



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
- Statutory Planning
- Environmental Planning
- Consultation and Community Engagement
- Data Management

Water Sensitive Urban Design

Our capabilities include:

- Stormwater investigation and design;
- Hydrological, hydraulic and water balance modelling (1D and 2D modelling);
- Water quality analysis and modelling;
- Wetland design;
- Stormwater management planning;
- Construction management.



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Hindmarsh Island Stormwater Management System Design

AWE utilised WSUD features in the stormwater network design for a subdivision on Hindmarsh Island adjacent to the River Murray. The development was subject to stringent water quality requirements due to its location. The features included: grass swales integrated with infiltration systems and stormwater reuse, while maximising development frontage to the River Murray and providing flood protection.

Karoonda Integrated Water Management Plan

AWE developed an integrated water management plan for Karoonda. 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.



Two Wells Stormwater Management Plan

AWE prepared a stormwater management plan for the regional hub of Two Wells. DRAINS and road centreline surveys were used to develop a hydrological model of the area.

A Catchment Plan for Clare

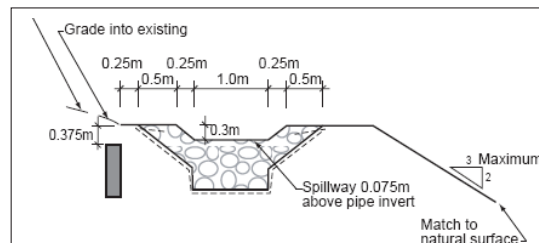
AWE developed strategies for water quality improvement, stormwater reuse, as well as reviewing council Development Plans for improving water quality and flood management. Flood risk was assessed and mitigation strategies developed through hydrological and floodplain numerical models.

Waterproofing the Barossa and Light Region

AWE prepared a waterproofing strategy for the Barossa and Light Region. The work involved developing water and salt balance models for the region. The models incorporate seasonal and annual fluctuations of available water resources and demands across all resources including rainfall, stormwater, stream flow and wastewater.

Gawler Triangle Stormwater Management

AWE undertook numerical modelling of the Gawler River Junction to assess the hydraulic and ecological impacts of removing the Gawler River Monitoring Weir. Stormwater flooding and water quality management strategies were developed based on review of the stormwater outlets and stream hydraulics and incorporated into the final detailed design.



Wasleys Storm Water Management Plan

AWE prepared a Stormwater Management Plan for Wasleys. AWE conducted consultation with the public, elected members and State Government agencies on the objectives for the plan. The capacity of the drainage network was assessed and mitigation strategies for drainage deficiencies were developed based on hydrological and hydraulic modelling using the DRAINS package. Stormwater harvesting opportunities were also assessed.



Water Sensitive Urban Design Framework

AWE lead the development of a Water Sensitive Urban Design policy framework for the Greater Adelaide Region for Planning SA. This Framework is currently being considered by government. Development of the framework also involved the development of a series of Technical Documents (including stormwater harvesting) that have recently been launched by government and a Capacity Building Program to support implementation of water sensitive design of built environments.

Ridge Park MAR Project

AWE undertook the design and documentation of the biofiltration bed aimed at treating 60ML/pa of harvested stormwater.

Deacon Avenue Upgrade and Truro Kerb Protuberances

AWE undertook design and documentation of Water Sensitive Urban Design treatment beds.