



**BLIGH TANNER**  
CONSULTING ENGINEERS

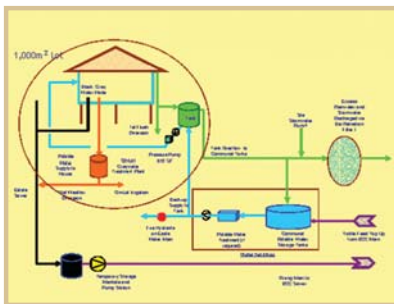
## KEY PROJECTS

**Silva Park, west of Brisbane, is a 22-lot prestige subdivision that has been integrated into the existing bush setting. Bligh Tanner developed the project as a model for sustainable urban development in a fringe area unsuitable to be fully serviced to normal residential standards. In addition, retaining the bush setting and its values was vital to the integrity of the development.**

### SILVA PARK, THE GAP



Bioretention filters, part of the stormwater management system, act as communal open space.



The IWM design for Silva Park (formerly The Farm) saved significant amounts of water and reused significant amounts of wastewater.

### WATER USE AND REUSE

Using Integrated Water Management (IWM), Bligh Tanner maximised water reuse by reducing water demand from the Brisbane City Council mains supply by 75% reduced the amount of wastewater produced by 33%. It was these factors that made the Silva Park development possible in such marginal land.

Other important aspects of water use included the introduction of water tanks that are backed up from communal tanks trickle fed from town water supply and rainwater collected at each house. These tanks are a communal and dedicated fire fighting water supply.

Greywater is treated and reused on-site to minimise the wastewater load on external services.



Rainwater tanks

### WATER-SENSITIVE URBAN DESIGN

Bligh Tanner's use of best practice water-sensitive urban design (WSUD) principles created a system that used swales and bioretention filters to protect the local creek.

The Silva Park development demonstrates how sustainable urban development can be achieved when the developer and the local authority collaborate.

The development team for Silva Park aimed to realise triple bottom line outcomes, demonstrate the feasibility of an integrated water cycle in a residential development and the practicality of IWM in a marginal situation.