

## Improving Resilience at Plumpton WwTW

Installation of the McGill Distributor provides enhanced system control.



McGill Distributor installation at Plumpton WwTW

### Scope

A McGill Distributor was installed to replace an existing electric driven rotary arm at Plumpton WwTW.

### Challenge

This treat all flows site was handicapped by rotational issues and an undersized unit that was causing excessive water level build up in the primary tanks. A secondary fixed storm distribution system had been installed to help cap water level build up; but operation of this was handicapped by outlet blockage as flows were rising above the scum board. An economical solution was sought to ensure rotation in all flow conditions and to better control water levels upstream of the filter bed.

### Outcomes

Installation of the McGill Distributor increased maximum pass forward flow to 10l/s without overtopping of the existing primary tank outlet and scum board arrangements; whilst providing reliable zero energy rotation for flows that have ranged from 0.1l/s to 10l/s. This has secured the existing asset as both a reliable secondary treatment stage and stable foundation for supporting tertiary treatment systems.

