

ENSURING OPERATIONAL CONTINUITY FOR A MAJOR WASTEWATER TREATMENT SITE

CASE STUDY | Municipal | Mobile water services



| The client's needs

The wastewater treatment plant (WWTP) required an urgent solution when a secondary settlement tank, part of an activated sludge process, failed to achieve the required level of biological treatment.

This section of the process needed to be removed from operation and recommissioned to re-establish the microbiological culture that delivers the biological treatment.

As the site serves a large population of local homes and businesses, covering a significant geographical area, a solution was required to ensure operational continuity and minimise the downtime of critical operations.

| The solution

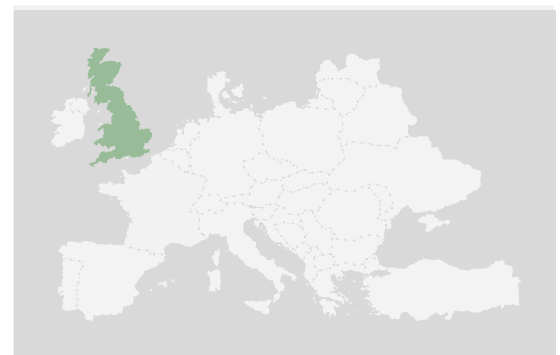
Due to a longstanding relationship between the site operator and Veolia, the water treatment technology specialist was contacted to assist with achieving the 350 cubic metres per hour (m³/h) of temporary treatment capacity required while the issue was resolved.

Based on the requirements, the Veolia team suggested that a new type of mobile dissolved air floatation (DAF) unit, which was ready for deployment, would be a good fit. Designed and built by Veolia, it was specifically developed to meet this type of requirement and capable of handling Total Suspended Solids (TSS) concentrations of 2500-3000 mg/L. The client agreed to be the first site to utilise this new unit based on its previous successful projects with Veolia.

The small footprint unit was quickly delivered to site and commissioned by the Veolia team. It was then operated by the client's team on site with support from Veolia. As this was a new unit, the Veolia service representative remained on site for a week after the commissioning to ensure a smooth operation.

“ *This type of municipal water treatment is an area where Veolia has decades of experience and the expertise to ensure the best possible solution to meet the client's requirements. Our mobile assets are ideal for this type of urgent, short-term requirement and we can quickly deliver a wide range of water treatment technologies.*

Adam Jelly, UK & Ireland Sales Manager, Mobile water services, Veolia



Wales, United Kingdom

| The client

A regulated water and wastewater services company which is responsible for a significant geographic area in the UK.

This wastewater treatment site serves a large number of homes and businesses in its local area.

Key Figures

350 m³/h
of treatment
capacity

42,096 m³
was treated on
site

2500-3000 mg/L
concentration of total suspended solids in
influent water

| Results

The mobile DAF unit was operated on the site for six weeks while the permanent treatment assets were returned to full working order. The unit was then decommissioned, removed from the site and made ready for the next deployment. In total this cutting-edge mobile asset treated 42,096 m³ of wastewater during its time on the site and achieved performance levels that surpassed the target water quality.

Veolia's European mobile water fleet will successfully expand with many more mobile DAF units, available for short term, medium term and multi-year service.



“ For this site, a close collaboration between ourselves and the client's team ensured smooth implementation, leading to the successful deployment of this mobile asset as part of our expanding mobile water services fleet. The client was pleased with what we were able to achieve, and it allowed the site to continue operating at the level required to meet demand.

Adam Jelly, UK & Ireland Sales Manager, Mobile water services, Veolia

