



FLOOD PROTECTION FOR CRITICAL TUNNEL INFRASTRUCTURE

The West Gate Tunnel Project was one of Melbourne's most significant transport upgrades, delivering essential improvements to freight efficiency, congestion reduction and network reliability across the city's west. Flood resilience is an important consideration in the design of major tunnel infrastructure.

To safeguard the West Gate Tunnel against water ingress during extreme weather events, AWMA was engaged to deliver a dedicated flood protection system for the inbound ramp. Engineered specifically for the site, the solution provides a manually deployed flood gate arrangement designed to protect the tunnel portal from inundation.

The system incorporates a recessed frame and modular flood gates that can be installed when required, creating a continuous barrier against rising floodwaters. Designed to perform during events between the 50 year Average Recurrence Interval (ARI) and Probable Maximum Flood, the solution supports both operational continuity and long term asset protection.

AWMA also supplied purpose designed lifting systems to enable safe, efficient deployment and storage, ensuring the flood protection measures can be rapidly installed when needed, without compromising site safety.

The West Gate Tunnel Project demonstrates the importance of integrating engineered flood mitigation into major transport infrastructure from the outset.

Through close collaboration with project partners, AWMA delivered a reliable, flood mitigation solution that helps keep one of Melbourne's most critical transport corridors protected.

Visit the [project page of the NEW FloodFree Website](#) to learn how flood barrier systems are helping protect critical infrastructure during extreme weather events.

GENERALLY SPEAKING

As always, this newsletter reflects the wide range of projects and industry sectors that AWMA works across.

AWMA regularly partners and participates in projects that support positive environmental outcomes or protect assets from environmental events. Nearly every project that we are involved in delivers, to some degree, a beneficial environmental result.

Our water control gates are used across a broad range of applications, including improving the efficiency of water processing in recycled water treatment plants, managing environmental water flows, providing spill containment at airports and industrial sites and managing stormwater before it enters our creeks and rivers. These solutions play an important role in supporting essential water services, while also protecting downstream urban and natural environments.

Our screen installations have already been attributed to saving millions of native fish that would have otherwise left their natural waterways through irrigation and industrial water extraction systems. In other applications, screening systems play an important role in preventing invasive species from entering and impacting native environments. AWMA's self-cleaning screens are also widely used to pre-filter raw water for potable water treatment plants, significantly reducing treatment intensity while improving overall system performance.

AWMA's FloodFree flood barriers have been deployed to protect some of Australia's critical assets from the environmental impacts of overland and flash flooding. These barriers protect hospitals, underground railway stations, police facilities, government buildings and as highlighted on the front page of this newsletter, critical tunnel infrastructure. Flood barrier systems protect critical assets during extreme weather and support a rapid return to service.

We are privileged that our company and team can contribute to positive environmental outcomes in a world that is increasingly challenged by environmental pressures.

Another area that challenges the world, is war.

While the conflict in the Middle East is affecting many people, far more directly than us in Australia, it is also having a global impact, on businesses and communities.

AWMA have been proactively working with our suppliers and logistics partners to forecast potential impacts and minimise cost pressures where possible, ensuring continuity of supply. To date, through the co-operation and support of our supply partners we have successfully limited cost impacts and potential supply risks, preventing disruption to production and delivery.

For everyone's sake but mostly for those directly affected, we hope the war will be over very soon.



Brett Kelly
Managing Director



HIGH PERFORMANCE FLAP GATES STRENGTHEN RIVERBANK RESILIENCE

AWMA played a key role in the successful delivery of the Cornwallis Road Culvert Upgrade, a critical flood mitigation project that restored access and strengthened long term resilience along the Hawkesbury River in NSW. Following extensive damage caused by the 2022 flood event, major remediation works were required to reinstate and protect the road and surrounding riverbank.

Delivered through challenging conditions, including four separate flood events during construction, the project involved extensive excavation, foundation improvements and the installation of high performance stainless steel flap gates. Engineered to withstand up to 11.5 metres of head pressure, these water control gates provide reliable backflow prevention during flood events while allowing efficient discharge under normal conditions.

The completed works have reconnected Cornwallis Road, improved flood resilience, and delivered a durable infrastructure solution designed to perform during extreme conditions.

