

RAWDON ISLAND BRIDGE RESTORATION

CLIENT:	Port Macquarie Hastings Council
LOCATION:	Port Macquarie
VALUE:	\$11 million
DISCIPLINE:	Bridge
PERIOD:	2021-2024



Constructed in 1961, the bridge over the Hastings River on Rawdon Island is a 164m long, eight-span concrete structure. A dive inspection in 2021 uncovered severe structural damage to the bridge piles. As the damage was significant, to manage public safety, the bridge and the waterway beneath it were closed to traffic in July 2021.

MLEI Bridge undertook investigations and design to inform the required repair works, with underwater repairs being completed in February 2022, allowing load limits and traffic restrictions to be removed.

Above water repairs to the concrete piers, bridge girders and the deck was completed in late 2022. This included the installation of a cathodic protection system to increase the useful life of the structure, which was commission in August 2023.



MLEI ROLE

- Onsite underwater inspections and material testing
- Trigger, action and response planning (TARP)
- Structural assessment and FE modelling
- Load testing
- Design and design management
- Procurement
- Client-side project management
- Site supervision & quality assurance
- Commissioning and handover

"Our analysis and testing demonstrated early on that the bridge could sustain one lane of light traffic, which led to the partial re-opening of the bridge 2 months later to provide urgent access to the outside world."

CLIENT REFEREE

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