

# CASE STUDY

**PROJECT** STORMWATER TREATMENT & REUSE  
**PRODUCT** Multimedia Filtration (MMF)  
**INDUSTRY** Infrastructure and Urban Development  
**LOCATION** Kambah, ACT



## BACKGROUND

Water is a limited and precious resource anywhere west and inland of the Great Dividing Range. Acknowledging this scarcity and importance, the ACT Government initiated a Healthy Waterways Program to capture and reuse stormwater runoff for irrigation water to offset potable water use. The program aims to capture and retain stormwater in a new artificial wetland providing a habitat for local and migrating bird species and serving as a community focal point.

MAK Water was approached by a wetland management consultant to consider compliance with Australian Recycled Water Guidelines and to assist with a pragmatic and fit for purpose design to polish the captured stormwater from the wetlands. The design required sufficient filtration and disinfection for low-risk irrigation of public parklands.

## SOLUTION

A Multimedia Filter (MMF) was used to treat up to 240 m<sup>3</sup>/day of clarified stormwater in a shipping container suitable for installation in an unrestricted open public space.

## MAK WATER KEY SOLUTIONS

- Custom plant design working with civil contractors and site requirement of self-priming pumps for below ground sumps and treated water tanks
- Low maintenance and robust filtration and disinfection appropriate for location and intended reuse purpose
- Custom instrumentation package including Premium Instrumentation package with ClearAccess™ Remote Monitoring and Control enabling remote support from MAK Water's technicians
- Easily transportable system installed in sea-containers for rapid plug and play onsite installation
- Full technical support and routine maintenance service.



*MAK Water containerised MMF plant onsite*

## RESULTS AND BENEFITS

- **Sustainability.** Capture and reuse of stormwater reduces use of potable water for irrigation preserving this precious resource and helping the Territory Government towards a sustainable water future.
- **Turnkey Solution.** Complete package of bespoke client design for plug and play deployment
- **Technical Support and Routine Maintenance.** 24/7 Expert technical support and monthly maintenance
- **Plant Reliability.** High-quality equipment and quality manufacturing provide reliable in field operation with minimal maintenance



*Internal view of the containerised MMF plant*