



AWE is a South Australian based consulting firm providing sustainable and innovative engineering, water resources, planning and natural resource management solutions for the community and our clients. Our team of professional and support staff has strong technical capabilities in hydrogeology, hydrology, civil and environmental engineering, integrated water resources management, groundwater modelling, ecology, spatial services, environmental management and planning, consultation and community engagement and data management.

Professional, independent land and water solutions benefiting people and the environment.

AWE Capabilities:

- Hydrogeology
- Hydrology
- Civil Engineering
- Environmental Engineering
- **Integrated Water Resources Management**
- Groundwater Modelling
- Ecology
- Spatial Services
- Environmental Management
- Environmental Planning
- Consultation and Community Engagement
- Data Management

Integrated Water Resources Management

Urban expansion, drought, degraded and depleted water resources and watercourses have changed the way we view water, leading to a more holistic approach to water resources management. For many communities new and ongoing realities point to a water constrained future unless water resources are more effectively managed and utilised. Conventional water resources management strategies are required to be integrated with contemporary principles such as Water Sensitive Urban Design and Stormwater Management Planning to address current and future water supply and water demands.

AWE has been at the forefront of integrated water planning since the company's inception. We have significant experience in developing integrated water management plans to strategically assess and prepare for increasing demand for water from a variety of users, the impacts of extended drought, the needs of the environment and potential climate change scenarios. We have demonstrated expertise of planning for sufficient water resources whilst acknowledging the challenges of providing for future growth with limited water resources.



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Port Augusta Integrated Water Management
 AWE is assisting in the development of the "Waterproofing the City" project for the City of Port Augusta, which includes wastewater and stormwater reuse options.

Port Augusta Infrastructure Plan
 This study broadly identifies the infrastructure requirements (roads, power, water etc) across the Port Augusta area for assumed future population growth scenarios.

Stirling North Stormwater Management Plan
 Development of a Stormwater Management Plan for the expanded township of Stirling North for Pt Augusta City Council.

Whyalla Integrated Water Management
 Integrated Water Management studies have been carried out and include stormwater harvesting options and Managed Aquifer Recharge investigations.

Whyalla Flood Risk Study
 The assessment included reviewing climatic data, developing terrain models, mapping inundation areas and reviewing council infrastructure to quantify the risk of flooding.

Goyder Flood Risk Study
 AWE was contracted by the Goyder Regional Council to assess the flood risk to regional centres. Our focus was to develop a series of hydrological models for each township, as well as developing a simplified regional hydrological assessment model that could be used to predict flow rates for selected road crossings and other points of particular interest to council.

Hamley Bridge Community Water Reuse Project
 AWE was engaged by Wakefield Regional Council to provide a feasibility study on the various water harvesting options for irrigation of the town's recreational facilities and gardens.

A Catchment Plan for Clare
 The major component of this work was assessing flood risk by developing hydrological and floodplain numerical models. The project also included developing strategies for water quality improvement and stormwater reuse.

Coastal Vulnerability Assessment - Yorke Peninsula
 Assessment of the climate change impacts on Yorke Peninsula incl. identifying the natural and built 'assets' most at risk, appropriate (& costed) adaptation responses, and the implications for government planning and approval processes carried out for the Department of Climate Change.

Truro Integrated Water Management
 Development of an IWMP for the town of Truro utilising the various sources of water available and MAR.

Two Wells Stormwater Master Plan
 The plan developed an understanding of the drainage regime of the township. Concept level stormwater harvesting and MAR strategies were developed in conjunction with stormwater management works.

Karoonda Integrated Water Management
 The plan assessed all aspects of the water cycle to determine how water could be best utilised and managed for the benefit of the town. Reducing the town's reliance on the River Murray was a key driver for the plan.

Murray Bridge Integrated Water Management
 AWE recently developed an Integrated Water Management Plan for the Rural City of Murray Bridge. The plan includes potential actions and projects to reduce demand on the River Murray and utilise stormwater and wastewater resources.

Relevant Project Locations

LEGEND

○ Town	— Morgan - Whyalla Pipeline
— Major Road	■ Waterbody
— Major Watercourse	

Data Source:
 Towns, waterbody, watercourses: Geoscience Australia; Digital Elevation/Hillshading: USGS;
 Roads: PIRSA; AWE Projects: Australian Water Environments; Morgan - Whyalla Pipeline: SA Water.

