

The 'Fix and Forget' solution at Rasharkin WWTW

Installation of the McGill Distributor aids optimal performance at the Rasharkin WWTW.



Rasharkin WWTW

Works

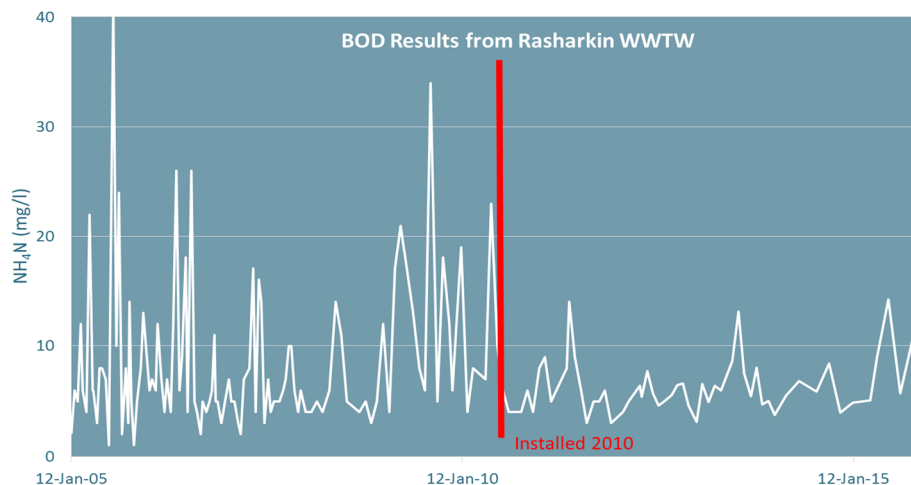
Incoming gravity flows are treated by a conventional process at the Rasharkin WWTW; with secondary treatment provided via two 18m diameter stone media filter beds. In 2010, as part of base maintenance works, two McGill Distributors were installed to optimise the existing assets and safeguard the future compliance of this 1847PE works against a Registered Discharge Standard of 40:60 (BOD; SS).

Impact

Installation of the McGill Distributors has enabled the diurnal gravity flow to drive a variable flushing pattern across the stone media, helping regulate biomass thickness, fully exploit available surface area of the stone media and maximise air flow throughout the media column. This has aided NIW in achieving optimal performance from these assets.

Results

The impact of the McGill Distributor at Rasharkin has been seen in a 50% range reduction in final effluent BOD quality; providing the process certainty for NI Water to 'Fix and Forget' at the Rasharkin WWTW.



Rasharkin WWTW BOD results 2005 through 2015¹

¹ Data Sourced from Northern Ireland Environment Agency