

## Charing Nitrate Removal Scheme

**Client:** Mid Kent Water plc

**Principal Contractor:** Halcrow Water Services Limited

**Contract Award:** August 2005

**Beneficial Use:** July 2006

### Project Description

The Charing nitrate removal scheme was to provide a new nitrate removal system for Charing Borehole No 2 supply, in the existing Charing Borehole No 1 Building. Borehole No 1 had been abandoned due to low yields. Key to award of this project was the efficient use of the limited space within the existing building, offering challenges throughout the project and highlighting Ovivo's capabilities to deliver a bespoke and high quality solution. On-site work included installation of mechanical and electrical plant and commissioning. Ovivo were responsible for the design, supply, shop assembly, site installation and commissioning of the NITRASEP® ion exchange plant, including all ancillary equipment, electrics and controls.



### Plant Specification

Site flowrate: 8 – 25 m<sup>3</sup>/h  
 Design life: 20 years

Feed nitrate: 106 mg/l as NO<sub>3</sub>  
 Blended nitrate: < 43 mg/l as NO<sub>3</sub>