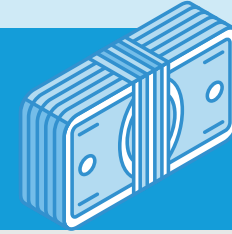


Investing in Canterbury

Our plans for 2020–25



£49 million of improvements in Canterbury District



£30 million
Wastewater treatment/recycling

£15 million
Water treatment

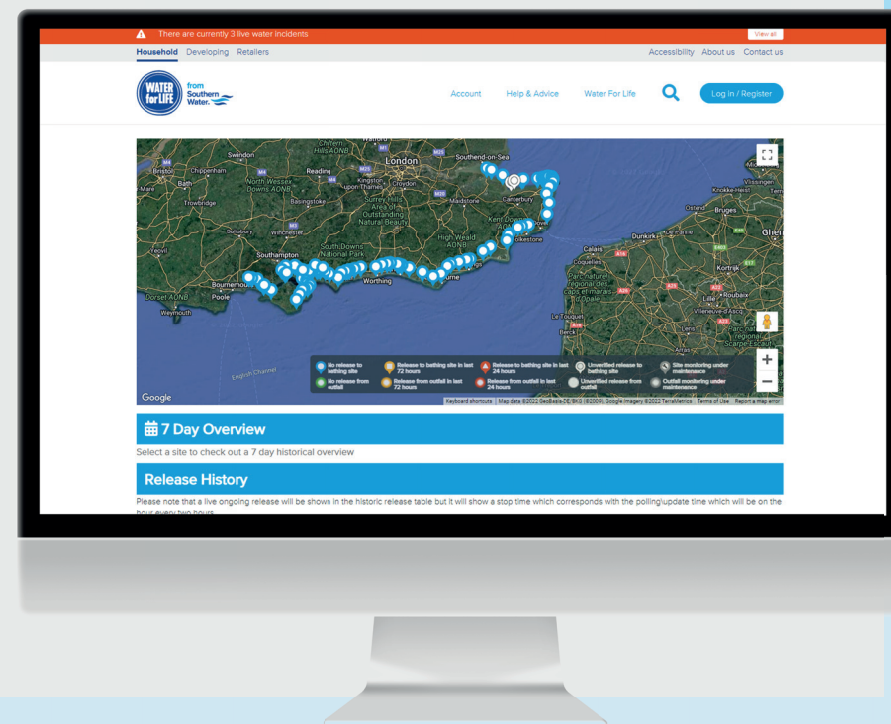
Nearly **£2 million**
Water supply

Nearly **£2 million**
Wastewater collection

Monitoring bathing water quality



- We've developed Beachbuoy that gives you near real-time information about releases of stormwater or wastewater. It's a free, interactive, online map where you can see updates about releases so you know what's happening near you.
- We're committed to further improvements to Beachbuoy including the addition of inland waterbodies - southernwater.co.uk/beachbuoy
- Starting this summer, we'll be working with Canterbury City Council and the Environment Agency to pilot new real-time monitoring technology at Tankerton beach.



Bathing water classifications*

The Environment Agency **collects water quality data** every year between May and September.



Key
 Excellent Good

How we can all protect our bathing waters...

1. Take rubbish home
2. Pick up dog poo
3. Report pollution

* Defra Bathing Water Classifications 2021



Over £25m to be invested at Swalecliffe Wastewater Treatment Works

See overleaf for full details

Over £2m to be invested at May Street Herne Bay Wastewater Treatment Works

- We recently spent a further £200k at our Kings Hall Herne Bay pumping station to ensure we're better prepared for very heavy rainfall
- We've updated and upgraded equipment and controls, including pumps, screens, and electrics. We now have a spare pump on site, enabling our team to respond as quickly as possible should any issues arise.
- Most recently we've jet washed the building and re-painted the railings to improve its appearance.

Settled storm overflow

35 counted spills using 12-24h count method in 2021

Future plans
Upgrading site to meet tightened phosphorous consents

Around £2m to be invested in the Canterbury network

- This includes £500,000 to improve storm tank cleaning at Canterbury Wastewater Treatment Works.

