



WATER QUALITY SERVICES

CAPABILITY STATEMENT



Water Quality Services

ABOUT CATCHMENT SOLUTIONS

Catchment Solutions is a Queensland based service provider, offering a range of specialised environmental services that combine technical expertise, innovation and collaboration to meet our client's needs. Working closely with business and government across diverse industries, we provide tailored solutions for strategic environmental and commercial outcomes.

Our core capabilities are:

- **Water Quality Services**
- **Fisheries and Aquatic Ecosystems Specialists**
- **Agriculture Innovation and Support**
- **Ecosystem Rehabilitation and Repair**
- **Environmental Planning and Approvals**

WATER QUALITY

Catchment Solutions offers a range of services covering on-ground water quality improvement activities, water quality monitoring and interpretation, research design and assessments. In addition, we also offer design and coordination of water quality management programs.

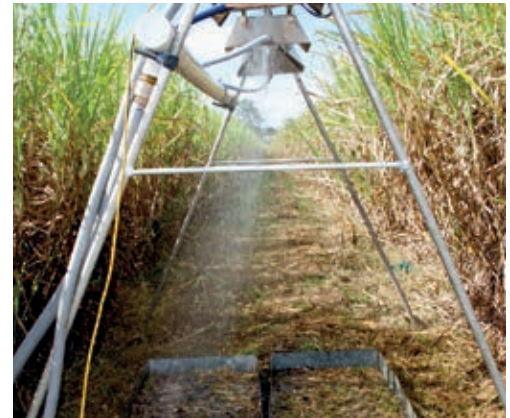
The team has specialist skills in regional-scale water quality impact monitoring and assessments, coordinating data provision, and integration of major programs. They are recognised leaders in the development of new knowledge and data to inform management actions and improve monitoring and program practice and design.

Catchment Solutions has been involved in the design and implementation of water quality improvement plans for more than a decade, receiving widespread recognition for ecosystem health improvement work. The Mackay Whitsunday Water Quality Improvement Plan 2008 was a finalist in the Eureka Awards and the lessons from these water quality planning experiences now extend to other regions.

The Catchment Solutions water quality team has a deep and comprehensive understanding of the relationships between water quality and ecosystem health. The team understands the importance of engaging the community and multiple interest groups, including government and industry, to work out solutions that are both practical and sustainable. Catchment Solutions has established strong relationships at every level and takes an approach that considers all stakeholders, engaging them where relevant in the water improvement process.

Our work spans plot, paddock, sub-catchment and catchment scale programs, and our team are recognised leaders in the production of systems and procedures to guide management actions based on water quality monitoring and assessment programs.

Catchment Solutions designs and delivers complex multi-facet projects across diverse platforms, including sustainable agriculture, healthy waterways, catchment management within all sections of industry.



Rainfall simulator in cane paddock



Water quality sample preparation



Water sampling in Sandy Creek, Mackay



Rainfall simulator in Sandy Creek catchment



PRODUCTS & SERVICES

STRATEGIC AND PLANNING

- Development of Water Management Plans (surface and groundwater)
- Receiving environment monitoring design plans

ON GROUND MONITORING

With a focus on water quality, soil science and ecosystem health:

- Experimental design
- Installation and maintenance of monitoring equipment
- Rainfall simulation
- Data collection
- Data analysis and interpretation
- Scientific report writing
- Local knowledge of Central and North Queensland

