

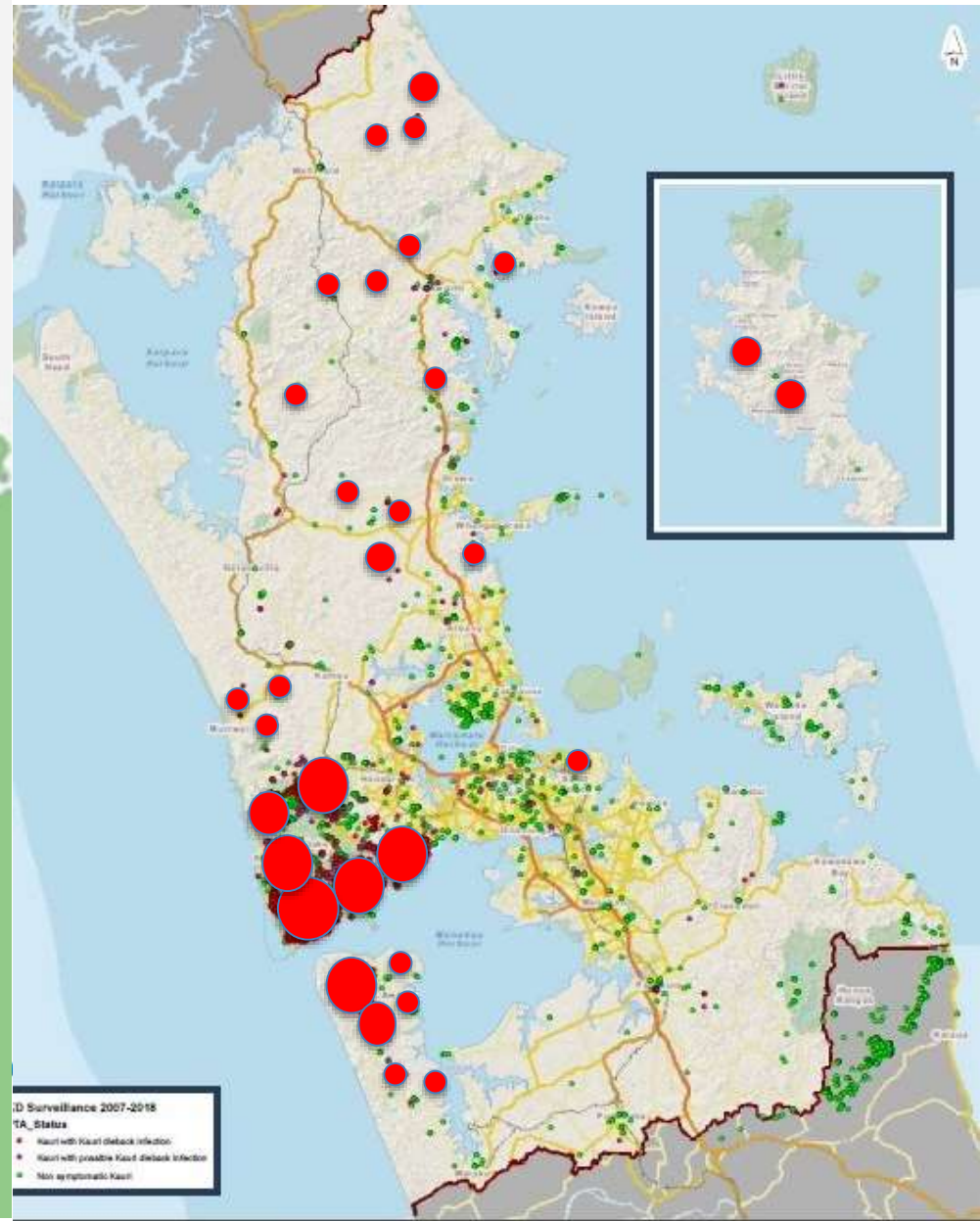
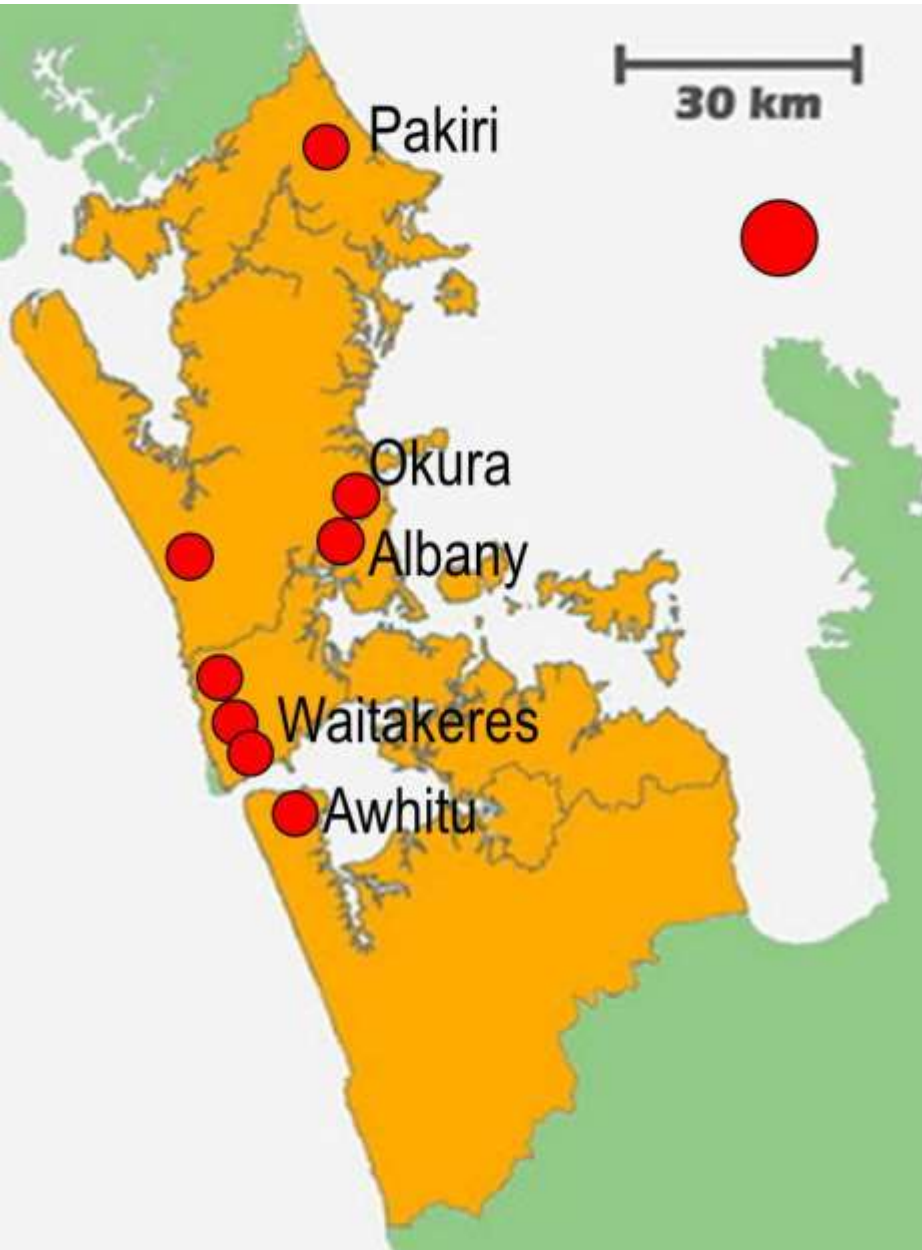
# Managing trap or bait lines in kauri dieback areas

