

PROFILE

MATT MOORE

FISHERIES ECOLOGIST



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

ABOUT

Matt Moore is a senior fisheries ecologist with a specialist focus on fish passage design and aquatic habitat rehabilitation and monitoring. Matt has worked for more than a decade across Australia and internationally, managing the construction of fishways from start to finish. This includes fish barrier identification, fish passage design, approvals, construction supervision and monitoring. Matt's experience designing and constructing fishways has led him to being 'Suitably qualified and experienced in fish passage biology and fish passage design and construction', a prerequisite qualification required by Fisheries QLD when undertaking fish passage works associated with state development approvals.

Matt is also experienced in undertaking large-scale habitat rehabilitation projects, using a holistic approach to restore ecosystem function. For example; rehabilitating eroding streambanks and degraded fish habitat through the construction of complex log jams in both estuarine and freshwater environments, and the design and construction of 'treatment train wetlands' to improve water quality and ecosystem services.



Matt's work leaves a legacy, for entire communities across Australia and internationally. Working with Fisheries Queensland and now Catchment Solutions, Matt's expertise extends to fish passage design and construction, addressing threats posed by invasive aquatic animals, endemic revegetation projects and in-stream habitat restoration.

Matt's skills in GIS analysis have led him to undertaking several regional scale fish barrier prioritisation projects throughout QLD and overseas, priority ranking thousands of barriers to fish passage to identify sites where remediation efforts can deliver the greatest ecological outcomes. Matt's passion for improving aquatic habitats has led to him developing aquatic ecosystem fish health metrics and assisting in the development of Fisheries QLD's 'Waterway Barrier Works' stream layer used by industry, state and local governments to determine required fish passage provisions associated with development works.

With qualifications in electrofishing, aquatic biota identification and water quality analysis, Matt is ideally placed to deliver aquatic ecosystem monitoring activities and outcomes in freshwater, estuarine and 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 fish passage policy management strategies, codes and guidelines.



RELEVANT PROJECTS

PROJECT	DESCRIPTION	ROLE	CLIENT	YEAR
DES Offset Fursden Ck Fishway Design & Construct	Design, Approvals & Construct the 1st QLD fish passage offset project, incl. Monitoring	Site Supervisor/ Suitably Qualified fish passage biologist	Dep. Environment & Science	2021
Gold Coast Fish Barrier Prioritisation	Using satellite imagery & GIS river network analysis identify & priority rank barriers to fish passage	Fisheries Ecologist, GIS	City of Gold Coast	On-going
Murray & Lower Herbert rivers Fish Barrier Prioritisation	Using satellite imagery & GIS river network analysis identify & priority rank barriers to fish passage	Fisheries Ecologist, GIS	Terrain NRM	2021
Wetland refuge pool construction	Design & construct deep pool wetland refugia & install large woody debris	Design & Construction Site Supervisor	Reef Catchments NRM	2021
Saltwater Creek Fishway Construction	Construct 6 x rock ramp fishways, Saltwater Ck, Burdekin	Construction Supervision/ Suitably Qualified Fish Passage Biologist	Lower Burdekin Water	2020
Gregory R Fishway Design & Construct	Design & construct suitable fish passage works at a culvert barrier	Site Supervisor / Suitably Qualified Fish Biologist	Reef Catchments NRM	2020
Bakers Ck Treatment Train Rock Ramp Fishway	Design & construct the highest headloss (3.8 m) Rock Ramp in Australia; 38 x pools & ridges	Site Supervisor / Suitably Qualified Fish Biologist	Reef Catchments NRM	2019
Scrubby Creek Recovery Plan	Identify & prioritise barriers to fish passage & provide remediation options. Undertake fish community monitoring (electrofishing)	Fisheries Ecologist	E2Designlab	2019
Tedlands Wetland Fish Passage Project	Design & Construct rock ramp fish ladder, incl. monitoring	Site Supervisor/ Suitably qualified Fish Biologist	Mackay Regional Council & Reef Catchments NRM	2019
Gregory River & Tedlands Fish Community Monitoring	Undertake boat electrofishing to determine fish community condition	Fisheries Ecologist	Reef Catchments NRM	2019
Janes Creek Water Quality Treatment Train Wetland	Design & supervise construction of a treatment train wetland to improve water quality flowing to the GBR from intensive sugar cane landuse	Wetland Designer & Site Supervisor	Reef Catchments NRM	2019
Sunshine Coast Council (SCC) Fish Barrier Prioritisation	Using GIS, identify & prioritise over 3500 potential barriers to fish passage within SCC catchments & recommend fish passage remediation options to increase fish populations	GIS analysis, site inspections, priority ranking, & reporting	Sunshine Coast Council	2018
Clyde Creek Streambank Stabilisation & Fish Habitat Improvement	Supervise & construct 5 large log jams to provide fish habitat & remediate actively eroding estuarine streambank, Central QLD	Log Jam Construction & Monitoring	Fisheries Queensland	2018
Urban Marine Fish Habitat Monitoring	Undertake estuarine fish community surveys across 13 sites in Central QLD with varying degrees of urbanisation, utilising seine nets, cast nets, box traps & fyke nets	Monitoring Design & Field Work	Fisheries Queensland	2017-2018
South-east QLD Fish Barrier Prioritisation	Using satellite imagery & GIS river network analysis identify & prioritise 11,797 potential barriers to fish passage within SEQ. Priority rank the top 170 barriers to fish passage, & construct 5 fishways on high priority barriers	GIS analysis, site inspections, priority ranking, construction & reporting.	Australian Government & 5 SEQ Councils	2014-2018
Warrill Creek & Bremer River Fish Barrier Assessment & Fish Passage Remediation Options	Undertake fish community trap monitoring on high priority fish barrier sites to determine impact. Undertake boat electrofishing	Monitoring Design, Field Work & Reporting	Ipswich City Council	2017-2018
South Pine River Fish Passage Restoration - Design & Construct	Design, construct & monitor a nature-like rock ramp fishway on Leitchs Crossing on the South Pine River in South-east QLD	Fishway Design, Construction & Monitoring	Moreton Bay Regional Council & Aust. Gov.	2016-2018
Paradise Road, Slacks Creek Fish Passage Restoration - Design & Construct	Design, construct & monitor two innovative fishways; a 17 ridge rock ramp & 10 ridge horizontal culvert baffle fishway, Paradise Rd, Logan	Fishway Design, Construction & Monitoring	Logan City Council	2017
Bremer River Fish Passage Restoration - Design & Construct	Design, construct & monitor Australia's largest nature-like rock ramp fishway (33 ridges) on Berrys Weir, Bremer River, South-east QLD	Fishway Design, Construction & Monitoring	Ipswich City Council & Aust. Gov.	2016-2018

