



**Kyle
Christensen**
Rivers & Stormwater
Engineer

Current Position
Independent Consultant

Years' Experience
20 Years

Education
MBA, ME(Nat Res),
BE(Nat Res)(Hons)

Affiliations
CPEng, IntPE(NZ),
CMEngNZ, MInstD

SUMMARY OF EXPERIENCE

Kyle is an Independent Consultant with over 20 years' experience in River and Stormwater Engineering. He has a Bachelor of Natural Resources Engineering as well as a Master of Engineering specialising in the interaction of river control works and morphological processes in river systems. Kyle is a Chartered Professional Engineer, a practice area assessor for Engineering NZ and is also the immediate past Chairman of the Engineering NZ/Water NZ Rivers Group. Kyle also has a Masters in Business Administration specialising in Corporate Governance.

The scope of Kyle's expertise ranges from numerical modelling of hydrology, hydraulics and sediment transport through to detailed design of river control works, hydraulic structures and complex urban stormwater infrastructure. Kyle is regularly called upon to provide expert evidence and peer review including review of hydrological and hydraulic models, design review and failure diagnosis of flood and erosion protection works and expert advice for complex river and stormwater related projects. He has experience appearing for Applicants, Council and Submitters in resource consent hearings as well as in Environment Court proceedings. He has also provided expert technical advice for formal Determination processes relating to flood hazard mitigation requirements under the Building Act and was a member of the expert panel led by Sir Michael Cullen to investigate the failure of the Rangitaiki River floodwall that caused significant flood damage to Edgecumbe in 2017.

SIGNIFICANT PROJECTS

- > Rangitaiki River Scheme Review: River and floodplain management expert on panel that evaluated the failure of the Rangitaiki River flood defences that flooded Edgecumbe in 2017.
- > Waiho River Stopbank Failure: Technical advisor to Scenic Circle Hotel group who lost one of their facilities (Mueller Hotel) following the breach of the Waiho River stopbank in 2016.
- > Lower Wairau Remediation: Technical expert who developed solution for ongoing sedimentation issue.
- > Otaki River Floodplain Management Plan Review: Technical Lead and project manager for review of Otaki FMP.
- > RiverLink: River Engineering and geomorphology design expert for large scale upgrade of Te Awa Kairangi through the Lower Hutt City Centre.
- > Hurunui Water Project: Assessment of hydromorphological effects: Sediment transport and geomorphology expert providing assessment and evidence for this \$500M irrigation and hydropower project.