

Oranga Takiwa

Values and aquatic restoration principles & strategies

Te Ao Maori

- Take a catchment wide approach
- Restore awa to their historic reference condition

Whanaungatanga

- Restore system health – not apply “band aid” solutions
- Connect healthy areas to each other

Whakapapa

- Help the awa to heal itself
- Target strategies to the characteristics of each awa

Mauri

- Protect from the headwaters downstream – ki uta ki tai
- Secure the remaining “good places” first
- Secure the critical areas (refuges - hot spots)
- Prioritise critical areas that are degraded but are close to healthy secured areas
- Identify the long term restoration needs of degraded lowland reaches
- Recognise that rivers need water
 - Advocate for flow regimes
 - Mimic pre-control flows in regulated awa
 - Bring back water

Rangatiratanga

- Manage people and their effects, not the awa
- Develop feedback processes.
- Monitor, learn and change
- Promote collaboration

Taonga Tuku Iho

- Work for the long term
- Protect diversity
- Reconnect people to awa and catchments

Mahinga kai

- Prioritise taonga species
- Meet life cycle needs (passage, spawning)
- Extend number of reaches supporting cultural uses

Implementation

| | Riparian planting & fencing | Flow regime | Culverts | Functioning | Spawning habitats | Taonga fish species | Taonga plant species | Kai surveys | Captive rearing | Sediment |
|-------------|---|-------------|----------|-------------|-------------------|---------------------|----------------------|-------------|-----------------|----------|
| Awamoia | | | X | X | X | | | | | |
| Kakanui | | X | X | X | | X | | X | | X |
| Waianakarua | | | X | X | X | X | | X | | |
| Kakaho | X | | X | X | X | | | X | | |
| Ngutukaka | X | | X | X | | X | X | X | | |
| Trotters | X | | X | X | X | | X | | X | X |
| Te Rapuka | X | | X | | | | | X | | |
| Waimataiti | X | | | | | X | | X | | |
| Waitaki | | | | | | X | | X | | |
| Other | Training, wananga, hikoi, takiwa report card, creating rock art | | | | | | | | | |

X - the work is undertaken by TRoM (via Ngai Tahu Fund, MEL)

X - the work is undertaken by Rua McCallum

X - the work is undertaken by Tipa and Associates (NIWA)



Artificial whitebait spawning habitat



Riparian planting



Sediment movement



Estuary restoration



Removing barriers



Creating new rock art



Restoring ponds



Restoring pa harakeke