



## Steve Clark

Panel Member

Steve Clark, has 30 years' experience as a specialist in the water resources and coastal engineering fields specialising in flood risk and flood risk management. He has an Honours Degree in Engineering and a Masters of Engineering Science from the University of Queensland. Steve is one of the founding Directors of Water Technology Pty Ltd, and was appointed Managing Director in July 2019.

Steve has specialised in the provision of flood warning, waterway & floodplain and coastal risk management services, in particular infrastructure investigations and the potential impact of ongoing climate change processes. Frequently these services have utilised advanced hydrodynamic modelling systems to characterise risks and vulnerabilities throughout Queensland, NSW, VIC Australia and the broader Asian/Pacific region. Steve has provided expert review services on numerous occasions and has provided expert witness services in the Queensland Planning and Environment Court, Land Court and Supreme Court as well as the Victorian Civil and Administrative Appeals Tribunal. He is well versed with the complexities and conflicts that can occur during planning, application and appeal processes.

A significant component of Steve's career has involved community consultation around proposals (both public and private) and community education processes. Steve is an active member of the Floodplain Management Association (FMA), the Flood Community of Practice and Engineers Australia. In particular over the last 2 years Steve has been part of the FMA's Queensland Working Group looking at priorities for Floodplain Management in Queensland, and more broadly opportunities and challenges nationally.

### RELEVANT AWARDS

- Kenneth A. Thiess Prize, 1988

### PUBLICATIONS / PRESENTATIONS / PANELS / INQUIRIES / EXPERT WITNESS

- Clark, S. Tate, B. Daly, A. Cunningham, L. Bishop, W. "Flood Planning Levels: incorporating residual risk considerations", 13th Hydraulics in Water Engineering, Sydney, 2017.
- Clark, S. Bishop, W. Cunningham, L. Tate, B. Daly, A., "Utilising Hydraulic Grade Line rather than water surface levels for Flood Planning Levels", 13th Hydraulics in Water Engineering, Sydney, 2017.
- Expert Witness – Aurizon Property v. DTMR - Land Court 2016 (current). Engaged by DTMR to act as an expert with regard to flooding issues associated with the Bruce Highway Upgrade (Vantassel to Cluden) Project.
- Reichard, L. Lobrecht, A. Clark, S. Catalano, C. Tate, B. Cox, D. "Supporting Water Managers Making Effective Decisions by using HydroNET", 35th Hydrology and Water Resources Symposium, Perth, Australia 2014.
- Expert Witness – McConnell Dowell v. Gold Coast City Council PEA 2010 of 2012. Engaged by McConnell Dowell to provide specialist advice with regard to potential hydraulic impacts (and potential mitigation mechanisms) of the proposed Gold Coast Light Rail Project.
- Expert Witness – Mayne v. QR, AbiGroup Contractors, CW-DC Pty Ltd Supreme Court of Queensland No 6346 of 2010. Engaged by AbiGroup Contractors to act as an expert with regard to flooding and associated flood damages alleged as a result of construction of Bauhinia Regional Rail Line.
- Expert Witness – Strathmerton Deviation - VicRoads. Presentation to a panel hearing in Strathmerton regarding the hydraulic assessment and flooding implications of several potential highway alignments.
- Clark, SQ. Wen, L. & Bishop, WA, "RERP Gwydir Wetland Hydrodynamic Model Development Overview". 18th QLD Water Symposium, Brisbane, Australia, 2010.
- Clark, SQ "Hydraulic Roughness Characteristics of the Yangtze River", 16th Queensland Water Symposium, University of Queensland, July, 2007.
- Markar, MS, Clark, SQ, Min Yaowu and Zheng Jing, "Evaluation of Hydrologic and Hydraulic Models for Real-Time Flood Forecasting Use in the Yangtze River Catchment", Australian Journal of Water Resources, Vol 10, No 1, May 2006.
- Betts, HW, Joy, CS, Markar, MS, Clark, SQ, Sterling, E., Gooda, M., Jin Xingping, Wu Daoxi, 2005b. "The Achievements of the Yangtze River Flood Control and Management Project", The 2nd International Yellow River Forum Zhengzhou, 18-21 October 2005, China.

#### FIRM

Water Technology

#### SPECIALISATION

Water Engineering

Expert advice and Expert witness services

Climate change adaptation

Risk/vulnerability assessments

Hydraulic assessment and design

Numerical models (hydrologic, hydraulic and water quality) and their application

Environmental monitoring programs.

Flood Warning

Capacity Development

International Development

#### INDUSTRY TENURE

30 years

#### EDUCATION

Bachelor of Engineering (Honours), University of Queensland

Masters of Engineering Science, University of Queensland

#### PROFESSIONAL MEMBERSHIPS / PANELS

Fellow, Engineers Australia

Member, River Basin Management Society

Member, Australian Water and Wastewater Association

Member, Stormwater Industry Association

Member, Queensland Environmental Law Association

#### REGISTRATIONS

Registered Professional Engineer Queensland (RPEQ)

National Engineering Register (NER)