

# Design collaborative mapping of waterways, kainga and whānau.' Mangapārae Papakainga Restoration

Whātātūtū, Tairāwhiti Gisborne: Reforesting our whenua, our whānau initiative.

## Background

Te Kooti Arikirangi Te Turuki prophesied over the lands at Mangatū concerning its erosion which our whānau in 2017 interprets, underpins the basic need for kaitiakitanga and healing in the wake of colonization, land loss, deforestation, farming and mismanagement of our whenua that has led to an erosion of our ways of knowing and being associated with uninterrupted tenancy, and caring for the whenua, over many generations. Our whānau led and managed restoration project hopes to address the loss of this mātauranga and, to have an opportunity, to demonstrate our commitment of relationship with our whenua toward wellness and flourishing for the land and the people.

## eDNA wananga

To give strength to our Wai Maori supported mahi, we participated in the Environmental Protection Authority's Wai Tuwhera o te Taiao – Open Waters Aotearoa, and the Wilderlab's eDNA (eDNA mini kit) training. In addition we identified water sample sites of interests for carrying out testing and considered the potential cultural significance of the waters and protection issues around I.P. and sample/data sovereignty and sharing. This training contributed to our understanding toward protecting and monitoring our waterways. The week of Matariki wananga re-energised our commitment to the kaupapa, wellbeing and whanaungatanga especially since it was a Matariki holiday weekend that brought whanau home. The cousin, Mere Tamanui, lent us her taiao expertise and a couple of eDNA mini kits enthusiastically guiding us through the water testing process of collecting the tiny traces of genetic material in our water. It was more than delightful to have had our children and grandchildren, and other whanau there to share the experience of the taking of the first samples drawn from our wai at Mangapārae and Ōmapere, Urukōkōmuka.(Number 1 pool). Samples were also drawn from other sacred and significant cultural sites.in particular the headwaters of Urukōkōmuka, Mangapapa and Maia with whanau from Ngariki Kaiputahi and are awaiting results (see images below)..



**Figure 1 eDNA samples Sjimmy-Zev, Mere, Ginia, Maiangi**

Our eDNA samples to Wilderlab through the EPA's Wai Tuwhera o te Taiao programme results. We have shared the results below for the two test sites. Mangapārae and Urukōkōmuka. The wheel of life is a visual representation of all the species identified in our samples, ordered according to their closest genetic ancestors. The branches in the centre of the wheel make up a diagram referred to as a phylogenetic tree. Thank you Mere Tamanui for the support.





Figure 2 Red Fin Bully, Urukōkōmuka





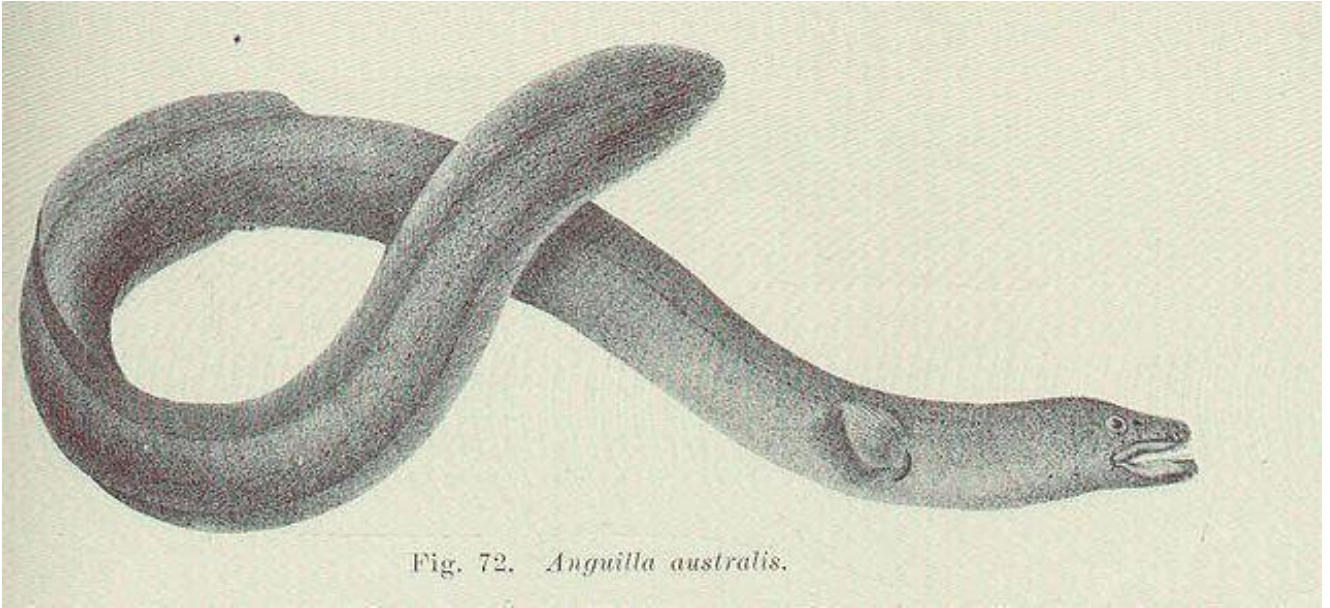


Fig. 72. *Anguilla australis*.

