

### Living Lake Symposium

#### 7-8 November, 2013

#### Amanda Ward, Project Manager





# What is Whakaora Te Waihora ?

- A joint programme
- Based on long-term relationship agreement signed in 2011
- Te Rūnanga o Ngāi Tahu and Environment Canterbury
- Shared commitment to restoration, rejuvenation of Te Waihora mauri, ecosystem health







# Definition

# Whakaora - to save, rescue, resuscitate, revive, restore to health, cure, heal









### Te Waihora







#### **Programme partners**

- Ministry for the Environment, Ngāi Tahu, Environment Canterbury
- Fonterra substantial on-farm support
- Other important contributors include: DOC, SDC, CCC, WET, universities, land owners and local community groups







# Aims

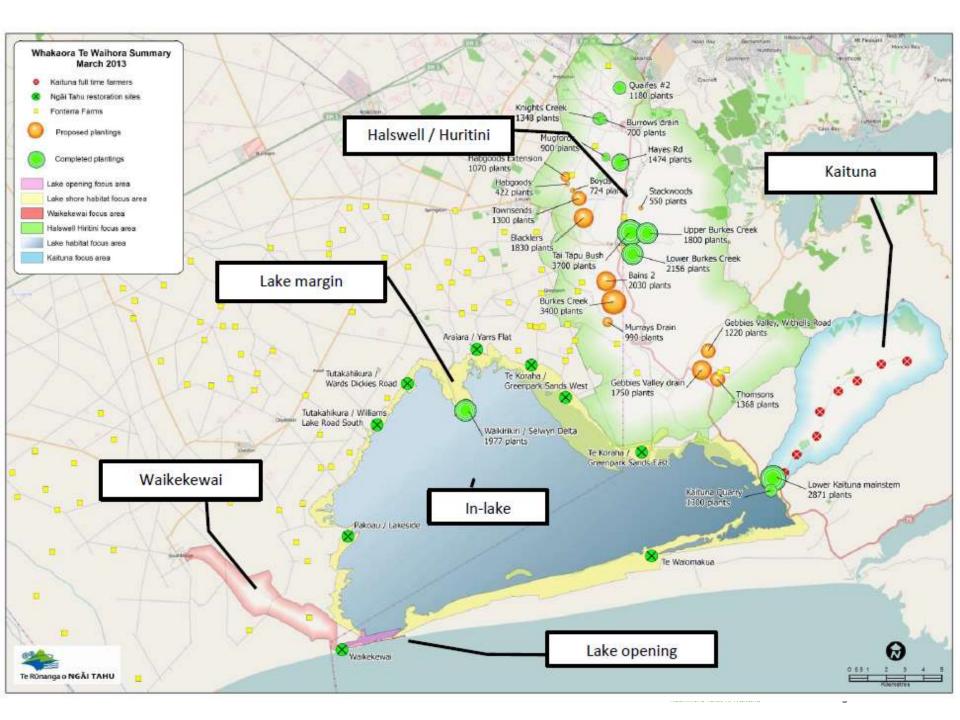
- Accelerate restoration of ecosystem health
- Restore and enhance cultural sites, mahinga kai
- Protect and restore wetland and riparian habitats, indigenous vegetation, wildlife
- Improve lake and catchment management practices
- Establish robust monitoring, investigations programme – lake response to management is understood

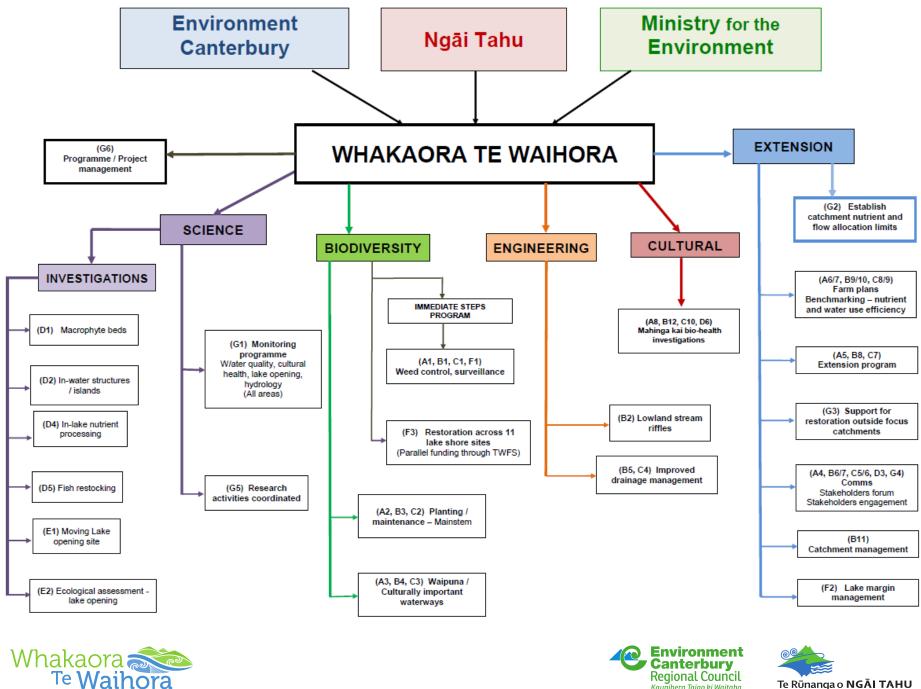
Ki uta ki tai – Mountains to the sea











Te Rūnanga o NGĀI TAHU

Kaunihera Taiao ki Waitaha

## **Biodiversity**

Spring 2013 - More than 100,000 native plants in the ground 2014 – Minimum 120,000 plants

- Benefits:
- In-stream habitat fish, tuna
- Bank stabilisation
- ✓ Water quality
- Decreased maintenance costs / time
- Enhancement mahinga kai resources
- Biodiversity flora, fauna
- **Aesthetic value**
- ✓ Community involvement







- Weed and willow surveys, control
- Waipuna / springs fencing, planting
- 11 lake margin sites DOC and Ngāi Tahu
  - Fencing, stock exclusion, planting, maintenance and monitoring
- 15 km waterway plantings completed
  - sites include Gebbies Valley, Kaituna mainstem, Ahuriri



Lagoon





### **Ongoing management**

- Weed control / maintenance 2 years post planting
- Monitoring successful re-establishment of native diversity, water quality
- Protection agreements discussion and support for landowners
  - Predator control as needed







# Engineering

- Re-grading banks 15km completed year 1,
  ~ 10 km for year 2
- Sediment traps / Riffle sequences
- Improved management demonstration sites,

education, maintenance







#### Extension

Benchmarking – Nutrient and water use efficiency - 25 farms Farm plans – 35 plans (Kaituna, Halswell) Fonterra - 90 on-farm visits Working with landowners / managers – improve management practices Technical support – waterways management







### **Other work underway**

Science investigations

Kaituna – Landowners desired a catchment strategy Waikekewai – Catchment strategy Lower Halswell/Huritini – larger catchment, different land uses.

> Community strategy for lower catchment (including Ahuriri Lagoon and Rail Trail)







#### Lake margin – Development of strategy - Identification of priority sites (DOC, individual landowners)

#### Investigate – Te Waihora Research/Visitor Centre

#### Support – all stakeholders Communication – key

WTW website







- One of New Zealand's largest ecological clean-ups
- Successful first year year 2 underway
- Spring 2013 milestone 100,000 plants in the ground
- Long term programme of work
- Strong relationships being built
  - stakeholders supportive, enthusiastic, willing

Mā whero, mā pako; ka oti ai te mahi The task shall be achieved through unity







### **Questions**?

#### www.tewaihora.org





