

Industrial Placement Proposal – Neil Turner Weir, Maranoa River.

Project proposal

The purpose of this project is to gather information and data relating to the condition of the Maranoa River around the Neil Turner Weir through a desktop review and site assessment. There is a real concern from many stakeholders in the area that the weir is having a detrimental effect on the upstream and downstream health of the river. These concerns relate to the sedimentation and infilling of the river upstream of the weir, the increase in pest and weed species, the decline in water quality and the increased risk of flooding. Whether the weir is actually achieving what it was built for is also being questioned. There is little to no collation of information and data relating to changes in river condition before and after the construction of the weir. Documenting the current available information will assist in quantifying some of these concerns and will allow knowledge gaps to be recognized. Through this effective management options based on sound information can be explored.

Objectives

1. Document the past and current information on the condition of the Maranoa River in the vicinity of the Neil Turner Weir through a desktop review, field assessment and stakeholder discussions in relation to:
 - Sediment loading and deposition
 - Vegetation and biodiversity
 - Hydrology and geomorphology
2. Determine the impacts and risks associated with changes to riverine condition.
3. Document the strengths and weaknesses of the Neil Turner weir based on intended use.

Skills required

- Research skills
- Aerial photo interpretation,
- Ability to take initiative and work individually when required.
- Open Drivers License – (manual operation)

Expected skill development:

- Field work techniques and experience
- Communication with a variety of stakeholders
- Technical understanding of river management principles.
- Technical report writing

Location of placement:

Roma and Mitchell

Field supervisor: Kate Reilly Water Quality Technical Officer - Roma
Julia Telford Landcare Coordinator - Mitchell.

Additional information:

- Vehicle support will be provided to conduct assessments
- Computer and software available for use
- Low-cost share accommodation options available at Roma and Mitchell