Settled storm overflow

11 counted spills using 12-24h count method in 2021

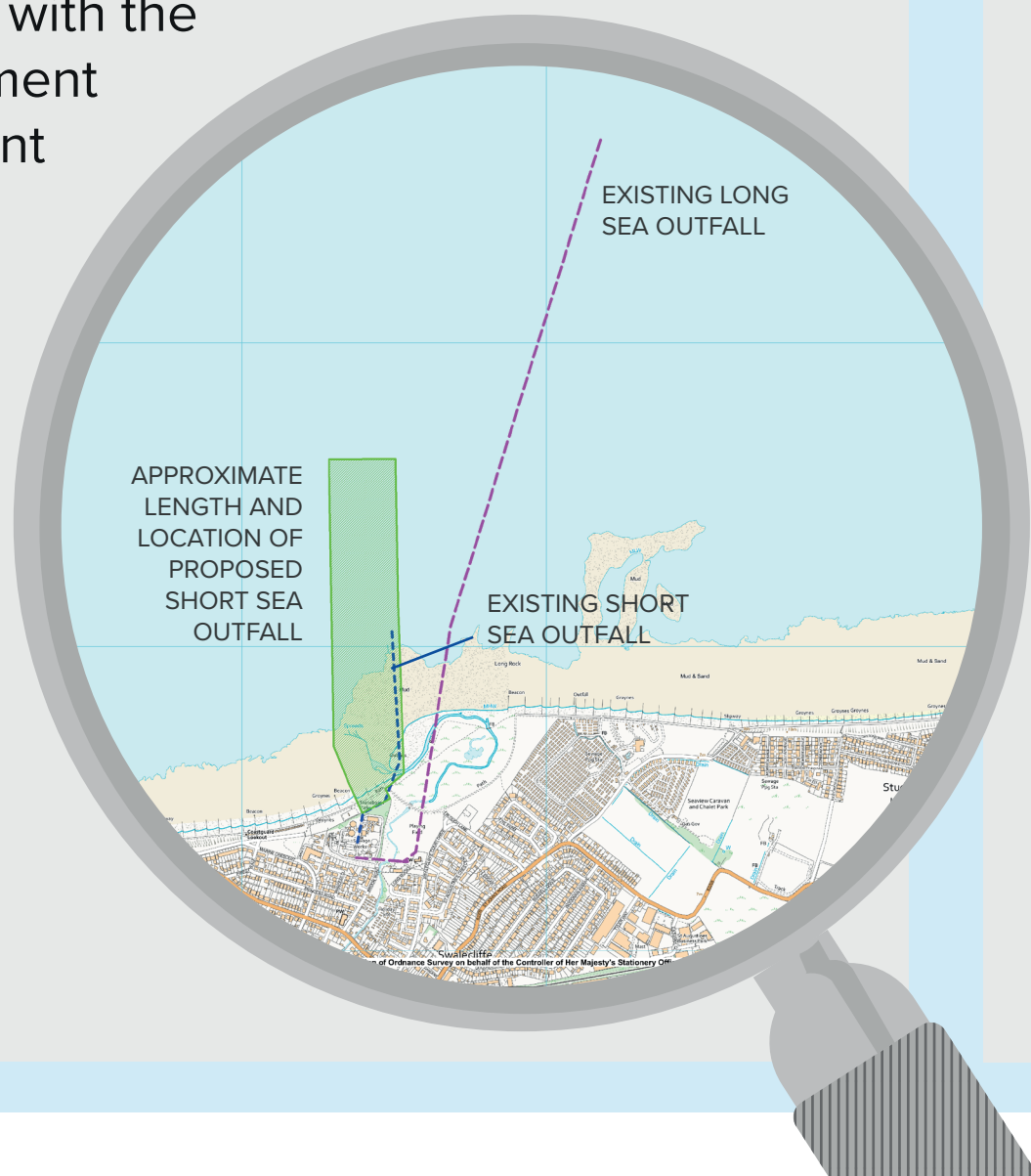
Future plans
Upgrading treatment process to improve river water quality

Spotlight on Swalecliffe

What we're doing

Swalecliffe Wastewater Treatment Works (WTW) serves nearly 33,000 people in Swalecliffe, Whitstable, Chestfield and the surrounding areas.

- Between now and 2025, we'll be spending over £25 million on a new short sea outfall and upgrades to the pumping and control systems.
- Building the new the short sea outfall is part of our long-term plan to cater for future catchment growth and climate change. By doing this we will reduce the risk to the environment and of inland flooding. We expect to complete construction in 2024.
- Before we start construction we'll be working with the Marine Management Organisation, Kent County Council and Natural England to ensure that the sensitive environmental and ecological setting is protected.



Reducing storm overflows

In December 2021, we permanently sealed the outfall from the Brook Road Wastewater Pumping Station combined sewer overflow meaning we can't release storm water into the Brook. We're now working with the Environment Agency to develop a River Enhancement Plan.

