

### Castle Plaza Shopping Centre

#### Capturing rainwater to use in amenities

Castle Plaza is managed by the Colonial First State Property Management Group (CFSPM) and is based at South Road Edwardstown. They have taken positive steps to reduce their water consumption and help relieve the pressure on the states water resources. The centre joined the Business Water Saver Program in 2007 which involved the completion of a water efficiency audit of the centres water using areas and tenancies. CFSPM's 4 other centres in Adelaide are also participating in the program.

The audit process identified that approximately 12,000kL per annum in possible savings could be achieved at Castle Plaza. Upon receipt of their water efficiency report Castle Plaza immediately began implementing the water minimisation recommendations, such as installing various flow restriction devices, and dual flush toilets.

The centre then embarked on a major project to capture and plumb rainwater into the amenities block near the centre management office which is then used for toilet flushing and hand washing. The centre then engaged their plumber to design the harvesting system. Four 23,000 Litre rainwater tanks were purchased and installed giving a total collection capacity of 92,000 Litres. The system is comprised of a three stage filtration process, involving sand and UV filters complete with the required switch to revert to mains water use if rainwater supply does not meet demand. The connected roof area will allow for the collection of approximately 500,000 litres of water per year – equivalent to approximately two average Adelaide household's annual water use.

SA Water's Business Water Saver Program continues to work with the CFSPM group, and for this project provided two water flow meters to determine water savings. Centre management have also installed educational signage in the car park to advertise the initiative to their customers.



These toilet facilities, including hand basins, are connected to a rainwater harvesting system and therefore the water is **NOT SUITABLE FOR DRINKING**.

Castle Plaza Shopping Centre is committed to environmentally friendly practices by assisting in water conservation and preserving our natural resources.

Toilet signage within the amenities block



Aerial view of the storage tanks



Operations Manager Grant Rench in front of the filtration system