



## PROFILE

# MATT MOORE

## FISHERIES BIOLOGIST



## SHORT INTRODUCTION

Matt Moore is a fisheries biologist with a focus on the restoration of aquatic ecosystems, specialising in fishway design, construction and in-stream habitat rehabilitation. He also leads the design and construction of wetlands to improve water quality and aquatic ecosystem habitat and has undertaken several major fish barrier prioritisation projects in the Mekong Basin and throughout South-East, Central and Northern Queensland.

Matt has worked for more than a decade across Australia and internationally, managing the construction of fishways from start to finish, including initial field and site survey, attainment of approvals and fishway design. He also provides expert support post-construction in fishway monitoring, research and report writing.

With qualifications in water quality analysis, electro-fishing and aquatic biota identification, Matt is ideally placed to deliver on aquatic ecosystem monitoring activities and outcomes. Matt works from a sub-catchment to regional level in diverse conditions including freshwater, estuarine and near shore marine environments.

His strong connections with industry, government and natural resource stakeholders allow Matt to lead the development of effective freshwater fish habitat, fish barrier and fishway policy and management strategies, codes and guidelines.

Matt has been involved in the development and construction of several major in-stream bed control structures, including double drop cross vanes and is proficient at undertaking GIS stream network analysis having a key role in the development of Fisheries QLD's Waterway Barrier Works stream layer.

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## KEY SKILL AREAS

- Fishway Construction, Design, Organisation & Approvals
- Boat and Backpack Electro-fishing monitoring & Water Quality Analysis
- Wetland Design and Construction
- Revegetation & Restoration Projects
- Fish Barrier Prioritisation
- GIS – Stream Network Analysis and Stream Ordering
- In-stream Habitat Rehabilitation
- Project Management and Approvals



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Catchment Solutions

## EDUCATION AND TRAINING

### **B.Sc Fisheries and Aquaculture**

Southern Cross University, NSW, Australia 2000 - 2002

### **Certificate in Electrofishing Principles and Techniques**

Narrandera, 2014

### **Certificate III in Horticulture – Prepare and apply chemicals,**

Completed 2014

### **Coxswain Certificate (11) Maritime Operations (Theory)**

### **ESS Elements of Shipboard Safety**

### **Recreational Ship Masters License: class RMDL**

### **Construction White Card**

## PAST EXPERIENCE

### **Fisheries Queensland**

Fisheries Biologist, 2007-2014

### **Isolagen, Microbiology, London**

Quality Control Analyst 2005-2006



| PROJECT   | DESCRIPTION  | ROLE   | CLIENT | YEAR         |
|---|--|--|--------|--------------|
| South-east QLD fishway construction projects  | Prioritise, design and supervise construction of two large nature-like rock-ramp fishways on Hilliards Creek in Ormiston and on the Bremer River in Ipswich. Significantly, the Bremer River rock-ramp fishway on Berry's Weir is the longest rock-ramp fishway in Australia, encompassing 34 ridges and a weir height of 2.4 m.                           | Project Manager/ Site supervisor                 | CS     | 2014-Current |
| South-east QLD Fish Barrier Prioritisation project  | Using satellite imagery and GIS river network analysis identify and prioritise over 10,000 potential barriers to fish passage within SEQ. Priority rank the top 170 barriers to fish passage, and construct 5 fishways on high priority barriers.  | Project Manager                                  | CS     | 2014-Current |
| Lagoons Creek wetland rehabilitation/fishway construction project   | Provided technical wetland rehabilitation design advice. Design and supervise the construction of four nature-like rock-ramp fishways, two bed control/rock riffle habitat features, streambank stabilisation and revegetation.  | Project Manager/ Site supervisor/technical input | CS     | 2016         |
| Mackay Whitsunday Healthy Rivers to Reef Partnership - Freshwater and Estuarine Fish Barrier Metric Development         | Developed three aquatic ecosystem health metrics to determine fish barrier condition ratings in Mackay Whitsundays freshwater and estuarine reporting areas. Metrics were used to determine the health of 8 target estuarine areas and 5 freshwater basins for inclusion into the Mackay Whitsunday Healthy Rivers to Reef Partnership report card (2016). | Fisheries Biologist                              | CS     | 2016         |
| Fish Health and Fish Barrier Metric development for the updated Mackay Whitsunday Water Quality Improvement Plan (2015) | Developed aquatic ecological health metrics for fish and fish barriers for inclusion into the updated 2015 Mackay Whitsunday Water Quality Improvement Plan (WQIP). Both fish and fish barrier metrics were developed to assist in determining current aquatic eco-system health scores for each of the Mackay Whitsundays 33 sub-catchments.              | Fisheries Biologist                              | CS     | 2015         |
| Tedlands wetland rehabilitation and fishway construction  | Undertake a wide range of wetland rehabilitation activities, including the construction of a nature-like rock ramp fishway, hymenachne control (mechanical removal and helicopter spraying), large woody debris installation, fish nursery habitat creation, endemic vegetation plantings  | Project Manager/ Site supervisor                 | CS     | 2015-2016    |
| Lake Callemondah fishway construction project   | Design and Supervise the construction of a large rock-ramp fishway on Lake Callemondah in Gladstone.   | Project Manager/ Site supervisor/technical input | CS     | 2015         |
| Mackay-Whitsunday Fish Barrier Prioritisation project   | Using satellite imagery and GIS river network analysis identify and prioritise over 3,000 potential barriers to fish passage within the Mackay-Whitsunday region. Priority rank the top 40 barriers to fish passage, for use in on-ground fish passage remediation.  | Project Manager                                  | CS     | 2014-2015    |
| Bakers Creek Treatment Train Wetland Construction   | Design and construct a 4 chamber Treatment Train wetland system to improve water quality draining intensive sugar cane land. A holistic focus was undertaken to also improve habitat and aquatic connectivity through revegetation and the construction of a rock ramp fishway   | Project Manager/ Site supervisor                 | CS     | 2014-2015    |