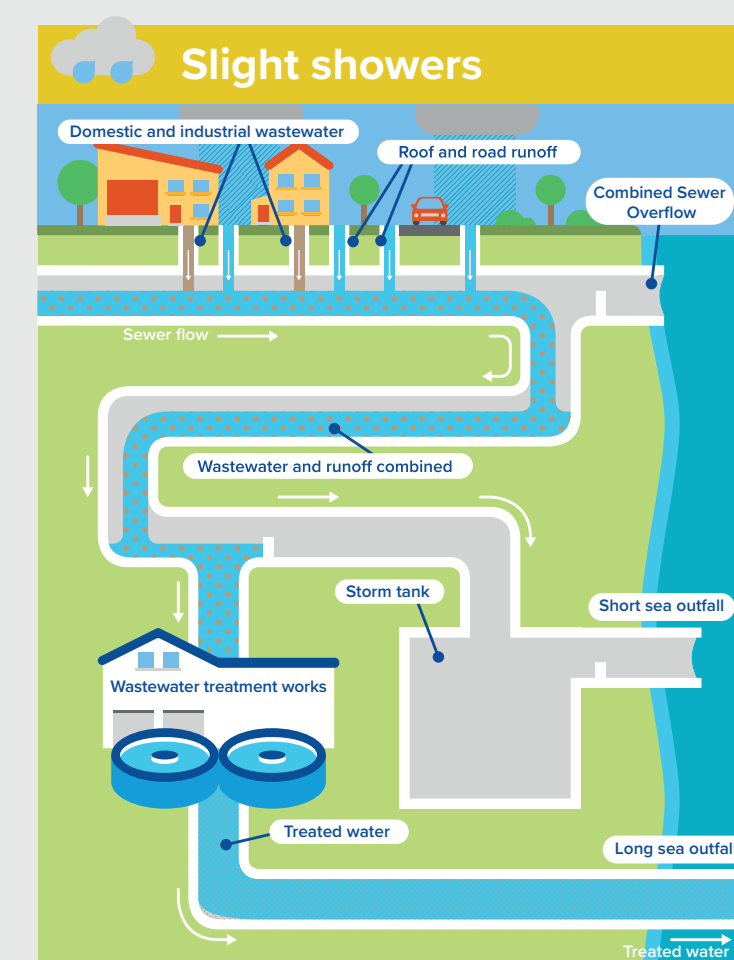
We've set up a Storm Overflow Taskforce to significantly reduce our use of storm overflow releases by 2030. We're working hard towards our target initiating five pioneering 'pathfinder' projects across our region.

We've already started work on our Swalecliffe Pathfinder, seeking to identify ways we can reduce the amount of rain run-off reaching the treatment works and therefore being released to the environment. The team are concluding their initial study of the catchment, understanding the issues that cause storm overflow releases in the area. Our aim is to work with partners and the community to significantly reduce storm overflows and sustainably manage the water flow in the catchment. The technical report, alongside a summary document, will be published on our website later this month. We're looking to reduce the frequency with which we need to release flows through the LSO by improving how we control the rate of flow from our Brook Road Pumping Station.

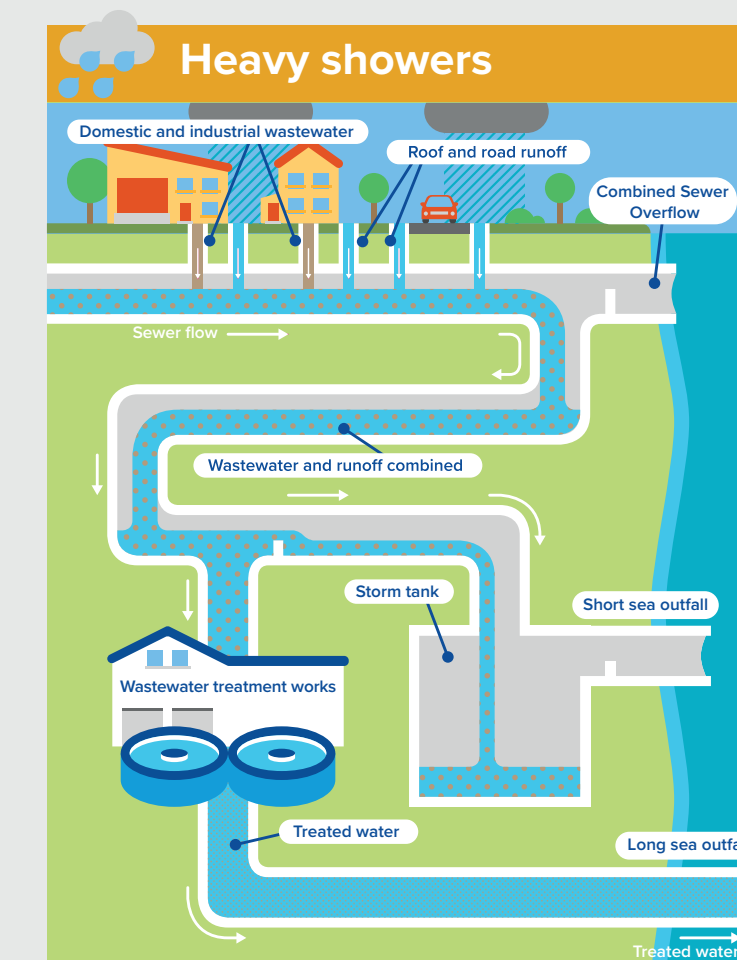
How we manage wastewater flows at Swalecliffe



