

Bruton WwTW – SAF Hire



Bruton WwTW

- SAF hire provides uninterrupted treatment during major filter bed refurbishment
- Six SAF hire units consistently achieved nitrification meeting tight required discharge consents <5mg/l Amm

Project Ongoing

Background

Wessex Water's Bruton WwTW serves the village of Bruton in Somerset. The works treats domestic effluent from approximately 3000 people using traditional percolating filters and peripheral equipment for screening and settlement etc.

Brief

The works filterbed required refurbishment in order to achieve and maintain the final effluent discharge quality level required i.e. 5mg/l. AmmN.

The major obstacle to the work was a narrow access road and steeply graded turn into site unsuitable for articulated vehicles and large cranes.

Solution

Working closely with two Transport companies a plan was prepared to: coordinate the delivery of

6 SAFs complete with kiosk; identify a suitable location where the loads could be safely transferred onto smaller tractor and trailer units; and to provide lifting at both locations via Hiab/lorry crane.

In order to minimize local disruption precision timing of the arrival of the units, transshipment, delivery and off-loading had to be seamless. It was critical that the weight of each SAF unit was within the working limit of the Hiab prior to arrival. The whole exercise was completed within three hours.

Between two tractor and trailers operating a shuttle run between the transshipment point and site the whole exercise was completed within a couple of hours.



Added Value Benefit

After installation and commissioning, the SAFs quickly seeded up producing excellent results. From the second week of operation the combined Ammonia levels after treatment were recorded

as 0.14mg/l. Consequently, site operations could start much sooner than initially scheduled allowing Wessex Water to reduce the whole programme of works.