

Lidcombe EPA Site

Lidcombe

Sustainable Water Solutions

Project Background

The proposed drainage infrastructure has been designed to capture roof runoff from the EPA building and site as a demonstration of the ecological sustainable development. The stormwater drainage system has been designed to cater for the water quality and quantity controls, the 1% AEP storm event and also to treat the stormwater pollution to meet ANZECC standards.

Project Scope

The objective was to apply Water Sensitive Urban Design (WSUD) principles (ie to construct an overall drainage system that will integrate the planning, landscaping and stormwater objectives for the site). Other purposes included;

- function as a drainage conveyance system for site stormwater
- function as stormwater detention system with the aim to reduce stormwater contribution to the downstream stormwater conveyance system during large storm events
- function as a water quality control system that will detain and filter pollutants from the stormwater
- wetlands with immediate/adjacent planting, will function as, cooling system during summer, habitat creation, aesthetics and create an environmental friendly environment

Outcomes

Commerce developed a Water Sensitive Urban Design (WSUD) solution satisfying Council and client's requirements.



EPA Building side view showing water feature and wetland



EPA

More information

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