipes in comparison with products made out of traditional materials."

The attenuation tank has been installed beneath a former railway embankment sandwiched between Midland Road and Trier Way, near Gloucester city centre by staff from Barhale Construction's Midlands Region based in Walsall.



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