



# Catchment Management & Waterway Health



## Our Services

There is a range of environmental values associated with water catchments, including ecological, cultural, fisheries and human amenity. Hydrobiology assists local and state government and regional natural resource management organisations with implementing sustainable catchment management policies and practices, through the delivery of sound science in the areas of aquatic ecology, water quality, fluvial geomorphology, habitat assessment and river restoration.

## Skills and Techniques

Hydrobiology has undertaken catchment management and waterway health projects, ranging from specific issue-based assessments to broad catchment-scale studies. We have experience working in urban streams and both rural coastal and inland catchments.

Hydrobiology offers experience in catchment management planning and waterway health assessments based on the assessment of water quality, macroinvertebrates, fish and in-stream/riparian habitat condition. We have undertaken studies using a range of rapid assessment techniques including: EHMP, AusRivAS, State of the Rivers, ISC and a combination of the Pfankuch and Rosgen stream type and channel stability assessment methods. Hydrobiology can also undertake detailed research-based tasks tailored for the specific study objectives.

### Our key skills and applications include:

- Aquatic ecological surveys and research to underpin waterway health, in-stream habitat and integrated catchment planning studies
- Assessment of in-stream and riparian habitat condition and processes
- Characterisation and quantification of sediment loads entering waterways
- Assessment of river restoration and rehabilitation options and recovery potential
- Assessment and mapping of in-stream habitat distribution as part of resource inventories and strategies
- Assessment of the impacts of fish barriers
- Environmental flows and water resource planning studies
- The design and implementation of water quality and sediment monitoring programmes

## Applications

- Water Quality and Waterway Health
- In-stream Habitat and Processes
- Habitat Mapping and Condition Assessment
- Catchment Management and Prioritisation
- Environmental Flows
- River Restoration and Rehabilitation



### BRISBANE

PO BOX 2050 Milton Qld 4064

Phone 61 7 3368 2133

### PERTH

PO BOX 6917 East Perth WA 6892

Phone 61 8 9221 7555

info@hydrobiology.biz

www.hydrobiology.biz