COORDINATION AND MANAGEMENT

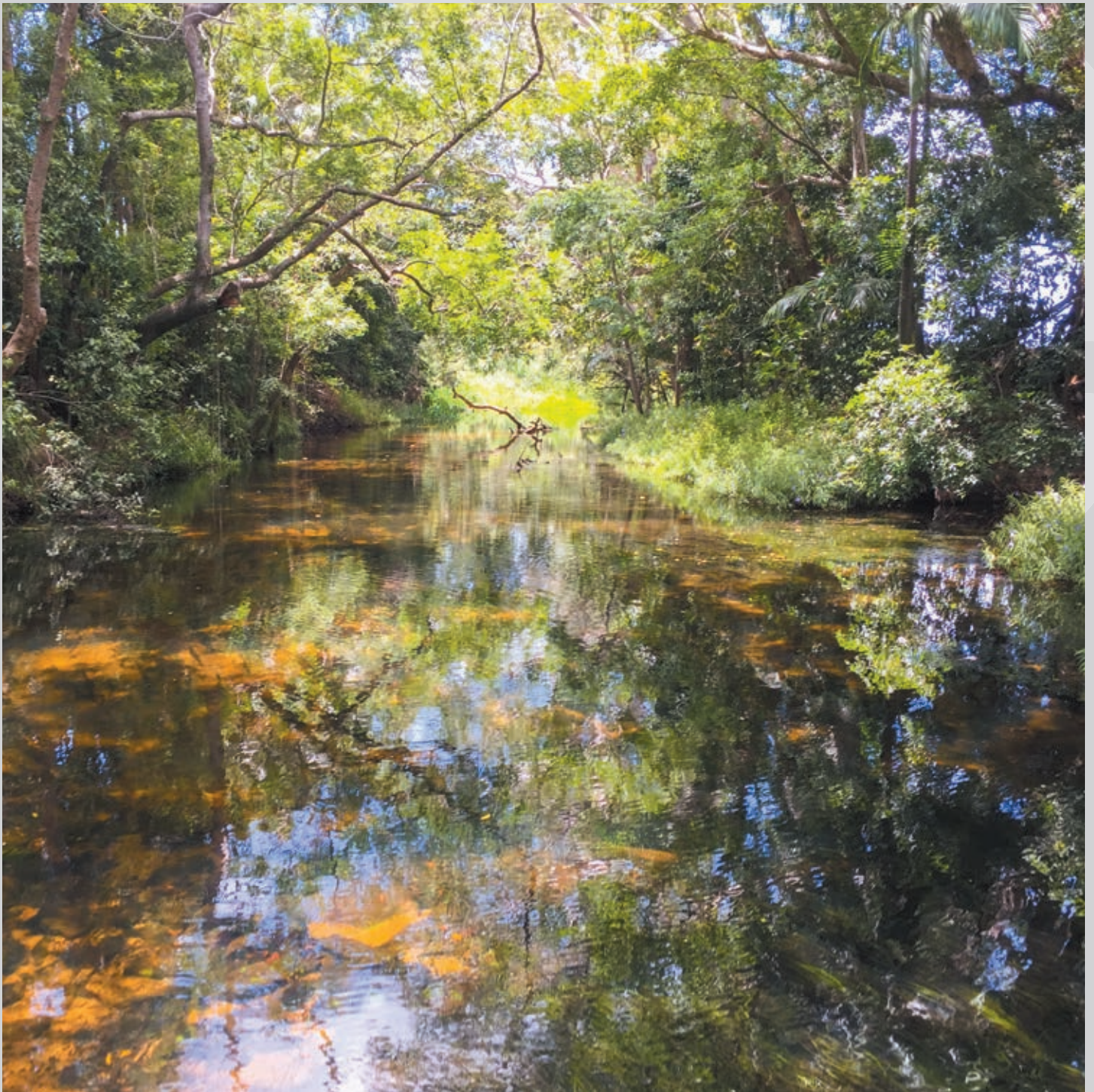
- Integration of complex data sets in practice
- Project management and reporting
- Training and workshop facilitation
- Science communication for general audiences - knowledge transfer
- Stakeholder consultation

RAINFALL SIMULATION

Catchment Solutions offers a unique service as one of the region's only providers of skilled rainfall simulation data collection. Rainfall simulators allow for the simulation of created rain events of known properties (e.g. intensity and duration), providing an opportunity for increased control over the many variables that govern natural rainfall. By delivering rainfall when and where it is required, and under the specific conditions of interest, it provides accurate and cost-effective information in a fraction of the time required for studies that rely on natural rainfall.



Reading the pH in the Pioneer Valley waterways



Upper Sandy Creek, Mackay



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