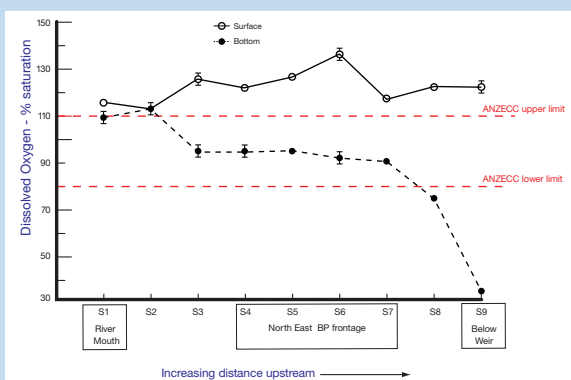


Environmental initiatives: Innovative Stormwater Management Strategies



All locations from the Caboolture River mouth to below the weir

This graph shows that, **before any development has occurred**, dissolved oxygen (DO₂) in surface waters remains above the ANZECC guidelines (red dotted lines) for the protection of ecosystems. However, the amount of dissolved oxygen in water near the river bottom is significantly lower than that in surface water, beginning at about Site 3 and continuing downstream to below the weir. Sites 8 and 9 have lower concentrations of dissolved oxygen than recommended for the protection of aquatic ecosystems.

It is important to recognise that water quality in the Caboolture River is affected by a range of natural and anthropogenic (man-made) processes. Natural processes may include impacts associated with flooding, storm surges and inputs of nutrients from oceanic upwelling. Anthropogenic processes include alteration of run-off patterns that can lead to diffuse pollution sources and point sources associated with discharges from sewage treatment plants, industry, aquaculture facilities, etc. In addition the effects of natural processes may be mitigated or enhanced by anthropogenic factors, particularly land clearing.

Northeast Business Park's Stormwater Management Plan provides a conceptual framework for:

- ✓ Improvements to water quality both onsite and in the Caboolture River by adopting best practice water quality measures on the site;
- ✓ Addressing existing water quality issues originating beyond the site;
- ✓ Creation of Swale systems including in-ground drainage and overland flow paths;
- ✓ Development of traps which retain urban storm water runoff before they reach the waterways; and
- ✓ Innovative devices to monitor and control stormwater flow and water quality.
- ✓ Rehabilitation of the natural flows to the waterways and wetlands; and
- ✓ Dramatically improve the existing quality of the Caboolture River by utilising best practice water recycling and urban storm water management.

In addition, Northeast Business Park will include water saving strategies to reduce its dependence on mains water supply, such as:

- ✓ Use of recycled water; and
- ✓ Roof water harvesting.

