

Final Effluent Washwater Treatment System

New LRP elements remove weed and deliver improved backflushing

Operator

Thames Water Utilities Limited, Beckton Sewage Treatment Works, East Ham, London, United Kingdom.

Background

Thames Water's Sewage Treatment Works in Beckton, East London is the biggest in the UK and one of the largest in Europe, serving 3.5 million people throughout London. Thames Water are currently completing a £190m project to upgrade and expand the works, which will treat sewage to a higher standard and will enable the site to treat 60% more sewage from a growing population.

Description of the solution

For this application, 2 x BOLLFILTER Automatic Type 6.18 units are fitted within the system. Final effluent site feed filters were initially set up and installed with 2D 3000 micron filter elements.

After regular maintenance & monitoring of these BOLLFILTER units, it was recommended by BOLLFILTER to change to new Longitudinal Round Profile filter elements at 1000 micron, to deliver improved performance.

Advantages and benefit for the customer

This new type of BOLLFILTER element installed is designed to cope better with the large amount of weed growth that regularly enters the washwater system.

It also allows the BOLLFILTERS to back-flush more efficiently therefore maintaining system pressure.

Additionally, the finer filtration level of 1000 micron provides cleaner washwater to the whole site, including the THP system.

Testimonial

Aziz Mustafa, Technical Co-ordinator, Beckton Sewage works said; "BOLLFILTER is one of our valued contractors that gives us a good service with the work we are doing at Beckton STW. The filters are maintained to a high standard by way of regular planned maintenance by BOLLFILTER engineers."

System 2 x BOLLFILTER Automatic Type 6.18 DN150
Filtration Level: 1000 micron
Flow Rate: 216 m³/hr
Operating Pressure: 3 bar



2 x BOLLFILTER Type 6.18 DN150 Final Effluent Filters



Cleaner washwater safely enters the River Thames



Jackets help prevent cold weather damage in the winter



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