

## Improving Resilience at Fairlight WwTW

Installation of the McGill Distributor delivers improved compliance.



McGill Distributor installation at Fairlight WwTW

*“Following installation of the McGill Distributor PST levels have dropped and compliance has improved as rotations are more reliable.”*

**Southern Water Process Scientist**

### Scope

Two McGill Distributors were installed to replace existing syphonic driven rotary arms at Fairlight WwTW.

### Challenge

Site compliance was being affected by unreliable operation of the syphon, while system capacity limitations were causing the primary tank weir to surcharge during high flow conditions. A solution was required that would both deliver reliable filter arm rotations and address overtopping of the primary tank weir.

### Outcomes

Installation of the McGill Distributor has increased maximum pass forward flow to the filter beds to 28l/s, without surcharge of the primary tank weirs, and provided blockage resilience and reliable zero energy rotation for flows that have ranged from 0.25l/s to 30l/s.

