



## Claire Stephenson

BSc (Geology), B Forestry, B. Forestry Research  
Hons, MBA

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<https://www.researchgate.net/profile/Claire-Stephenson-5>

<https://scholar.google.com.au/citations?user=BuHbCoAAA-AAJ&hl=en>

### Summary

Claire is a Principal Hydrogeologist and has over 14 years of experience working as a hydrogeologist and conducting technical studies into groundwater resources across Australia. Claire is currently pursuing a PhD on sustainable groundwater management at the Department of Accounting, Finance and Economics in the Griffith Business School in collaboration with the Australian River Institute.

The study area is focused on the Surat Basin within the Mid Great Artesian Basin zone, around the townships of Roma and Surat. The research topic will explore how economic instruments can be designed and employed in concert with other measures to enhance sustainable groundwater management within a region with competing market and non-market groundwater demands. The research will be conducted over the next four years and will compile available data from different government agencies and sources, and collect new data on market and non-market water values. The research will utilize the Q method to reveal social perspectives on market and non-market values of groundwater. The work aims to distil current groundwater management practices, economic drivers and policy to identify key success criteria for achieving sustainable management. These learnings will then be applied to develop an incentives program aimed to improve groundwater supply and quality within a regulated groundwater management area for current and future groundwater use and capture environmental and Indigenous groundwater values. The effectiveness of the approaches will be tested with hydro-economic modelling (HEM) under a range of socio-economic and environmental conditions.

### Research Expertise

- Scientific field data collection
- Data analysis
- Hydro-economic modelling
- Use of GIS and spatial analysis software
- Stakeholder engagement and communication