

# *Ngati Kahu o Torongare*

*Annual tuna survey  
March 16-19th*

## **NGARARAITUNUA MARAE**

**March 16-Powhiri 8:30 am**

**ALL WELCOME**

**KAI PROVIDED**

**4-DAY WANANGA**

**CAN STAY AT MARAE**

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RSVP for catering purposes



# Paeroa-Fish survey

<b>Saturday 16 March</b>	<b>Sunday 17 March</b>	<b>Monday 18 March</b>	<b>Tuesday 19 March</b>
<ul style="list-style-type: none"> <li>▪ 8:30 – Powhiri</li> <li>▪ 9:00 - Cuppa</li> <li>▪ 9:15 – Planning</li> <li>▪ 9:45 – On the road</li> <li>▪ 10:00 – Waikoropupu Down stream</li> <li>▪ 12:00 – Lunch on site</li> <li>▪ 1:00 – Waikoropupu upstream</li> <li>▪ 3:00 – Back to marae</li> <li>▪ 4:00 -Clean up/set nets</li> <li>▪ 5:00 - Reflection</li> <li>▪ 6:00 - Dinner</li> </ul>	<ul style="list-style-type: none"> <li>▪ 8:00 – breakfast</li> <li>▪ 8:30 – Hit the rd</li> <li>▪ 9:00 – Maruarua sets</li> <li>▪ 11:00 - Inukaraka</li> <li>▪ 12:00 – Lunch</li> <li>▪ 1:00 – Parekiore</li> <li>▪ 3:00 – Back to marae</li> <li>▪ 4:00 – Clean up</li> <li>▪ 5:00 – Reflection</li> <li>▪ 6:00 - Dinner</li> </ul>	<ul style="list-style-type: none"> <li>▪ 8:00 – Breakfast</li> <li>▪ 8:30 –Hit the rd</li> <li>▪ 9:00 – Ahotu</li> <li>▪ 11:00 – Next site</li> <li>▪ 12:00 – Lunch</li> <li>▪ 1:00 – Kaurihohore</li> <li>▪ 3:00 – Back to marae</li> <li>▪ 4:00 – Set nets at lake &amp; clean up</li> <li>▪ 5:00 – Reflection</li> <li>▪ 6:00 - Dinner</li> </ul>	<ul style="list-style-type: none"> <li>▪ 8:00 – Breakfast</li> <li>▪ 8:30 – Hit the rd</li> <li>▪ 9:00 – Waihirere lake</li> <li>▪ 12:00 – Lunch</li> <li>▪ 1:00 – Clean up</li> <li>▪ 3:00 – Finish up</li> </ul>

# Technique and monitoring gear required

Electric fishing	Ysi water Quality monitoring	Netting and geminos	Kick sampling for invertabrets
<ul style="list-style-type: none"> <li>• An electric probe that we stick in water to stun any fish in stream. (Doesn't kill them)</li> <li>• On the down stream current we have nets that collect fish.</li> <li>• Team on banks transfer with buckets to get survey on back.</li> </ul>	<ul style="list-style-type: none"> <li>• YSI machine is used a lot with in council and environment studies.</li> <li>• pH</li> <li>• DO%</li> <li>• Conductivity</li> <li>• Sediment load</li> <li>• Turbidity</li> <li>• And many more things</li> </ul>	<ul style="list-style-type: none"> <li>• Puanga nets to catch eels and elvers.</li> <li>• Gemino nets to catch other smaller fish</li> </ul>	<ul style="list-style-type: none"> <li>• Kick netting is a simple kicking in front of net and catching invertaberts in front of net.</li> <li>• Invertabrates are indicators good or bad water.</li> </ul>

# What to bring ?

- Gumboots
- Blankets / pillow /clothes and towel (if you want to stay at marae)
- Sun Hat
- Water bottle
- Hivis (if you have one)
- Pen and paper for any notes or reflection on day.
- Kai will be provided /if any special need rsvp or bring your own.

# Purpose of wananga

- Awareness of our water and taonga species
- Hikoi Awa (go to some of our Awa our people don't know)  
Learn hitori o nga awa.
- Teach our whanau/hapu /community some skills and matauranga around the waterways.
- Building capacity amongst our hapu and whanau.
- What are our aspirations of our waterways moving forward .
- Sharing Matauranga .
- See if our elver tuna are making it back to headlands.
- See what is present in waterways.