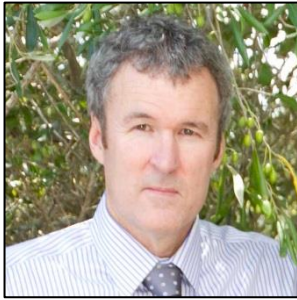


Dr Shane Kelly, Managing Director, Coast and Catchment Ltd.



Qualifications:	BSc (Zoology), PhD (Biological Science)
Scientific Work History:	1994-1999: PhD Research, and co-director of Coastal and Aquatic Systems Ltd.
	1999-2000: Graduate Research in Industry Postdoctoral Fellow
	2000-2003: New Zealand Science and Technology Post-Doctoral Fellow (NIWA)
	2003-2008: Project Leader/Principal Advisor in the Environmental Research and Monitoring, Auckland Regional Council
	2008-Present: Managing Director, Coast and Catchment Ltd.

Summary of experience

I have a relatively diverse range of research experience, with a strong emphasis on applied science, environmental assessment, marine conservation and resource management. I completed my PhD on marine reserves and lobster ecology at the University of Auckland, and then spent my early career studying mussel recruitment processes, reef ecology and sponge aquaculture during two post doctoral fellowships. Over my career I have been involved in underwater marine surveys in regions throughout much of New Zealand, including Auckland, Northland, Taranaki, Waikato, Bay of Plenty, and Hawkes Bay, and Southland.

For 5 ½ years I was Project Leader/Principal Advisor in Environmental Research and Monitoring at the Auckland Regional Council (ARC). In this capacity I managed a number of major research, monitoring, and strategic projects. These included State of the Environment monitoring programmes for water quality, sediment quality and ecosystem health. I was a key technical advisor on major urban infrastructure programmes and supported regulatory and planning teams by providing input to policy and plan development, major consents, and associated hearings and appeals. While at the ARC, also I led the development of the Benthic Health Model (which was developed to assess the health of intertidal communities), and the development of the Waitemata Harbour and Pahurehure Contaminant Accumulation Models.

In 2008 I established Coast and Catchment Ltd, and since that time have provided technical advice on the effects of a numerous coastal and landuse activities including the effects of stormwater and wastewater discharges, dredging, mangrove removal and pollution spills. My work has also included: fisheries surveys; the assessment of environmental values and issues in a number of harbours and estuaries; acted as a hearing commissioner; and providing technical advice on aquaculture development and regulation. I was the lead author of the 2011 and 2014 “State of the Hauraki Gulf” reports prepared for the Hauraki Gulf Forum. I also led the preparation of a scoping and implementation plan for the preparation of the Independent Māori Statutory Board’s report on the environmental wellbeing of Māori in Tāmaki Makaurau.

I have prepared catchment plans and environmental assessments for stormwater management covering much of Auckland’s urban area, and acted as a technical expert and advisor for Greater Wellington Regional Council (GWRC), in relation to Wellington City Council’s (WCC) application for a city-wide stormwater discharge consent. I designed and report on the harbour monitoring programme for

New Zealand's largest wastewater treatment plant at Mangere, and developed Napier City's stormwater monitoring strategy. I have also advised Hawkes Bay Regional Council on impacts related to port dredging, urban stormwater discharges, and discharges from a pulp mill and fertiliser plant, and assisted Gisborne District Council with an assessment of the effects of log-yard runoff from Gisborne Port (for which I acted as a technical advisor in an associated consent hearing).

I continue to maintain strong links with the University of Auckland's, Leigh Marine Laboratory. My involvement with the university includes lecturing on stormwater and sediment effects on the coast, and on the environmental effects of aquaculture. I have supervised a number of postgraduate students, whose studies have included: an examination of the effects of road causeways on northern New Zealand estuaries, seagrass ecology, mangrove ecology, reef community ecology, and mussel bed restoration.

I have completed MfE's "Making Good Decisions" hearing commissioner training, and have a thorough understanding of resource consenting processes. I have acted as a processing officer, a technical advisor to both regulators and applicants, and as an independent hearing commissioner. I have acted as an expert witness at Council, Environment Court, and Treaty of Waitangi Hearings. My roles as a decision maker have included sitting as a panel member on dredging, mangrove clearance, wastewater and aquaculture consent applications. I was also a member of the panel that heard the consent application to abandon the remains of the MV Rena shipwreck in the Bay of Plenty.