

Pipelines & Pumping Mains

Waterco is a specialist water consultancy, which offers planning, engineering and management services for pipelines. The company and its consultants are able to offer a full range of specialist services including:

- System flow diagrams and route selection
- Ground investigation procurement and geotechnical appraisal
- Design of anchor blocks and thrust blocks
- Pipe components and connection details
- Buried pipeline embedment assessment
- Above ground pipe support and stress analysis
- Piping layouts, hydraulic modelling and surge analysis
- Pump selection and procurement
- Design of pumping station controls and instrumentation
- HAZOP studies
- Pipeline and pumping main operational reviews
- Trunk main strategies
- Condition assessments and refurbishment planning
- Supervision of testing and commissioning
- Strategic repair stock assessment

Waterco offers a network of specialists with expertise in route appraisal, hydraulics, surge analysis and pump selection to assist in the planning and design stage of a project. In addition engineers with many years of experience in the supervision of pipelines are available to offer advice on the construction and commissioning stage. This means that the most appropriate resources are utilised as the project develops from inception to completion.

Pipeline projects have included thrust bores and river crossings. Substantial experience has been gained in trunk main crossing connections.

Our network of specialists have an extensive track record of successfully completed pipeline and pumping main projects.

PLANNING STAGE

Route Appraisal

Cost Options

Material Selection

Pump Costs

Energy Costs

Control Systems

DETAILED DESIGN

HARA Appraisals

Hydraulics

Surge Analysis

Thrust Blocks

Pump Selection

Connection Details

CONSTRUCTION PHASE

Design Support

Quality Checks

As Built Records

Test Verifications