
Epping Plaza Regional Shopping Centre Rainwater Capture Project

Applicant Name: Bevendale Pty Ltd (Pacific Group)

Project Summary:

The Project will install a 240,000L steel water tank at the Epping Plaza Shopping Centre which will store captured stormwater. Stormwater will substitute potable supply for the flushing of toilets, garden and lawn irrigation and high pressure cleaning of external walls, pathways and pavements.

The Project's storage tank and associated plumbing will complement a separate project to be installed in conjunction with the planned expansion of the shopping centre by the Pacific Group.

It is estimated that 9-10ML per year of potable supply will be saved through substitution with stormwater. Other water conservation measures at the Shopping Centre are estimated to add a further 2.5-10ML per annum. Water conservation will result from the retrofitting of flow control valves fitted to tapware throughout the centre as well as the fitting of waterless urinals, and half flush toilets. The Rainwater Capture Project is due to be completed by December 2007.

Project Costing:

Total Project Cost: \$201,300

Total Grant Funding: \$100,649

Total Water Substituted or Saved: 20 ML per annum (Potable Substitution by Stormwater 10 ML per annum +10 ML per annum (from Water Conservation measures)

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Frankston City Council Sustainable Water Depot Project

Applicant Name: Frankston City Council

Project Summary:

The Project will install and connect three rainwater tanks on to a large workshop building at the Frankston City Council depot for vehicle washing, street sweeping and toilet flushing. The fleet wash down areas will be redeveloped to reuse water. Two rainwater tanks on a minor shed will capture water to ensure an available supply of stormwater in all areas of the site.

In 2002-03 the Frankston City Council Depot used over 7000KL of potable water for a variety of purposes including tanker filling for street sweeping and nursery irrigation. The fleet wash down facility used potable water taken from the fire system which was filtered before release as trade waste into the sewerage system.

The Project will install five water tanks around the outside of the main workshop at the depot to collect water from the roof and a detailed design for the tank collection system and wash down pit. Alternative water will reduce the council's potable water consumption.

A comprehensive education, promotion and communication plan is included in the Project. The Project will be promoted through local media and council publications including the Frankston City Council news section of a local paper, Tjuringa (Frankston City Council's Environmental News), Frontline (an internal council newsletter), Frankston City News (a council publication delivered to 46,000 homes and businesses), an ICLEI case study (released to participating councils and is available online) and a public launch.

The Project will demonstrate water conservation to other Councils and relevant businesses. The depot is part of Frankston City Council's Local Industry Efficiency Program (LIEP), an auditing program successfully trialled in 50 businesses who have made a commitment to reduce their impact on water, greenhouse and waste diversion.

The Project will be promoted to the Western Port Greenhouse Alliance; a group of 5 councils working together to reduce the impacts of council and community on the environment. The Project also provides an example to industry for reduced water use and water quality improvement for the Regional Trade Waste Unit run by South East Water Limited.

Project Costing:

Total Project Cost: \$98,800

Total Grant Funding: \$48,400

Total Water Substituted or Saved: 1.1 ML per annum (Potable Substituted by Stormwater: 0.9 ML and Reuse Water: 0.2 ML)

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Total Water Cycle Management At CERES

Applicant Name: CERES

Project Summary:

The Project will complete 5 key infrastructure components from CERES Water Plan. These include: i. Provision of a stormwater based irrigation system to a new market garden in Coburg, ii. Provision of advanced water conservation and potable water substitution techniques to an Education Centre, iii. Harvesting and reuse of stormwater from Phase 1 of a Site Centre development, iv. Combining micro-flush toilets with compost toilets, v. Redeveloping stormwater ponds and stables run off; connecting to existing Lee St stormwater irrigation system for market garden, vi. Linking existing elements of the Water Project in order to achieve best performance and management of the overall system. The project also includes a number of educational and capacity building programs.

Piped connections, solar pumps, storage augmentation and integrated metering to transfer stored water between existing dams and filter beds with no net increase in fossil fuel energy use will be installed. CERES currently has about 400 visiting schools, work in 150 schools across Victoria and assist 5 community projects. Education programs and signage for the 200,000 visitors and schools per year will also be achieved. The project will be implemented in partnership with Moreland City Council, schools, RMIT Civil & Chemical Engineering, small businesses such as EcoVerta, BlueScope Water, Going Solar, Invisible Structures and Permapave, and liaising with Yarra Valley Water.

The Project also includes the development of educational programs for CERES and Sustainable Schools that focus upon the reasons for and advantages of total water cycle management. A Total Water Cycle tool kit will be developed to provide a facilitative role in sustainable water development. It includes measures of purpose, costs, availability, contacts, and environmental significance and will be shown on the web. CERES will create interest in applying water conservation approaches in households, schools and community centres.

The Project is due to be completed in November 2008 and will directly substitute 2.4ML of water on-site with a further 20ML off-site savings influenced by the CERES program.

Project Costing:

Total Project Cost: \$534,000

Total Grant Funding: \$230,000

Total Water Substituted or Saved: 22.4 ML per year (by 2.4ML Stormwater & 20ML offsite)

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