



## CSIRO: Investigation techniques to better manage WA's non-potable water resources

*Project No: 020 04G*

### Description:

CSIRO received a grant of \$750,000 towards estimated total project cost of \$2,322,000. This project involves the investigation of the structural and non-structural devices and controls for the management of shallow groundwater and stormwater in urban environments. It will be run on two levels.

1. A regional investigation of the quality and quantity of drainage and groundwater for non-potable uses.
2. Trialling the use of drainage and groundwater at a precinct scale to develop a "fit-for-purpose" philosophy on the localised and regional management of groundwater and stormwater run-off.

The project will focus on management of water in the Southern River region in the south-east corridor of Perth. For the precinct scale trial, the project links to Brighton non-drinking water supply project that will provide non-potable water for gardens and parks. The major technical aspects of the project are:

- assessing the quality and quantity of groundwater and stormwater available for 'fit-for-purpose' uses within the south-east corridor of metropolitan Perth
- determining how this water can be used in an environmentally responsible manner
- examining the reasons behind social acceptance or rejection of 'fit-for-purpose' use of stormwater and groundwater, particularly at the household scale
- studying the economics relating to the use of these waters
- assisting in the development of policy principles and specifications relating to 'fit-for-purpose' uses of non-potable waters within the community.

CSIRO is partnered in this project by the Water Corporation.

### **Publication:**

[CSIRO: The identification of key drivers of community acceptance of a water supply system – a non-potable fit-for-purpose case study, 2006](#) (PDF File, 2MB)

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