PW-3: Improved Stormwater Management

Intent

To protect receiving water bodies from pollutant loading during and after storm events.

Credit Requirements

GENERAL

Quantity Control

- Demonstrate that the post-development peak runoff rate and quantity from the 10-year 24-hour design storm does not exceed the pre-development peak runoff rate and quantity through either structural or non-structural methods, or a combination of both.

Quality Control

- Demonstrate that a study of the site and its surrounding area has been undertaken by a *suitably qualified professional*, such as a Civil Engineer, which identifies areas of run-off, potential sources and levels of pollutants, and potential structural or non-structural pollutant removal solutions.
- Demonstrate that the proposed stormwater management system is capable of collecting and treating a minimum of 90% of stormwater and that the treatment process is capable of achieving the following minimum standards for quality control:
  - 80% removal of Total Suspended Solids (TSS);
  - Minimum 95% removal of litter (gross pollutants, >1mm);
  - Minimum 90% removal of hydrocarbons; and
  - Use of petrol interceptors or suitable permeable paving for car parks of more than 4 bays.

Operation & Maintenance Plan

- Demonstrate that the Operation and Maintenance Plan (OMP) incorporates appropriate maintenance procedures and schedules to ensure ongoing pollutant removal.

ADDITIONAL REQUIREMENT/CLARIFICATIONS

None

Credit Submission: Design Rating

- ☐ Narrative describing the stormwater management system developed for the site including:
  - Drawings showing locations of components of the stormwater management system including catchment areas, gullies, open and underground drains, manholes, retention areas/structures and treatment system; and
  - Civil engineering calculations describing and quantifying the stormwater management strategies, specifically addressing the pre-development and post-development peak runoff rate and quantity;
- ☐ Drawings identifying run-off and drainage systems, and the proposed quality control measures;
- ☐ Extracts from specifications and product data sheets describing the components specified, confirming that the system is capable of collecting 90% of stormwater and is able to treat to the required quality standards;
- ☐ OMP containing maintenance procedures and schedules; and
- ☐ CV of *suitably qualified professional*.

Credit Submission: Construction Rating

- ☐ As-built drawings showing locations of the applied components of the stormwater management system;
- ☐ Updated civil engineering calculations describing and quantifying the stormwater management strategies, specifically addressing the pre-development and post-