

# WATERWERX

## Capability Statement

Waterwerx is an experienced and trusted engineering and systems designer providing cost effective, high performance, custom water and waste treatment solutions to government, industrial, and private organisations since 2009.



### WHAT WE DO

We deliver innovative but practical water and waste treatment solutions, utilising our broad based systems engineering knowledge and experience to integrate proven commercial, and proprietary, technologies to provide optimised solutions for our clients.

At Waterwerx we believe the best solution is one that provides certainty where it matters:

- Ease of deployment
- Water quality
- Robustness and Reliability
- Operational and Through-Life Cost
- Service and support

#### PROCESS REVIEW

- Environmental
- Economic
- Risk Assessment

#### SOLUTION ENGINEERING

- Analysis
- Design
- Build

#### SYSTEM INTEGRATION

- Procurement
- Installation
- Commissioning

#### OPERATION, MONITORING, CONTROL

- Remote Monitoring
- Automated Control
- Process Optimisation
- Consumables - H/W, Chemistry

#### MAINTENANCE, RETROFIT

- Periodic Maintenance
- Overhaul
- Upgrade / Retrofit

- Single solution provider
- Build, Rent, Run
- Performance based contracts

# WATERWERX



## AT OUR CORE

Waterwerx is an agile, independent systems designer, engineered solutions integrator with the capability to be the single source turn key supplier for unique solutions , system performance improvement, through to “complex retrofit environment”.

We have the in house technical capability to analyse/appraise the solution environment, propose and mathematically prove the suitability of an engineered solution, and deliver, commission, and maintain project outcomes balancing capital investment and operational expenditure, for the best value performance.

Our team at Waterwerx can provide:

### Process Review

- **Application review**
- **Wastewater audit**
- **Economic analysis**
- **Risk assessment**

### Solution Engineering

- **Consulting engineering**
- **System design and build**

### Systems Integration

- **Procurement**
- **Installation**
- **Commissioning supporting**
- **Maintenance schedule design**

### Operation, Monitoring and Control

- **Remote monitoring of plant and equipment to ensure performance, and provide for maintenance planning.**
- **Video enhanced monitoring for safety, security and process control**
- **Process optimisation utilising advanced sensing and control algorithms for maximum water quality and minimum consumable cost.**
- **Consumables supply including membranes and other hardware consumables, treatment chemicals - acid, alkali coagulants and flocculants, boiler, cooling tower and membrane cleaning chemicals . Waterwerx is a channel partner of GE.**
- **Maintenance**
- **Scheduled and unscheduled maintenance services.**
- **Overhaul and retrofit.**

## Capability Statement



### AVAILABLE TECHNOLOGIES

Our philosophy is to use a range of technologies in order to create the optimal solution for our customers. We do not limit ourselves to any one technology suite or engineering solution/methodology, instead we work with trusted technology partners who along with us drive design innovation that has been proved in complex and difficult applications. Our technologies include:

#### Membrane Filtration

- Ultrafiltration
- Nano-filtration
- Reverse Osmosis

#### Physiochemical Separation

- Dissolved Air Flotation
- Enhanced clarification
- Hydrocyclonic separation

#### Biological

- Activated sludge
- Sequential Batch Reactors
- Trickling Filter
- Membrane Bioreactors

#### Dewatering

- Decanters
- Press filters
- Screw presses
- Belt presses

#### General Engineering and Fabrication

# WATERWERX

## Capability Statement



### WHO DO WE WORK WITH?

Our customer base is as diverse as the technical challenges within the water treatment market itself. Our experience includes:

- Meat Processing plants – abattoirs, rendering plants and integrated facilities.
- Edible Oil Manufacturing
- Oil and Grease Waste Recycling
- Sewage plants
- Desalination
- Ink Manufacturing
- Textile plants
- Wine industry
- Dairy industry



### HOW ARE WE DIFFERENT?

#### Responsive

At Waterwerx we pride ourselves on being a responsive, innovative and a reliable provider of water treatment solutions that represent the best possible value to our customers.

#### Total Solution Supplier

Waterwerx is truly a single source supplier of design services, hardware, control software, chemicals, consumables, installation, service and maintenance. From Process Review through to equipment Operation, Monitoring and Maintenance, and end of life upgrade Waterwerx has the experience and expertise to effectively manage your water treatment solution.

#### Focus on Operational Cost

Our use of advanced instrumentation and remote monitoring including video, as well as intelligent adaptive process control, allows Waterwerx to maximise uptime, reduce maintenance, reduce consumable usage (hardware and chemistry) and most importantly reduce the OPEX of the installation.

#### Flexibility

Waterwerx is not only an equipment supplier, we are able to quote and install turnkey engineered solutions on tailor made commercial contracts -The aim is to reduce operational risk and potentially convert a CAPEX budget to more manageable Operational Expense.

#### ***The Waterwerx success formula....***

***Listen to our customers, and then deliver a high quality, cost effective and reliable engineered solution.***