



PROFILE

JACK MCCANN

ENVIRONMENTAL CONSULTANT



I am an aquatic ecologist who from a young age has always had a fascination with aquatic ecosystems. My passion for the conservation and sustainability of aquatic ecosystems directly led to me pursuing environmental science as a career. I have spent the past five years studying aquatic sciences with Griffith University and the Australian Rivers Institute, getting hands-on experience through conducting my own research projects, as well as volunteering in many other research studies across south-east Queensland.

I have a particular passion for the rehabilitation and restoration of river systems and the appropriate management of sustainable native fish populations. This interest manifested in the collaborative research conducted during my Honours studies investigating the role of river flow and suitable fish habitat availability on various life-cycle stages of native diadromous fish, as well as evaluating the varying impacts of river regulation native fish populations in the greater Brisbane region.

Building from this research, I have more recently been involved in the construction of the Slacks Creek rock-ramp fishway in Brisbane, providing operational and technical support throughout the construction process. I have also been involved in the post-construction fishway efficacy monitoring of the Slacks Creek and South Pine River fishways. I also possess the necessary experience and qualifications to assist in both boat-based and backpack electrofishing surveys.

I have also gained substantial experience in appropriate monitoring techniques for estuarine ecological communities, being involved in research projects surveying benthic macroinvertebrate assemblages, coral and rocky reef ecology as well as seagrass habitat utilisation studies. I have experience combining various conventional fish community sampling techniques including seine netting and fyke netting with modern sampling techniques such as remote underwater video analysis, to best represent the entire aquatic community.

My skills and experience allow me to successfully deliver on collaborative projects involving environmental sampling, fish passage evaluation and waterway rehabilitation in order to achieve the desired outcomes of all stakeholders involved in research.



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KEY SKILL AREAS

- Aquatic assemblage and habitat utilisation monitoring
- Environmental surveying and assessment
- Water quality assessment
- Fishway monitoring
- Experimental design, analysis and reporting
- Native and pest fish identification
- Environmental flows and Natural flow regimes
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EDUCATION AND TRAINING

Bachelor of Science with Honours

Griffith University Nathan Campus, 2015

Bachelor of Marine Science

Griffith University Gold Coast Campus, 2013



RELEVANT PROJECTS

PROJECT	DESCRIPTION	ROLE	CLIENT	YEAR
Central Queensland Marine Fish Habitat Loss - Mapping and Prioritisation DAF1498CQA-6 & 7	Identification and prioritisation of tidal exclusion barriers in the Bundaberg, Gladstone, Livingstone and Rockhampton regions for rapid rehabilitation decision making	Operations and technical support	Queensland Department of Agriculture and Fisheries	2017 - Ongoing
Central Queensland Marine Urban Fish Community Monitoring DAF1498CQB-4	Identification, evaluation and management of Central Queensland marine urban fish habitats with respect to commercial fisheries output	Operational planning, technical support and reporting	Queensland Department of Agriculture and Fisheries	June- July 2017
Slacks Creek and South Pine River Fishway Monitoring	Conduct post- construction monitoring surveys into the efficacy and aquatic utilisation of two recently constructed rock ramp fishways in South East Queensland	Operations, technical support and reporting	Logan City Council and Moreton Bay Regional Council	July 2017
Imidacloprid Rainfall Simulation Trials	Assisted in conducting rainfall simulation trials over cane fields recently sprayed with pesticide Imidacloprid, evaluating concentrations of pesticides in sugar cane run- off	Operations and technical support	Reef Catchments Limited, Mackay	September 2017
Clyde Creek Bank Stabilisation Pre- Construction Monitoring DAF1498CQA-4	Pre- construction surveys of existing marine vegetation and aquatic fauna assemblages throughout reach of actively eroding streambank in Central Queensland	Operations and technical support	Queensland Department of Agriculture and Fisheries	September 2017
Janes Creek Diversion Ecological Assessment	Conducted pre- development backpack electrofishing assessments of aquatic communities to evaluate species richness and abundance of assemblage within section of Janes Creek to be impacted	Operations, technical support and reporting	Department of Transport and Main Roads	July 2017
Slacks Creek Partial- width Rock Ramp Fishway Construction	Provide technical assistance and field support throughout the construction phase of the Slacks Creek fishway project	Operations and Technical Support	Logan City Council	June- July 2017
Early life history investigations of Australian bass in the Logan-Albert estuary	Design, conduct and report on monitoring of estuarine nursery habitats for Australian bass larvae, as well as investigate timings of juvenile bass upstream migrations in relation to river connectivity flow	Lead Operational planning, technical support and reporting	Conducted in collaboration with SEQ Water, Queensland Government DNRM, the Australian Rivers Institute and Griffith University	2014-2015

