



SOUTH EAST FLOWS RESTORATION PROJECT

AWMA was engaged by Leed Engineering & Construction to supply over 120 water control devices for the South East Flows Restoration Project.

This \$60M project involves the construction of a new flow path to enable the delivery of up to 45GL per year from the Blackford Drain to the Salt Creek outlet and Coorong South Lagoon. In addition to delivering freshwater into the lower Coorong, the SEFRP also facilitates the supply of environmental water into a number of wetlands along the new flow path.




AWMA's water control solutions included a new diversion structure on the Blackford Drain featuring automated LayFlat gates and manually operated ULF penstocks. This regulator is responsible for holding water up in the Blackford Drain and for "pushing" the water toward the Coorong.

Over 120 water control devices including ULF Penstocks, Segmented Stopboards and Non-Return Flap Gates were installed along the length of the channel.

A new regulator and fishway was also installed at Morella Basin which included additional LayFlat gates and ULF Penstocks.

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GENERALLY SPEAKING

We all have a shared responsibility to future-proof Australia.

AWMA are motivated to making a difference, to contribute to projects that achieve greater water sustainability, to protect our vital water source.

We are involved in a diverse range of applications, working with project partners across all industries and all levels of the community.

Our latest product development of FloodFree Barriers, protects assets as sea levels rise and climatic conditions change.

The Murray Darling Basin Authority have rolled out many projects to assist sustainable water management across the basin, many of which benefit from AWMA infrastructure and management solutions.

AWMA have delivered water control gates into all major Irrigation Authority's distribution systems across the nation, as well as many irrigation systems worldwide.

Australia's Desalination Plants aim to future proof our capital cities' water supplies, the majority of which operate with custom AWMA water control equipment.

AWMA are assisting WWTP's owners and operators to improve efficiencies and the use of recycled water.

Stormwater harvesting is gaining traction as we work with local council to capture, distribute and reuse available water sources.

But most of all, we are future-proofing our ability to deliver these solutions; by building a team at AWMA that excels in the design, manufacture and delivery of innovative water control solutions, to benefit the present and benefit the future.



Brett Kelly
Managing Director

awma
Water Control Solutions

FLOODFREE

FLAP GATES FOR QLD MINE

Three round Flap Gates were pipe mounted for a mine in Queensland.

The Flap Gates were manufactured from marine grade aluminium and spigot mounted on ø1050 pipe to withstand 3m of operating head.

The design features dual adjustable pivot arms for robust operation and consistent sealing. AWMA Flap Gate Frames have a set incline percentage to ensure the natural door position is to seal under low differential head.



RIVERINE RECOVERY PROJECT

AWMA delivered the first, and now second package of the Riverine Recovery Project's Gate and Fish Screening requirements.

The Riverine Recovery Project focuses on using adaptive management and engineering solutions to restore more natural water flows to critical ecosystems along the River Murray.

AWMA supplied nearly 100 water control devices, custom designed to ensure they met all site and operational requirements. Products include triple leaf regulator gates, single leaf ULF penstocks, segmented stopboards, stainless steel fish screens, fish baffles, storage racks, lifting ladders and portable actuators.

AWMA partnered with Fulton Hogan Utilities to deliver the gated infrastructure across nine locations from Renmark to Mannum in South Australia.



Photo courtesy of Fulton Hogan Utilities.

GOOLWA TIDAL GATE

The Goolwa Barrage is located in South Australia, near where the River Murray completes its 2,530km journey.

The Barrage was constructed in 1940, to restrict salt water ingress into the river during tidal events, as well as maintaining water levels in the lower lakes.

The Goolwa Barrage is approximately 632m long, up to 7m deep, and contains a 30.5m by 6.1m lock chamber.

AWMA were engaged to custom design a water control gate to be retrofitted

within the existing drop board guides on the Barrage.

The downwards opening DLF gate is hydraulically actuated, allowing easy and safe management of flows, to control water levels, water quality and environmental outcomes.

Design features include sacrificial anodes, dual hydraulic cylinders and a solar powered hydraulic power pack.

FISH EXCLUSION SCREENS

In December AWMA attended Australia's inaugural Fish Passage Conference, Australia's First Symposium on Hydropower and Fish Management.

Following the conference, AWMA partnered with the North Central Catchment Management Authority and NSW Department of Primary Industries to host 40 international guests on a fish screen tour from Albury to Cohuna.

The tour included an inspection of the new Irrigation Diversion Offtake Fish

Screens and AWMA's FlowLab flow certification facility.

The majority of water flowing through our natural water ways is diverted through gravity or pumped offtakes, which also takes fish, larvae and eggs from creeks and rivers, depleting natural fish stocks and clogging water diversion infrastructure.

AWMA have designed a range of self-cleaning screens that can be customised for any type of gravity or pumped inlets from 10ML/D to 250ML/D per screen. They have been specifically developed to protect infrastructure and aquatic life, within Australian conditions.

Key design considerations include minimal head loss, ability to deliver guaranteed flow rates, debris, cleaning, maintenance and safety for asset owners and wildlife.

For further information visit our website or give us a call.

BE FLOODFREE

As flood waters continue to devastate our eastern states, AWMA continue to dedicate resources to the research and development of our FloodFree range of flood barriers.

Whilst AWMA have been assisting local councils with holistic flood mitigation solutions for decades, the FloodFree range provides viable and accessible options for commercial, industrial and residential flood prevention.

The FloodFree range of flood barriers and doors allows property owners/caretakers to manually or automatically deploy their own flood protection devices. Alternatively, 'passive' options will automatically deploy without the need for human or powered intervention.

The image below shows a FloodFree Demountable Flood Barrier that can be quickly and safely erected to any length and protect up to 3m high. They are usually used to protect areas where levee banks open to provide access for roads, rail and pedestrian crossings.

Check out the www.floodfree.com.au website for details.



FLOODFREE

RECENT PROJECT GALLERY

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FLOOD | ENVIRONMENTAL | IRRIGATION | WATER TREATMENT | DAMS | ENERGY & RESOURCES

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