



## Rainwater Harvesting Model

Water is our most precious natural resource and something that most of us take for granted. We are increasingly becoming aware of the importance of water to our survival and its limited supply, especially in such a dry country as Australia.



Rainwater tanks provide a source of clear, soft natural water, and provide a more self-sufficient, sustainable lifestyle. Rainwater tanks are an effective way to take the pressure off our limited water resources, and at the same time, help manage stormwater run-off. By storing rainwater run-off from the roof, rainwater tanks can provide a valuable water source for flushing toilets, washing cloths, watering gardens, washing cars and even as a clean, pure drinking water source.

Rainwater tanks are an integral component of ESD design, which are being openly embraced by city councils due to their multi-beneficial outcomes.

While the benefits of rainwater harvesting are obvious, choosing the right sized tank and the best application for your rainwater tank is not as straight forward.



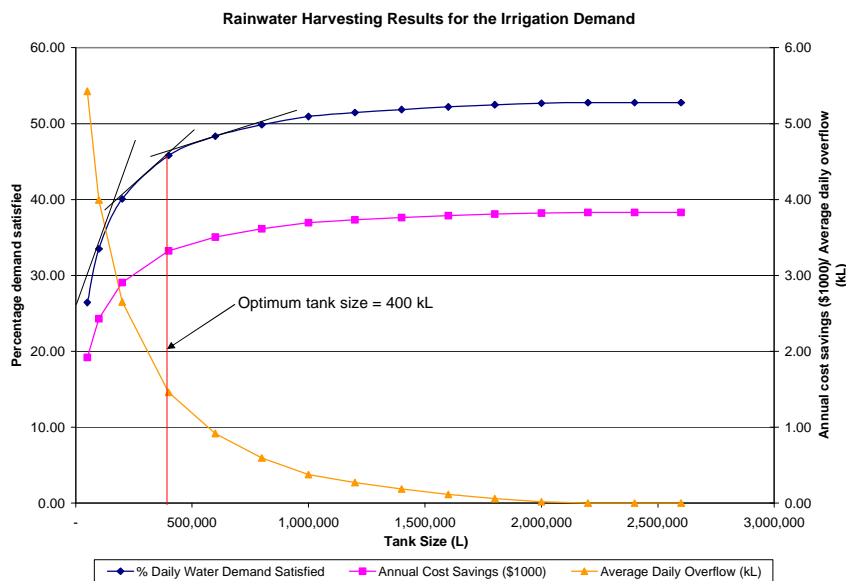
Sustainable Solutions International Pty Ltd has developed a Rainwater Harvesting Model to assess the viability of rainwater harvesting from various buildings and projects. It involves assessment of the collection, storage and reuse for a variety of applications in order to optimally size and cost such schemes. This is an invaluable tool for architects, developers, engineers, and home owners to ensure they get the maximum social, environmental and economic benefits from the installation of a rainwater tank.

The Rainwater Harvesting Model simulates a daily water balance over the entire period for which rainfall data is available (up to 100 years!). The Rainwater Harvesting Model shows quantifiable benefits of using rainwater tanks and approaches the sizing based on sophisticated modeling techniques, not just conventional rule of thumb.

Source: BCC website

## The Rainwater Harvesting Model will determine:

- The best applications for the use of rainwater;
- The optimum tank size required to maximise the social, environmental and economic benefits;
- The percentage of the total demand able to be satisfied by rainwater based on actual historic rainfall data, catchment area and usage data;
- The amount of stormwater reduction resulting from rainwater collection and storage;
- The cost savings from reduced mains water consumption.



### Example of graph produced by the Rainwater Harvesting Model

The rainwater harvesting model has been successfully used to size rainwater tanks for schools, high rise buildings, individual houses, shopping centers, sub-divisions and function centers.

The Rainwater Harvesting Model is an invaluable tool to ensure that you are getting the most out of the rainwater tank from a cost and environment investment point of view.

We welcome enquiries and are happy to provide a free quotation for this service.

#### For more information please contact:

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