

## Improving Capacity at Appledore WwTW

Installation of the McGill Distributor delivers additional hydraulic throughput.



McGill Distributor installation at Appledore WwTW

### Scope

Within a wider scope of refurbishment and upgrade to the Appledore works, two McGill Distributors were installed to replace existing electric driven rotary arms.

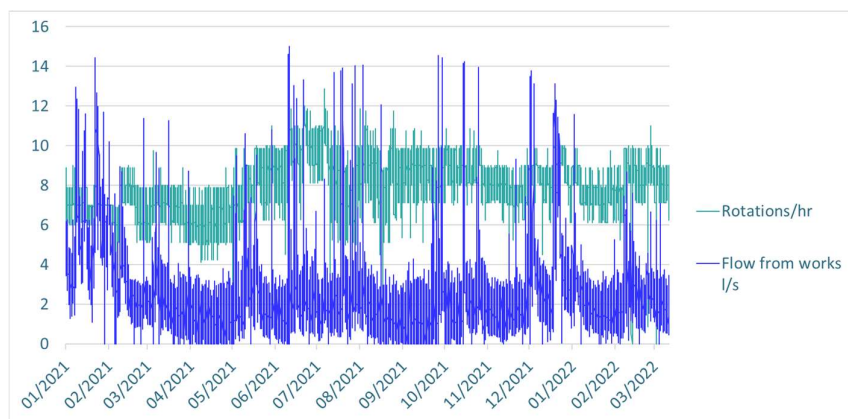
### Challenge

The existing rotary arms had been assessed as undersized to accommodate inflows and additional planned process returns. An economical solution was sought to maximise hydraulic capacity in the existing system, whilst ensuring rotation in all flow conditions.

### Outcomes

Installation of the McGill Distributors increased maximum pass forward flow to the filter beds from 4l/s<sup>1</sup> to 14l/s without impact on the existing primary treatment and storm overflow arrangements; while providing reliable zero energy rotation in all flows conditions.

This has unlocked the greatest potential of the existing assets and provided a reliable secondary stage foundation for the further upgrade and expansion of the works.



<sup>1</sup> As determined by client site assessment.