

## CASE STUDY

# Strongford



### The issue

#### Increased capacity required

Strongford STW is a major sewage treatment works serving the population equivalent of circa 350,000 from Newcastle-under-Lyme and Stoke-on-Trent. The site's sludge treatment facility provides a major centre for regional operations.

Based on a forecast increase in population, it was identified that an increase in treatment capacity would be required to accommodate the local growth.

Suprafilt were engaged to supply and install a new aeration system, header pipework and walkway to an existing Activated Sludge Plant (ASP) and new aeration lane to increase capacity and efficiency at the Stoke-on-Trent plant

## The solution

### Turnkey solution

Suprafilt successfully provided a new aeration system and associated services for Severn Trent's Waste Water Treatment Plant at Strongford, Staffordshire. Suprafilt provided a complete 'packaged-up solution', which provided the customer with all the elements required for the project with attractive capital and whole-life costs.

The air main installation, connecting blowers to existing ASP headers and the new aeration lane, was the largest ever undertaken by Suprafilt, with a one-metre diameter and a width of 16m running across a live ASP.

Suprafilt also installed new high-efficiency ABS turbo blowers, fine-bubble diffusers with 12-inch discs and Teflon-coated PTFE membranes to reduce fouling and extend life, and a new stainless-steel walkway.



## The result

### Satisfied customer

The six-month project, carried out on behalf of main contractors JN Bentley, at the time represented Suprafilt's second largest contract. It was successfully delivered on budget to the customer's satisfaction.

Suprafilt also had to incorporate a 'live' break-in to fit a stainless-steel break-in piece, connecting the plant's existing system to the new blowers. This had to be performed within a four-hour window to allow the continuous operation of the treatment process.