

# Aquatic Ecology



Australian  
Water  
Quality  
Centre



## Services provided:

- Macroinvertebrate Identification
- Freshwater & Estuarine Fish Survey
- Biofilm Identification
- Environmental Water Requirements
- Analysis & Assessment of Ecological Data
- Consulting Services
- Ecological Sampling

The AWQC holds national quality accreditation (from NATA) for macroinvertebrate identifications and for the sampling/collection of ecological data from streams, rivers and wetlands. The Biomonitoring Team is highly qualified and has vast experience. They apply knowledge gained from biological surveys of macroinvertebrates to assess river and stream health. The AWQC can provide a service framework that is tailored to suit your specific requirements, while simultaneously providing a competitive and cost-effective service. From quotation through to final delivery, our focus is on quality, timeliness and Customer Satisfaction.

## Environmental sample identifications

- Macroinvertebrates (including quality checks of specimens or samples for other investigators or laboratories)
- Biofilm components (diatoms, green algae and cyanobacteria) attached to solid surfaces in freshwater environments
- Freshwater and estuarine fish
- Physical and chemical characteristics of waters



## Analysis and assessment of data

- Numerical analysis of macroinvertebrate and other ecological data (AUSRIVAS models; statistical analyses such as classification, ordination, ANOVA etc.)
- Interpretation of analyses (tabular and graphical representations of data)
- Preparation of written reports, data quality assessments and other documents

## Environmental water requirements of freshwater species

- Provision of technical investigations and advice. Based on our extensive experience and knowledge of faunal distributions and the habitat requirements of stream fauna

## Consulting services

- Study designs
- Reviews; evaluations of programs against objectives
- Advice; assessments
- Literature reviews
- Education and training

## Ecological sampling

- Surveys of fish from stream, wetland, river and estuary environments (using a range of techniques)
- Collection of macroinvertebrates with AUSRIVAS surveys, or by various other methods
- Water quality sampling (using in situ multimeters, inclusive of grab sampling of waters and sediments)
- Biofilm collection