

CAPABILITY STATEMENT

ABOUT US

Water Resources offers professional engineering services and advice in the planning, design, development and management of bulk water storages and water conveyance systems to customers as diverse as mining and energy industries, local and state governments, water supply boards, contractors and consultants. Water Resources assists its clients to meet their water needs by providing effective workable solutions that meet the technical, institutional, regulatory, economic, and environmental challenges facing their water supply.

The Water Resources team come from a service delivery background having worked in water utilities for a combined period of over 40 years prior to consulting. This owner's perspective enables us to provide effective water supply solutions drawn from experience for the benefit of our clients. Water Resources understanding of the regulatory standards means we understand how to provide informed advice and streamline project delivery to minimize time, cost and provide certainty of supply.

Working with other highly respected and skilled professionals through an extensive network of industry partnerships, Water Resources is able to bring together a range of skills, expertise and experience to provide quality service which meets the needs of clients.



Services

- ✓ Strategic Water Planning
- ✓ Investigation Studies
- ✓ Sourcing Water Entitlements
- ✓ Business Cases
- ✓ Water Infrastructure Design
- ✓ Project Development
- ✓ Project Delivery Support
- ✓ Dam Safety

Contact Us

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OUR SERVICES

STRATEGIC WATER PLANNING

- Identification of strategic drivers and service need requirements
- Development of strategic assessment frameworks to enable ongoing development and assessment of water supply projects and non-infrastructure initiatives
- Facilitation of workshops to optimise strategy approaches and achieve buy-in from key stakeholders
- Development of specifications and engagement of technical services to support assessments
- Establishment and management of technical advisory panels
- Creation of public facing strategy documents to communicate strategy initiatives and achievement of objectives

INVESTIGATION STUDIES

- Feasibility studies
- Water supply options studies
- Concept development
- Scheduling
- Project cost estimating
- Economic evaluations and water pricing

SOURCING WATER ENTITLEMENTS

- Confirming availability of allocations
- Factors impacting seasonal trading prices
- Long term valuations of allocations
- Cost benefit trade offs between priority groups
- Approaches to market
- Negotiation of contract terms including supply and distribution
- Discussions with Departmental staff and other stakeholders

WATER INFRASTRUCTURE DESIGN

Design of bulk water storages such as dams, weirs and offstream storages including:

- Dam type comparison and selection
- Spillway hydraulic analyses and design of terminal structures
- Scour assessment
- Stress and stability analyses
- Flood routing
- Freeboard analyses
- Slope protection
- Seismic design
- Pore water pressure and seepage assessment
- Filter design
- Intake, conduit and outlet works design
- Fish transfer system design
- Refurbishments and upgrades of bulk water storages

Design of water conveyance systems such as pipelines and channels including:

- Route selection
- Hydraulic analyses
- Pipe type comparison and selection
- Trench design
- Pipeline and pump station system optimisation
- Pipeline and channel grading
- Thrust block design
- Air valve, scour outlet and control structure design
- Water hammer analyses
- Augmentation of pipelines and channels



OUR SERVICES

BUSINESS CASES

- Business case planning, governance, and delivery
- Assessment of service needs and facilitation of Investment Logic Mapping
- Initiative development and options analysis
- Management of technical studies including economics, financial, social, environmental, and sustainability analysis
- Stakeholder engagement
- Ensuring compliance with Queensland Treasury's Project Assessment Framework and DSDLGIP's Business Case Development Framework
- Gateway review services (the Water Resources team are certified gateway reviewers)

PROJECT DEVELOPMENT

- Delivery strategies and procurement planning
- Technical specifications
- Special conditions of contract
- Technical advice
- Value engineering
- Risk and opportunity assessment
- Risk adjusted capital cost and whole of life cost estimation
- Budget establishment and contingency allocation
- Project planning, scheduling and controls



PROJECT DELIVERY SUPPORT

- Project governance and reporting
- Independent project progress reviews
- Due diligence reviews
- Project management
- Client representative services
- Contract administration and superintendent services
- Technical review panel services
- Owners engineer services

DAM SAFETY

- Monitoring and surveillance evaluation
- Engineering inspections
- Dam safety reviews
- Comprehensive risk assessments
- Safety assessments
- Design of dam safety upgrades
- Upgrade project plan reports
- Certification of dam safety works

