awma Water Control Solutions
Certified System Quality ISO 9001 SAI GLOBAL
SEPTEMBER 2011
NEWS
EDITION 21

DESIGN - MANUFACTURE - INSTALL

STOPBOARD SUCCESS

AWMA's innovative stopboard solutions benefit a significant number of projects. Traditionally a penstock supplier, AWMA are leading the way in proven stopboard design.

Hundreds of AWMA segmented stopboards, stop logs and bulkheads have been purpose designed to accommodate features including pressure equalisation values, topsealing, storage solutions and automated lifting frames. Applications requiring up to 25m of head pressure have resulted in stopboards that withstand hydrostatic loads in excess of 200 tons, with leakage rates less than 0.5 l/m/min.

AWMA's unparalleled experience in water control solutions minimises client risk. To date AWMA has successfully installed modular stopboard structures Australia wide for flow isolation within wetland, dam, irrigation and environmental applications, as well as billion dollar projects for Sydney, Perth and Victorian desalination plants.

DESIGN - MANUFACTURE - INSTALL

GENERALLY SPEAKING

Throughout the ages, innovation has led to rapid advances in the way we live and operate.

Innovation is the key to continuous improvement delivering lower costs, safer operations and better environmental outcomes.

I am sure some may argue that advancing technologies have created a lot of the environmental challenges we currently face, but now with greater knowledge we trust the next round of innovation will be more sustainable.

AWMA have always had a strong focus on sustainable innovation, not just in infrastructure design but in all aspects of our business.

Every project is seen as an opportunity to deliver innovative solutions. The most successful results are achieved when our clients are also looking for the best outcomes and we work in partnership with fluid communication.

Over the years we have worked in close contact with asset owners and contractors to deliver outstanding project solutions.

Next time you approach AWMA with a water control challenge, be prepared to work with an innovative company looking for a better than standard solution.

Brett Kelly
Managing Director

TUNNELLING SOLUTIONS

John Holland Tunnelling engaged AWMA to assist with two high profile Melbourne Water projects worth almost $500million.

The Melbourne Main Sewer Replacement Project and The Northern Sewerage Project are major infrastructure upgrades that will deliver environmental benefits and increase the capacity of the sewerage system in Melbourne suburbs.

The infrastructure for these projects required significant engineering. AWMA's unique capacity to achieve innovative designs using grade 2507 stainless steel resulted in custom manufactured products that exceeded all requirements. AWMA supplied flow control gates, actuation systems and storage structures including a Round Bottom Penstock (pictured below) custom designed to seal against the benched sewer profile.

7 METRE STOPBOARDS

Construction is underway on a major $418 million upgrade of Melbourne Water's Eastern Treatment Plant (ETP).

Melbourne Water teamed with Baulderstone, UGL Infrastructure, Black & Veatch and KBR to form the Eastern Tertiary Alliance (ETA). The alliance has engaged AWMA to supply 37 TLF Penstocks to be operated via electronic and pneumatic actuation systems. Segmented stopboards were supplied complete with lifting equipment to form a modulating control structure over seven metres high.

The ETP processes 40% of Melbourne's sewage. Upon completion in 2012, this upgrade aims to increase the potential for more recycled water use. The current works are only one of many ETP projects AWMA have successfully delivered.

PORTABLE ACTUATOR BENEFITS SYDNEY WATER

Process Engineering Technologies (PET) engaged AWMA to supply over 40 Penstocks for Sydney Water's Cronulla Wastewater Treatment Plant (WWTP).

The Cronulla WWTP is one of the largest tertiary treatment plants in Australia that discharges directly to the ocean.

AWMA's stainless steel ULF penstocks provide control of raw sewage entering the primary sedimentation tanks and the inlet channels leading to the individual sedimentation tanks.

An AWMA Portable Actuator was supplied to eliminate manual operation of the penstocks and subsequent cost of 40 individual actuation systems.

WETLAND WATER SAVINGS

The Coonancoocabill wetland comprises a main lagoon and two smaller wetlands located downstream of Narrandera on the Murrumbidgee River. Isolation of the larger part of the Coonancoocabill Lagoon will provide estimated water savings of 632ML p.a. for a cost of $1.2M.

Works include a sheet pile regulator with two dual leaf AWMA Combination Gates, fitted with IQ Rotork Actuators, to be remotely operated by State Water.

The regulator will improve potential native fish-breeding events and reduce erosion associated with frequent water level changes.

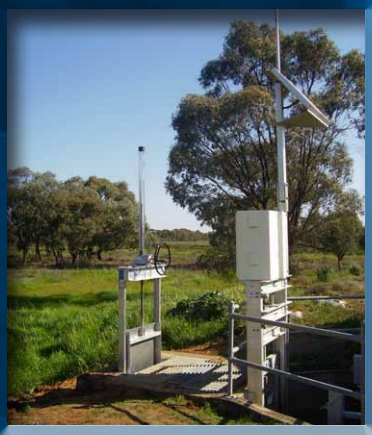
State Water is the proponent of this project with water savings to be delivered to Water for Rivers. AWMA have partnered State Water on the majority of their infrastructure projects over the past decade including the regulation of bulk water delivery systems and associated environmental flows.

CURRENT PROJECTS INCLUDE...








WASTEWATER DESALINATION FLOOD MITIGATION ENVIRONMENTAL IRRIGATION

awma
Water Control Solutions

Head Office
Phone +61 3 5456 3331 **Email** info@awma.au.com
118 Roviras Road, PO Box 433, Cohuna Victoria 3568
www.awma.au.com