**Figure 4 Short Fin Tuna, Mangapārae Puna**





Figure 5 Sjimmy Zev





Figure 6 Mere Tamanui, Virginia Tamanui, Maiangi Mei, Manuao



Figure 7 Mangaparae whanau sampling team





Figure 8 Ngariki Kaiputahi team Matawhero Lloyd, Nigel, Virginia, Marama and Eru Tamanui



**Figure 9 Head waters at Urukokomuka**





Figure 10 Headwaters



Figure 11 Mangapapa





**Figure 12 Maia**

### **Ewe whenua map**

Whānau wananga collaborative mapping of waterways, kainga and whānau. Ewe whenua map was refreshed by whānau to provide historical detail of whanau living along our awa, their kainga and relationship to the waterways. Whanau contributed, directly writing their stories onto the map over a period of time at wananga, at their kainga, through korero over kai and cuppa tea. The map together with our wananga provides context to why we are dedicated to restoring the whenua through native tree planting and creating healthier waterways.

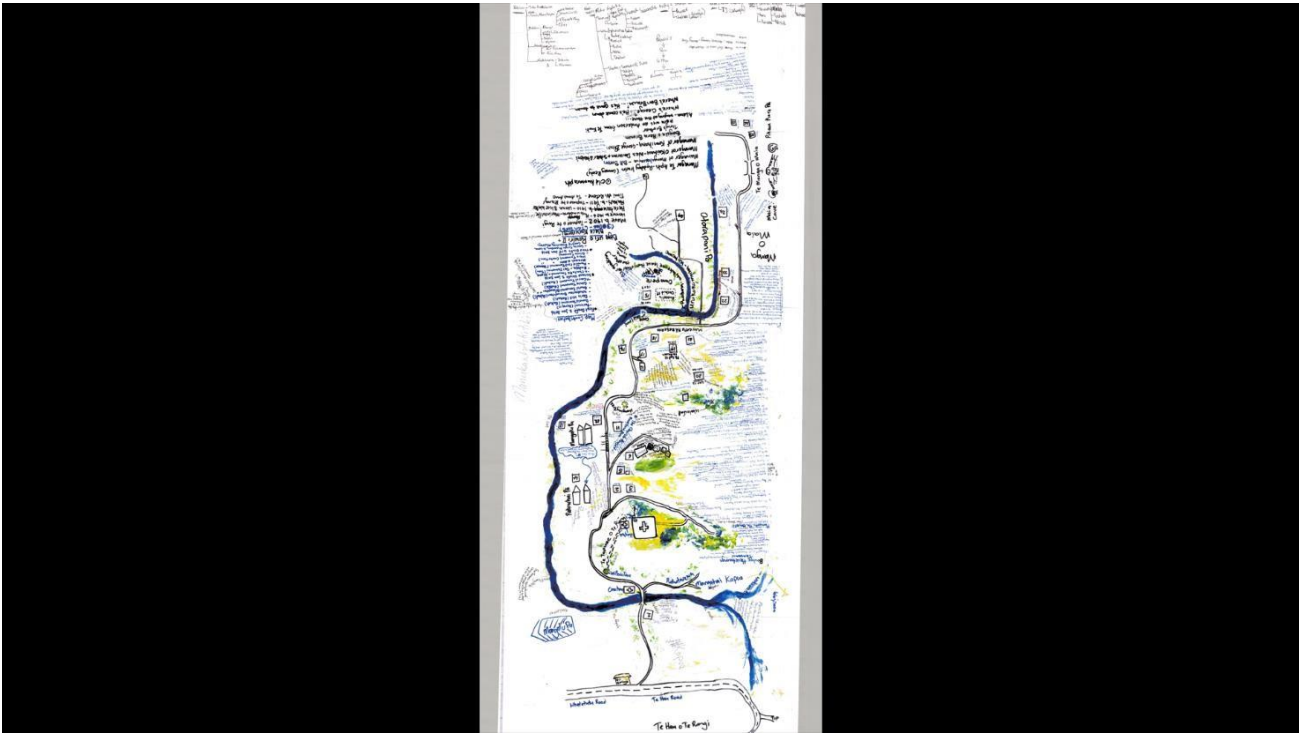


Figure 13 copyright Virginia Tamanui

## Oriki

Nga Oriki nā Nanny Mā

Written by Virginia Tamanui

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