

## **Exploring the suitability of rainwater tanks for domestic**

Nicholas Quigley

In Honiara, Solomon Islands, a number of factors have constrained access to fresh water including: rapid population growth and urbanisation, neglected water infrastructure, the ethnic tensions, water tariff increases of 170% in the past three years, sole reliance on groundwater and poor supporting electrical infrastructure. The effect of historical drought events on rainwater tanks has been examined. A water balance model has also been developed and run over various household scenarios. Within this context and with this approach, the case for using rainwater tanks as either a predominant source or for augmentation of existing domestic water supply has been explored.