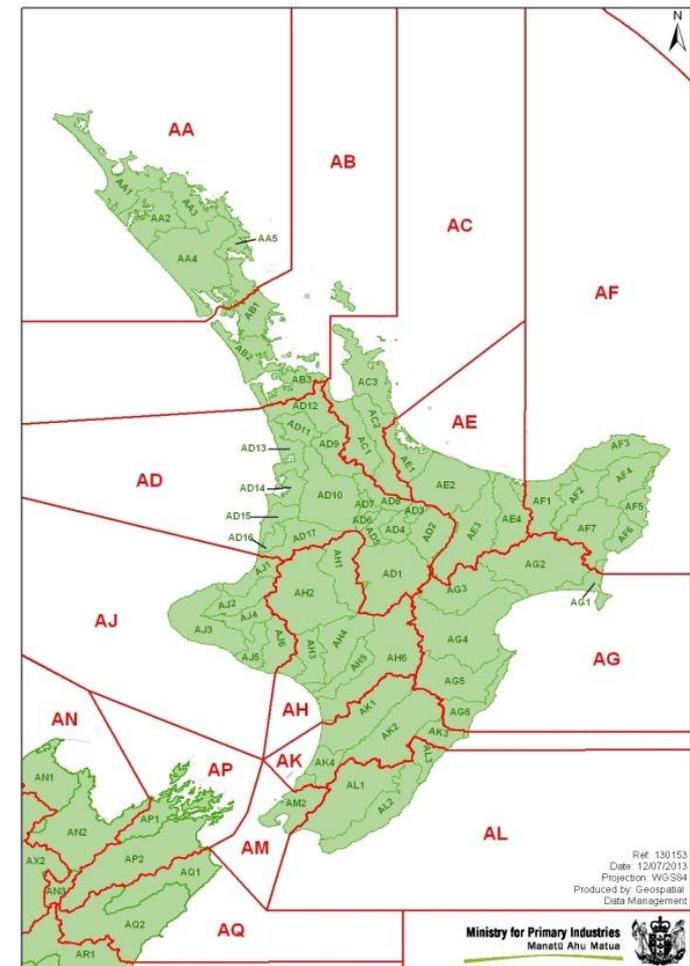


CSG and EELS

Tainui, Nicholas Manukau, and
Eel Enhancement Co., Mike Holmes

Eel Fishery

- Represents Quota Holders
(~ 50% Iwi/Maori)
- Engages with all fishery interests
- Funded from Quota



EECo = advocacy, for;

- Habitat Quality & Quantity
- QMS & Fishery Management
- Research
- Enhancement



Fishery Management; last 10 years

- QMS N. Is. 2004 / 2007 & catch cuts
- Further Area closures ~ ½ North Island
- Larger Net Escape Vents (31mm, was 25mm)
- 4kg upper size (2kg upper size limit Waikato Catchment)
- Release LFE female migrators
- Extra Data Collection
- Key stock indicators positive;
 - CPUE,
 - Size-frequency
 - Juvenile-recruitment.



Eel Habitat, past and present

NZ waterways have been, and are continuing to be;

- channel-ised
- drained
- pumped
- flood-protected/reduced (eg , Waikato Basin, 90% of wetlands gone)
- swamps and ox-bows drained & in-filled
- walled-off
- turbined
- Dehydrated = extraction & irrigation
- willow-denuded
- polluted by;
 - excess nutrients
 - fine sediments
 - toxic algae (eg lakes Waikare, Tutira, Omapere and more)
 - pest fish



Eel Habitat, Karapiro Stream



Eel Habitat, Karapiro



Eel Habitat, Karapiro > Waikato



Eel Habitat, Karapiro > Waikato



Eel Habitat, Karapiro > Waikato



Eel Feeding, Puniu



Eel Habitat, Waipa



Eel Habitat, Waipa



Eel Habitat, Waipa



Eel Habitat, Waipa



Eel Habitat, Barriers



Eel Habitat, Lake Waikare, silted & shallow



Eel Habitat, Lake Waikare, Koi Carp



Eel Habitat, Lake Waikare, barrier



Eel Habitat, Lake Waikare, “in-bloom”



As bad as it gets? Blue-Green Algae

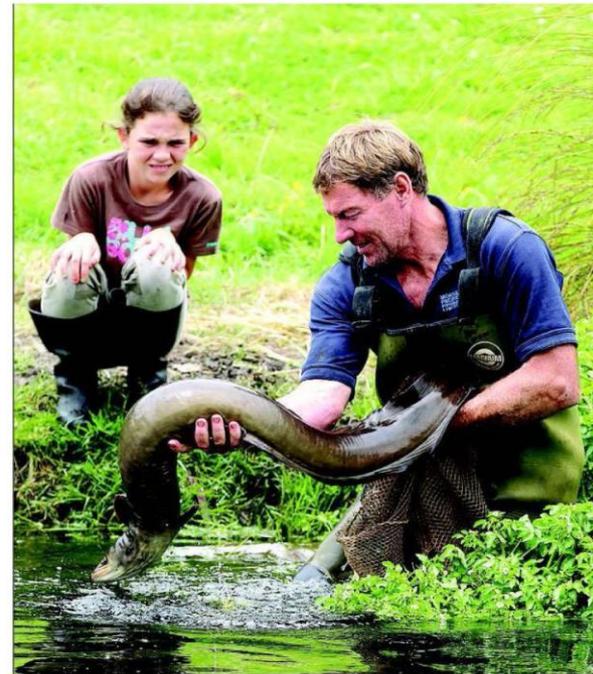
South Island Lake



North Island River



Eel Habitat = Eel productivity



WHAT A WHOPPER: Ian Mitchell and his granddaughter, Maddy Smith, return an eel to its home.
PHOTO/DUNCAN BROWN

Eel + Habitat = Opportunity

- Central Government
 - instruct Councils on good outcomes for Water Quality, eg National Policy Statement (NPS)
- Councils to improve
 - Monitoring
 - Good practice eg recognise benefits of Willow
 - Plans and Consents
- Farmers to improve by
 - better practices, via Regulation & Education
 - if to Irrigate, => use good storage => good for Eel
- EEC_o = More;
 - Comms. re Environmental Objectives eg Website
 - Involvement in Plans & Consents
 - Monitoring of Eel resource (the Canary in the Coalmine) eg move to Fine Scale reporting by Industry (SIEIA & EEC_o)
- Better relationships and cooperation between EEC_o and many Iwi (eg Tainui, Ngati Hine, plus NEA/TOKM/AFL) for better Eel stocks by habitat & stock enhancement.

