



## Thames Tideway Sewer (UK) Waterproofing

<b>Country</b>	United Kingdom
<b>Type</b>	Sewer
<b>Client</b>	Tideway (Bazalgette Tunnel Limited)
<b>Main Contractor</b>	West Contract BMB JV (Bam Nuttall, Morgan Sindall, Balfour Beatty) Central Contract FLO JV (Ferrovial Agroman, Laing O'Rourke), Barhale East Contract CVB JV (Costain, Vinci, Bachy Soletanche), Loclon
<b>Execution of the work</b>	Renesco UK Ltd. / Renesco a.s.
<b>Designer</b>	Aecom, Arup, Atkins, Mott MacDonald, OTB <sup>e</sup> , Jacobs
<b>Construction Period</b>	2019 – 2022

## Project Description

The 25km tunnel beneath London, the 'super sewer', will run from the Acton Storm Tanks in West London to the Lee Tunnel at Abbey Mills in East London, with most of the tunnel being under the River Thames. The flow from over 30 combined sewer overflows (CSOs) will be diverted from the sewerage network into the main tunnel, where it will flow by gravity to the existing Lee Tunnel. From there it will run to the Tideway Pumping Station, to be pumped to Beckton sewage treatment works. The main tunnel construction uses Tunnel Boring Machines (TBMs). Additional works will intercept the CSOs and connect them to the main tunnel.

The construction work is divided in 3 areas – east, central, and west.

## Scope of Service

Installation of waterproofing membrane system under pressurized water conditions in tunnels, shafts and cross-passages, fiber-reinforced shotcrete, cast-in-place concrete, sheet waterproofing 2mm, PVC-P according to BS 8102 (British standard), 1'200g/sqm polypropylene geotextile (PP), full-round (360°) sealing, protection sheet membrane, PVC-P water barriers, BA anchors and grouting devices.

- Sheet waterproofing
- Shaft, Culvert & Connection Tunnels
- 1'200g/sqm PP protection geotextile
- PVC-P water barriers, 500/30/6
- Contact grouting injection tubes
- Termination at TBM segments and pre-cast-concrete-elements
- Headwall connection
- Vulcanization/ Jointing of elastomer (rubber) based waterstops
- Adhesive strip/ tape termination
- Stainless steel loose-flanch termination
- Grouting/ Injection works with PU and acrylic resin



1. Tideway Central/ Carnwath Road Riverside (CARRR)
2. Vulcanization of elastomer waterstop at Hammersmith-HAMPS
3. Super Sewer Overview, shaft waterproofing