

RBC Retrofit for Denitrification



Case Study Details

The Foxboro WWTP had some non-performing Rotary Biological Contactors (RBC's) for de-nitrification. The Region decided to replace these using Moving Bed Bioreactors (MBBR) by H2Flow.

A total of thirty cubic meters of Biowater BWT-X MBBR Media, providing 650 m² of media/m³ of volume, was divided among three different RBC tanks. The surface area of the MBBR media provides a substrate for the attachment of de-nitrifying microorganisms under anoxic conditions.

H2Flow supplied top mounted slow speed mixers, media retention sieves, and carbon source dosing systems for each tank.

Engineering Consultant: Stantec

Installation Contractor: Sona

Start-Up: May 2018