



## Effluent Management and Water Treatment System Support

Arthian can support you with water and wastewater treatment requirements from identification through to optioneering, design, specification and commissioning.

Arthian also has the expertise to advise on an optimal Total Water Management Solution. The (TWM) model will identify the following; water conservation opportunities, optimisation of water consumption, water re-use and water recycling possibilities. Arthian has therefore got the capability to advise on any technology, integrated systems, optioneering and innovation processes that can lead to substantially less final effluent produced.

## Our core areas of expertise include:

- Production of design basis and plant/equipment specification for tendering new effluent treatment works.
- Effluent flow and load surveys, backed by ultrasonic flow metering and composite sampling
- Effluent management solutions upstream of treatment, e.g. high contamination source segregation
- Assessment of existing site effluent treatment systems
- Optioneering studies for treatment upgrades, incorporating consideration of best available techniques (BAT)
- Assistance during the tendering process (assessing tender returns, auditing of works on site)
- Onsite treatability testing to evaluate potential treatment effectiveness
- Effluent bill validation
- Water Treatment Engineering
- Application and Dosage Technologies
- Solid-Liquid Separation Processes
- Liquid-Liquid Separation Processes
- Designing of Membrane Treatment Process Plants (MF, UF, NF, RO, & EDI)
- Membrane Bio-Reactors
- Water Clarification and Purification processes
- Waste Water Treatment processes
- Complex Effluent processes

## Our core areas of expertise include:

- Development of over 800 water effluent efficiency action plans and treatment solutions across a diverse range of private & public sector clients
- Leading consultancy providing water and effluent management support on behalf of Zero Waste Scotland, Scottish Enterprise, Invest Northern Ireland and water retailers in the U.K
- Water and effluent implementation support to over 300 organisations across the U.K
- Development and delivery of the University of Strathclyde, Industrial Water and Effluent Management module
- Producing trial plans for new effluent technology solutions as part of the Hydro Nation Water Innovation Service

**Please contact James Forbes at [james.forbes@arthian.com](mailto:james.forbes@arthian.com) or [info@arthian.com](mailto:info@arthian.com) if we can support your water and effluent management requirements.**



[info@arthian.com](mailto:info@arthian.com)



[www.arthian.com](http://www.arthian.com)



+44 0141 227 2300

