



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

# Civil Engineering

AWE has extensive experience in the planning and design of a wide range of civil engineering projects offering innovative solutions for our clients.

Our capabilities include:

- Residential and industrial subdivision masterplanning design and documentation;
- Siteworks grading and design;
- Tender documents and construction management;
- Stormwater investigation and design;
- Hydrological, hydraulic and water balance modelling-DRAINS, Hec-Ras, TUFLOW;
- Water Sensitive Urban Design (WSUD), water quality analysis and wetland design - MUSIC;
- Infrastructure masterplans and design;
- Integrated Water Management Plans (IWMP) and stormwater harvesting - Watercress;
- Water network investigation and design - Watercad, EPANet, Hammer;
- Wastewater network planning and design;
- Hydraulic services planning and design; and
- Coastal engineering and coastal management studies.



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## Port Augusta Infrastructure Plans

AWE prepared stormwater, potable water, wastewater and electrical infrastructure headworks plans to inform the future development of the City of Port Augusta including a more detailed assessment of land abutting the airport.

## Whyalla Recycled Water Main

AWE undertook detailed design and documentation of a water main to supply treated wastewater to two ovals in Whyalla.



## 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.

## Port Augusta West Residential Subdivision

AWE undertook detailed infrastructure master planning and preliminary design of a 390 hectare residential subdivision in Port Augusta.

## Northern LeFevre Peninsula Infrastructure Headworks

AWE undertook the detailed planning of infrastructure headworks comprising stormwater, wetland & MAR investigations. Staff from AWE undertook detailed planning of all transport infrastructure, site grading, water and waste water infrastructure and services infrastructure including an innovative pressure sewer system.

## Happy Valley Sports Park Upgrade

AWE provided stormwater design advice on WSUD aspects and prepared the development application for a \$3.5M upgrade of the sports park.

Members of the team undertook planning and design of a range of recreation facilities including new clubrooms, shared paths, tennis courts and other facilities.

## Coolum Resource Recovery Facility

AWE undertook planning and concept design for a 13,000 tonne per annum Best Practice Resource Recovery Facility and second hand goods salvage shop.

## Gawler River Flood Modelling

AWE developed a detailed two-dimensional model of the Gawler River floodplain from Gawler to the sea.

## Two Wells Stormwater Management Plan

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

## Port Hughes, Moonta Bay and Victor Harbor Coastal Management Studies

AWE is undertaking coastal management studies to identify adaptation and management options for protecting assets abutting the coastal edge.

