

Coastal Ecology and biodiversity offsets



Tonkin + Taylor is New Zealand's leading Environmental and Engineering Consultancy with over 40 years experience specialising in environmental, civil, structural, geotechnical and water resource engineering. These skills have been combined to develop a strong expertise in all facets of coastal and marine engineering, planning and science.

We offer a comprehensive range of coastal ecology services both in New Zealand and overseas; from strategic planning, field investigations and ongoing monitoring, to the assessment of potential ecological effects associated with projects and the development of sustainable and useful ecological mitigation and biodiversity offset packages.

Projects are taken to timely completion by our team of highly qualified ecologists using their expert knowledge and state-of-the-art tools to ensure an appropriate multi-disciplinary approach to coastal ecology and biodiversity offset issues and responsible environmental outcomes.

Expertise

We provide ecological services in:

- Coastal marine ecology
- Coastal marine water and sediment quality
- Coastal habitat enhancement and restoration
- Ecological engineering and design
- Ecological modelling
- Ecological mitigation and biodiversity offsets
- Stakeholder consultation and collaboration

Experience

Our reputation for quality work includes:

- **Waitangi Wharf Upgrade, Chatham Islands**
Marine ecological impact assessment to support an application for resource consent to upgrade the Waitangi Wharf, Chatham Island and preparation of evidence for a Council hearing.
- **Māngere-Otāhuhu mangrove management,**
Preparation ecological inputs for a mangrove management plan for the Māngere-Otāhuhu Local Board for the successful resource consent application, including Mana Whenua consultation in collaboration with Auckland Council.
- **Onehunga Foreshore Restoration project**
Preparation of an ecological effects assessment for a large coastal restoration project, the development of a mitigation package for the project, and preparation of evidence for a Council hearing.
- **Wellington Harbour Dredging, NZ**
Marine ecological investigations, modelling, effects assessment for dredging and marine disposal of up to 7 million cubic metres of sediment from the entrance to Wellington Harbour.
- **Auckland City Council Beach Replenishment projects**
Project management and technical (water quality/ ecology) inputs to resource consenting for 8 beach replenishment schemes, including Kohimarama, St Heliers and Pt Chevalier.
- **Auckland City Council Beach Replenishment projects**
Project management and technical (water quality/ ecology) inputs to resource consenting for 8 beach replenishment schemes, including Kohimarama, St Heliers and Pt Chevalier.

- **Coastal protection works, Kiribati**

Ecological impact assessment (coastal marine and coastal vegetation) and development of management plans and mitigation proposals for coastal protection works at 12 sites on South Tarawa addressing accelerated coastal erosion due to sea level rise.

- **Apia Port Samoa; Nuku' alofa Ferry Terminal, Tonga**

Assessment of water and sediment quality and assistance with a marine ecosystem surveys of the coastal marine environment to support proposed improvements and developments to Port and Wharf facilities in Samoa and Tonga.

- **Sandfly Managemet, Cook Islands**

Ecological assessment and recommendations on how to manage biting midge issues on Duck Pond, Aitutaki.

- **West Harbour Project, Pitcairn Island**

Environmental effects assessment of the West Harbour wharf upgrade and prepared Environmental Management Plan associated with the upgrade works.

