

ABLE Helps Reshape Thames Water's Odour Boundaries

Mogden Sewage Treatment Works is the second largest in the UK. It was built between 1931 and 1935 at a cost of £1.7m and covers an area of 55 hectares. Over half of the power used by the plant is renewable energy that has been generated on site as part of the sewage treatment process. The works serves around 2.1 million people, and some of the wastewater has travelled over 20 miles by the time it reaches Mogden.

As part of a £140M enhancement to the site, designed to extend sewage treatment capacity by 50 per cent, Thames Water asked ABLE to upgrade Mogden's boundary monitoring network of "best in class" Jerome Hydrogen Sulphide Analysers to the current generation Model J605. All 15 analyser systems are housed in thermostatically controlled IP67 environmental enclosures.



Jerome within environmentally controlled enclosure

The new analyser builds on the industry proven performance of its predecessor, with several new, performance enhancing features: The J605 has improved accuracy in the single figure PPB region, critical for nuisance odour

monitoring. Its automated sampling and regeneration functions facilitate longer periods of unattended monitoring, as does its on-board data logging, with 20,000 data points capacity and USB connectivity for simple download.

Since its launch, the J605 has become a recognised industry standard, used by many water treatment and waste management companies as well as regulatory bodies such as the EA, SEPA & Natural Resources Wales. The improvements have significantly reduced the amount of storm sewage that overflows into the tidal stretches of the River Thames when the site becomes overloaded during heavy rainfall and helped Thames Water to meet tighter quality standards for the effluent they discharge.



Horizontal plinth installation on Duke of Northumberland River (site entry road)



Vertical unistrut mounting near settlement tank

To accommodate the new equipment installations, Thames reshaped the western embankment, inside the existing site boundary. The landscape to the west of the site has been enhanced, benefiting local wildlife.

As well as significantly reducing sewage discharges, these improvements are helping to reduce odour at the site, as the use of storm tanks has decreased during heavy rain, and new and existing equipment has been covered over.



Thames Water have recently ordered another six Jerome J605s for the same application on their Acton site.

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