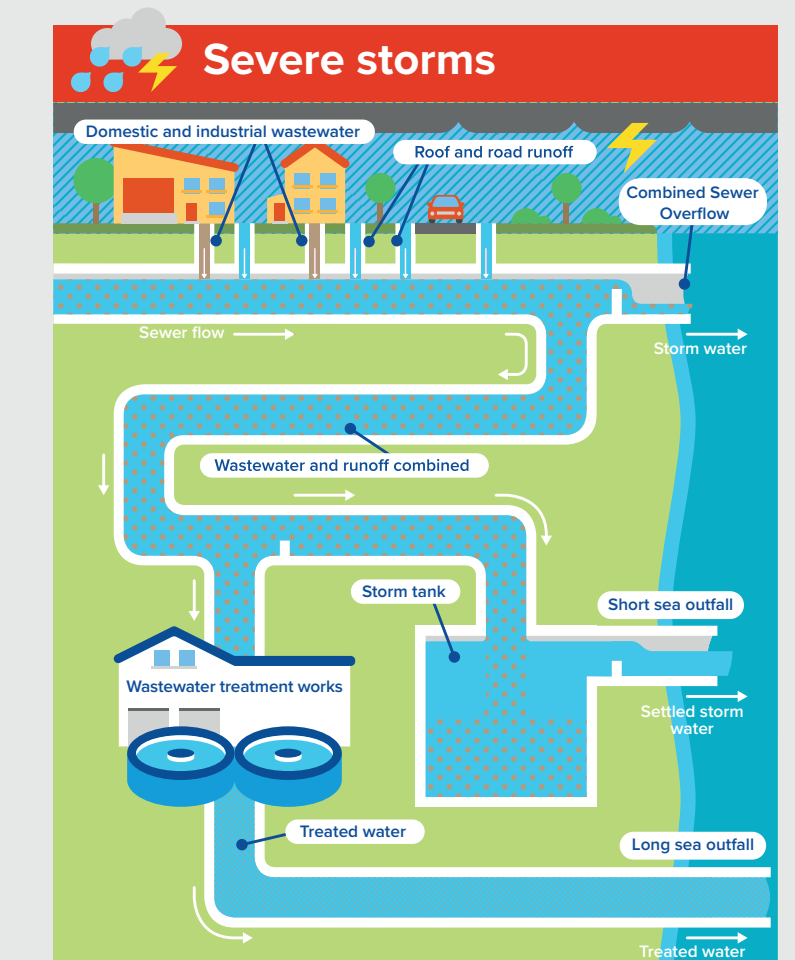
During dry weather the flow of wastewater from domestic and industrial properties is treated to meet strict bathing water standards, including UV disinfection, and then released into the sea via the long sea outfall, 2.7km offshore. Swalecliffe WTW is designed and permitted to treat 205 litres a second (l/s) of waste water.



In wet weather, rain runoff is combined with wastewater in the sewer increasing the flow that reaches our site. Flows in excess of 205l/s receive preliminary treatment and are blended with treated disinfected water and released into the sea via the Long Sea Outfall (LSO). Using the 2.7km long sea outfall first reduces the impact on bathing water quality. Every release of this type is recorded on Beachbuoy.



As wastewater flows reaching site increase, and exceed 760l/s, storm tanks are used to hold the excess ready to be treated after high flows subside – this reduces how often we need to use the short sea outfall helping to protect our bathing waters. The storm tank at Swalecliffe WTW can hold 2,750m³ – more than an Olympic swimming pool. Both fully and preliminary treated flows to the long sea outfall are recorded on Beachbuoy.



As a last resort, in sustained storm conditions, and once the storm tanks are full, we use the short sea outfall to prevent the flooding of homes, businesses, hospitals and schools. Every release of this type is recorded on Beachbuoy.

Storm Overflow via long sea outfall

110 counted spills using 12-24h count method in 2021

Settled Storm Overflow via short sea outfall

8 counted spills using 12-24h count method in 2021