[View the full project on our webpage to learn more about AWMA's flood resilient infrastructure solutions.](#)



FLOODFREE PROTECTION FOR HISTORIC HOTEL

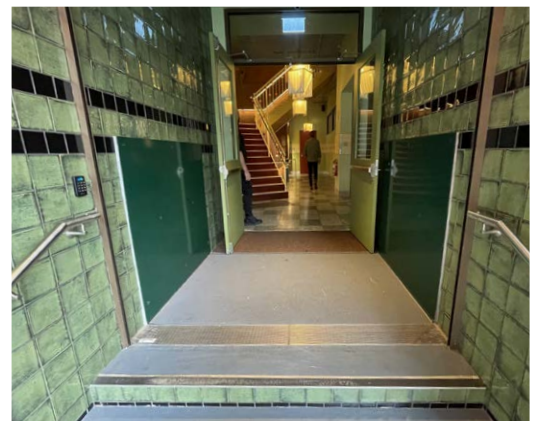
AWMA's FloodFree division was proud to support the Waterside Hotel Redevelopment in Melbourne's CBD, delivering a discreet and highly engineered flood protection solution for one of the city's most historic landmarks.

Five custom-designed Passive Tilting Flood Barriers were required to protect the heritage structure and its modern expansion from flood risk.

Specified through detailed flood modelling, the self-activating barriers deploy automatically in response to rising floodwaters, without power or manual intervention ensuring reliable protection for occupants, critical infrastructure and ongoing business operations.

Carefully integrated into the restored Victorian façade and surrounding streetscape,

the FloodFree solution demonstrates how effective flood mitigation can be achieved without compromising architectural integrity.



[Visit the webpage for additional photos and information.](#)

SPECIALISED GATE SOLUTIONS FOR DAM INTAKE

AWMA delivered specialised water control solutions for the Eurobodalla Southern Water Supply Storage Dam, a major off river storage project strengthening long term water security for the Eurobodalla Shire in NSW.

Delivered in partnership with Haslin, the project involved the construction of a 3,000 ML storage dam and associated intake and transfer systems. AWMA's contribution focused on the design and delivery of highly specialised intake tower water control solutions, engineered to operate safely and reliably under exceptional head pressure conditions.

Central to the installation was a DN1500 AWMA WLF Penstock, purpose designed to perform under a 41 metre head, a demanding requirement rarely encountered in traditional water infrastructure projects.

The solution was supported by innovative screening, isolation and pressure relief systems, developed to enhance operational flexibility, safety and long term asset protection.

Together, these systems demonstrate AWMA's capability to deliver bespoke water control infrastructure for complex, high performance dam applications.

[Visit the webpage to learn more about AWMA water control solutions for dam applications.](#)



FISH FRIENDLY WATER EXTRACTION IN ACTION

AWMA is proud to support the Queensland Fish Friendly Water Extraction Project, demonstrating modern fish screen technology across Southern Queensland river systems.

Funded by the Australian Government and delivered in partnership with the Queensland Government and Southern Queensland Landscapes, the project showcases how customised, fish friendly screening solutions can protect native fish while delivering reliable water extraction and ongoing benefits for landholders.

From site specific screen design to solar powered control systems, this program highlights the practical benefits of modern fish screening in real world operating conditions.

[Read the full project overview on our website and learn how fish friendly water extraction infrastructure is delivering environmental and operational benefits.](#)



INNOVATIVE - CUSTOMISED - SUSTAINABLE

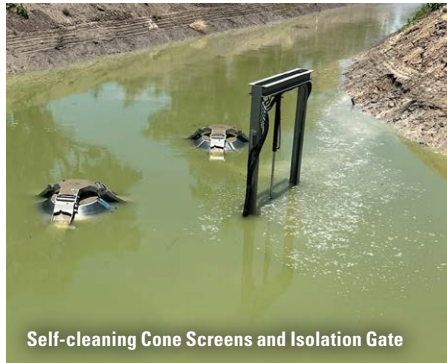
RECENT PROJECT GALLERY



Deploying West Gate Tunnel Flood Gates



West Gate Tunnel Flood Gates Installed



Self-cleaning Cone Screens and Isolation Gate



Stainless Steel Combination Gate



Tilting Flood Barrier Deployed viewed from outside

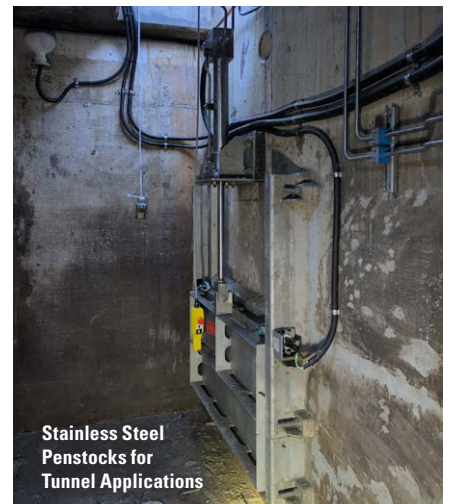
Tilting Flood Barrier Deployed viewed from inside



Self-cleaning T-Screens



FloodFree Passive Tilting Flood Barrier Protects Train Station Lift Shaft



Stainless Steel Penstocks for Tunnel Applications

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



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