

Aquabio Industrial Clients

Unilever
Bakkavör
Kanes Foods
RHM Foods
Premier Foods
UNIQ
Simpsons Malt
Muntons Malt
Greenergy Biofuels
Universal Beverages (UBL)
Diageo
Ineos
Simon Storage
DEFRA
Carillion
Solutia
G's Beetroot
BOC Linde
Pittards Tanneries
NCT & Scottish Leather
St Regis Paper
General Mills
Northern Foods
BLC Leather
AGBAR Barcelona
SITA Swire
Dawn Foods
Bulmers, Ireland
Veolia
Synthomer
SI Group

Aquabio Municipal Clients

Thames Water
Southern Water
United Utilities
States of Guernsey Water Board
Essex & Suffolk Water
Scottish Water
Yorkshire Water
Northumbrian Water
WessexWater
Anglian Water

Aquabio Ltd

Food, Beverage, Brewery, Distillery, Chemical, Pharmaceutical,
Pulp & Paper & Municipal

Aquabio House

Ball Mill Top Business Park

Hallow, Worcester WR2 6LS

Tel: 01905 641966

Email: info@aquabio.co.uk

Web: www.aquabio.co.uk

Leader in energy efficient wastewater reuse

Pilot Plants for on site trials



Wastewater Treatment & Reuse

Membrane Bioreactors

Ultrafiltration, Nanofiltration & Reverse Osmosis

Jet & Slot Aeration

Anaerobic Wastewater and Solids Digestion

Moving Bed Biofiltration (MBBF)

Nitrogen & Phosphorus Removal

Physico-Chemical Processes



Treatment & Reuse of Wastewater

Industry and municipal authorities are looking closely at wastewater reuse. For over ten years Aquabio has been a leader in large scale wastewater reuse to potable standards.

The first plant in the UK to recycle wastewater with contact on food was constructed by Aquabio in 2000. This plant is still operating and has been extended due to further factory growth and the need for up to 70% wastewater reuse.

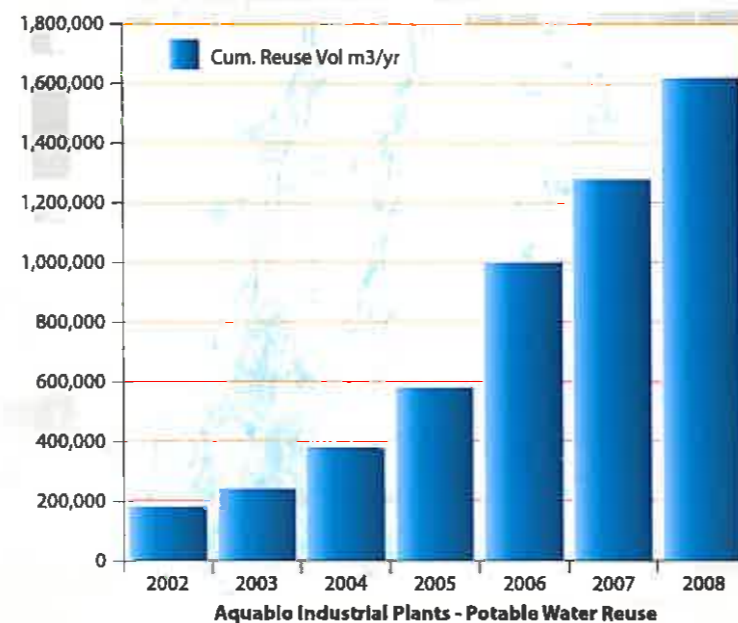
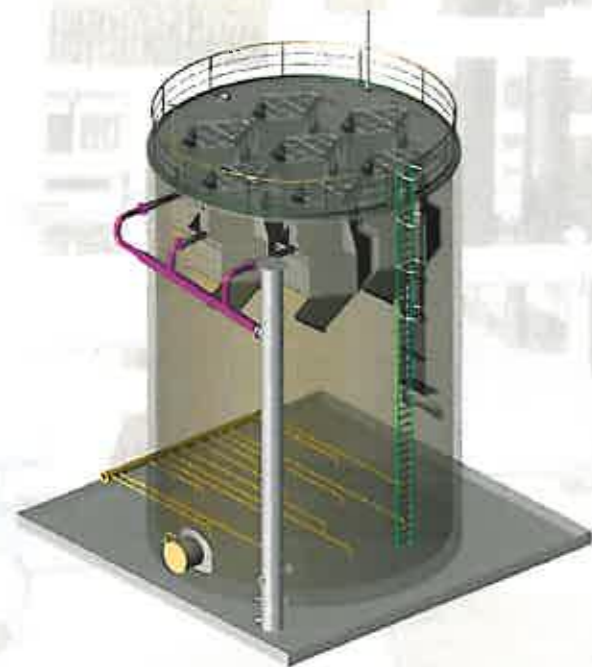
Aquabio combines proprietary technologies, including anaerobic, high flux and energy efficient Membrane Bioreactors (MBR), Ultrafiltration (UF), Nanofiltration (NF), Reverse Osmosis (RO) and disinfection techniques to guarantee potable, or demineralised water, for safe consumption or reuse in upstream factory processes.

Aquabio has the experience and pedigree that clients need to ensure that strict specifications are met for consistent, high quality recycled water.

With operating plants in all types of industries Aquabio has the in depth knowledge and understanding to provide the most effective solution for your needs.

AQUABIO PROVIDES:

- Process and engineering evaluation
 - Pilot plants
 - Laboratory trials
- Turnkey design and build
- Process design, engineering and project management
- Specialist equipment supply
- Upgrade of existing plants
- Service and process support



ANAEROBIC PRETREATMENT, MBR, UF, NF & RO

Aquabio is the UK Leader in large scale industrial wastewater reuse. Proprietary technology, knowledge and experience means reliable, robust and cost effective treatment and recycling. Either as a new build or upgrading an existing plant, Aquabio is your trusted partner.



NUTRIENT N & P REMOVAL

Whether it is 'bulk' or tertiary nitrogen or phosphorus removal, Aquabio can help. Moving bed biofilters (MBBF) remove ammonia and nitrate, as well as BOD and suspended solids from final effluent, with modular units at flows of up to 3600m³ per hr. Multi stage biological plants, including MBR, have also been applied for 'bulk' nitrogen reduction to levels <10mg/l nitrate.

MBBF, Dissolved Air Flotation (DAF) and lamella separation are also used for wastewater pretreatment (solids, fat and oil removal) or to meet stringent consent levels for phosphorus.



SLOT & JET AERATION

- Very low maintenance
- No biofouling or deterioration in performance
- Low installation costs
- High alpha factor
- High shear for improved efficiency in MBR biomass
- Dry pump installation
- Deep tank operation, up to 10m
- Oxygen retrofit possible
- Separate control of mixing and aeration
- SBR/Batch and denitrification options
- Flexible and versatile tank geometry

