

# ecoRain® turns stormwater tanks into free water supply

Residents of the Ellington residential development on the Gold Coast will keep their gardens green with rainwater stored in a complex of underground concrete tanks holding 160,000 litres.

Gold Coast based developer, the Sunland Group, is taking advantage of the Rocla ecoRain® rainwater utilisation system to reuse the stormwater it was already planning to detain on site.

Sunland's Kevin Morse said the stormwater had to be detained to reduce discharge flows: "As part of our stormwater management plan, we were required to hold some of the stormwater on site, with the best method of disposal of the water being irrigation of the landscaped areas of the site."

"We looked for an off-the-shelf solution that could store rainwater underground and pump it back through a landscape irrigation system, and the ecoRain system seemed to fit the bill," Kevin said.

The installation includes four groups of four ecoRain® tanks, each tank holding 10,000 litres. The tanks gather rainwater from the roofs of some 70 townhouses and duplexes plus three single dwellings.

Tanks in each group of four are connected by balancing pipes top and bottom to ensure they are filled and emptied at a uniform rate.

Rainwater entering each cluster of tanks passes through an industrial-volume filter that is self-cleansing and can filter water at a rate of 50 litres per second.

The Rocla ecoRain® system is a self-contained water supply comprising underground concrete tank storage, filter, electric pump and automated control system. If the water level in the storage tank drops below 10 per cent, mains water is used to top up the system. Back-flow controls and air gaps prevent contamination of the potable water supply.



Large-capacity stainless steel filters remove debris and wash it into the stormwater system.

**Project**  
Rainwater harvesting

**Location**  
Coomera, Qld

**Developer**  
Sunland Group

**Consultant**  
Birchell Partners

**Contractor**  
TANACROSS

**Rainwater Utilisation System**  
Rocla Water Quality

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