



Stormwater Harvesting and Reuse - A Checklist for Master Planning and Design

Guy Amos

Optimal Stormwater, Pty Ltd, Chatswood, NSW, Australia

Abstract: In recent decades a large number of stormwater harvesting and reuse schemes have been constructed in NSW. Experience shows that some projects have not had the benefit of adequate master planning and/or rigor in the design and assessment process. This has led to poor outcomes on the ground and increased risks for the asset owner, e.g. local government.

Much has been learnt through the design, operation, maintenance and auditing of the growing number of stormwater harvesting and reuse schemes. From this a checklist has been developed pulling upon the experience of asset owners, designers, builders, operators and maintenance personnel to assist those involved in master planning, design, assessment and approval of new stormwater harvesting and reuse schemes, making sure that all relevant and appropriate information and standards are applied.

This checklist will also assist during the installation/construction process, the commissioning of future works and ongoing operation and maintenance, making sure that all stakeholders know what is expected of them. The checklist is not intended to replace good engineering practice and Water Sensitive Urban Design (WSUD) input, but rather act as a guideline to assist in master planning and ensure that all applicable codes and standards have been considered in design and assessment - avoiding the dreaded 'white elephant'.

The presentation will discuss through examples some of the common issues encountered and potential pitfalls in the master planning and design of stormwater harvesting and reuse schemes and how the checklist can be employed to arrive at the optimal scheme.