*14 September 2019*

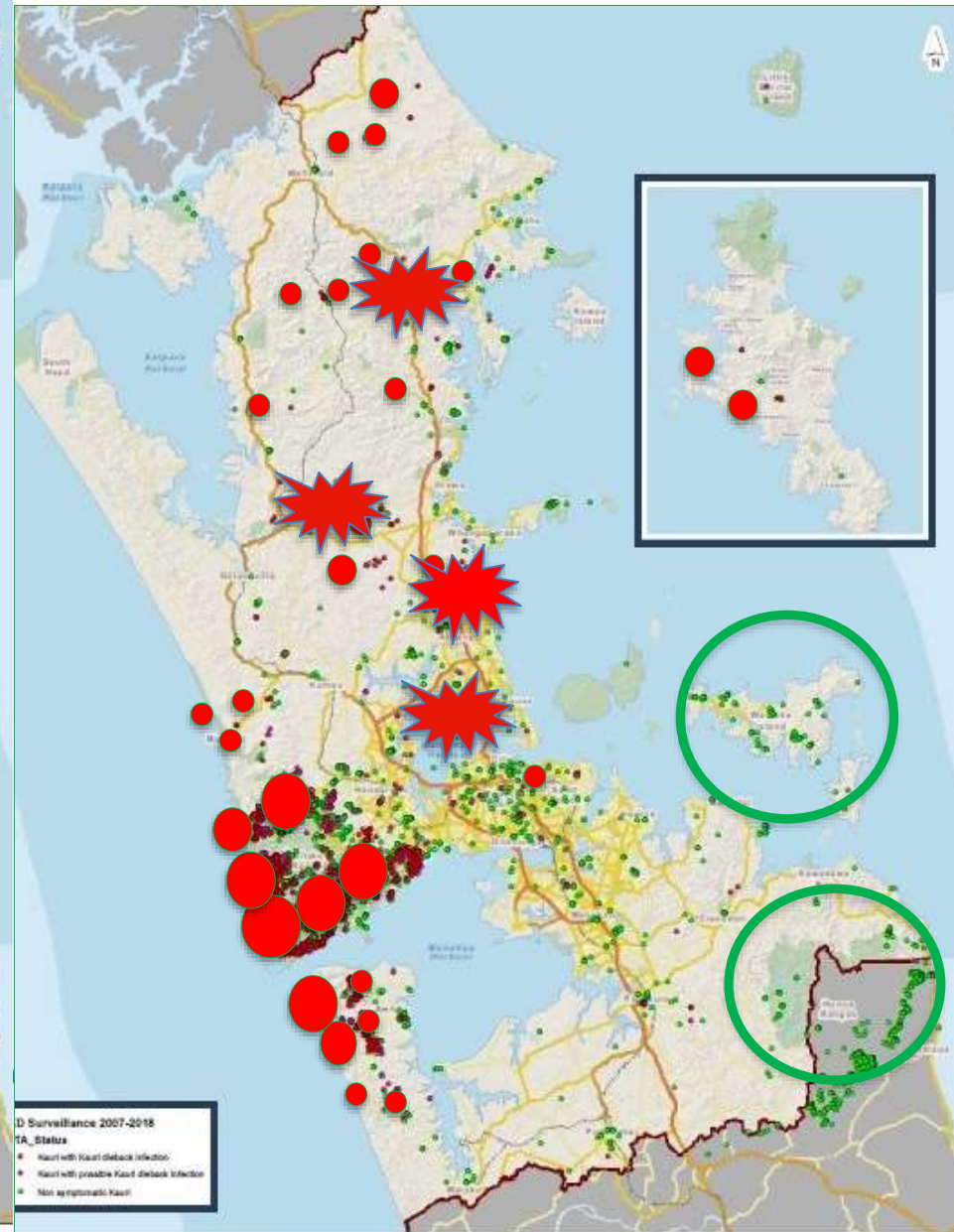
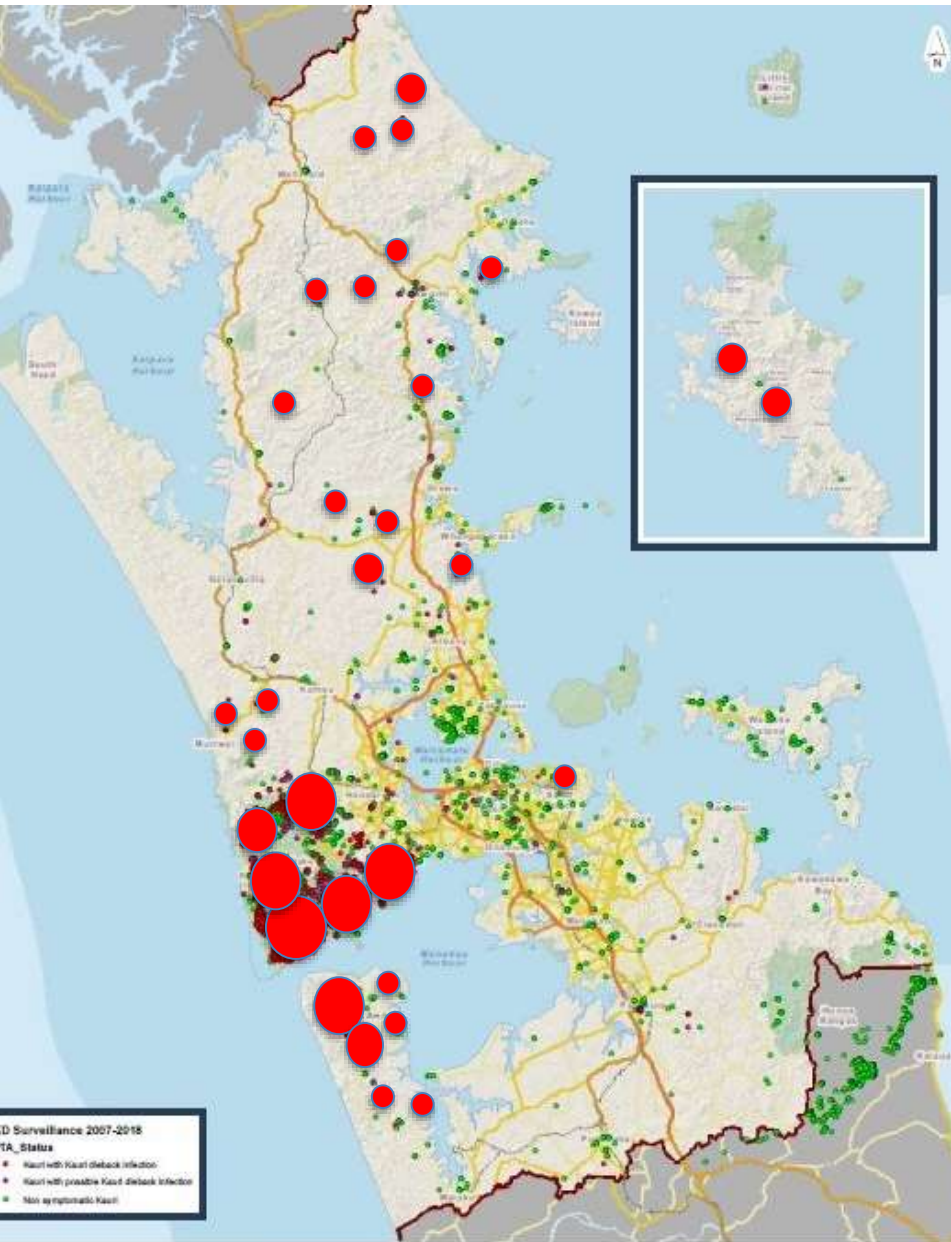
# Overview

1. Background
2. Standard Operating Procedure Kauri Dieback
3. Kauri Dieback Pest Management Decision Tree
4. Hygiene Tips
5. Training available for volunteer groups

# Kauri Dieback 2008 & 2016 in Auckland



# Kauri Dieback 2016 & 2018 in Auckland



# Auckland Council's Kauri Dieback SOP

- Hygiene- and zone-based
- Aimed at stopping the movement of infected material
- For anyone undertaking activities on AC owned and managed land
- Currently zone-based however update will include addition of 3x dripline criteria also

## Standard Operating Procedures for Kauri Dieback

August 2017



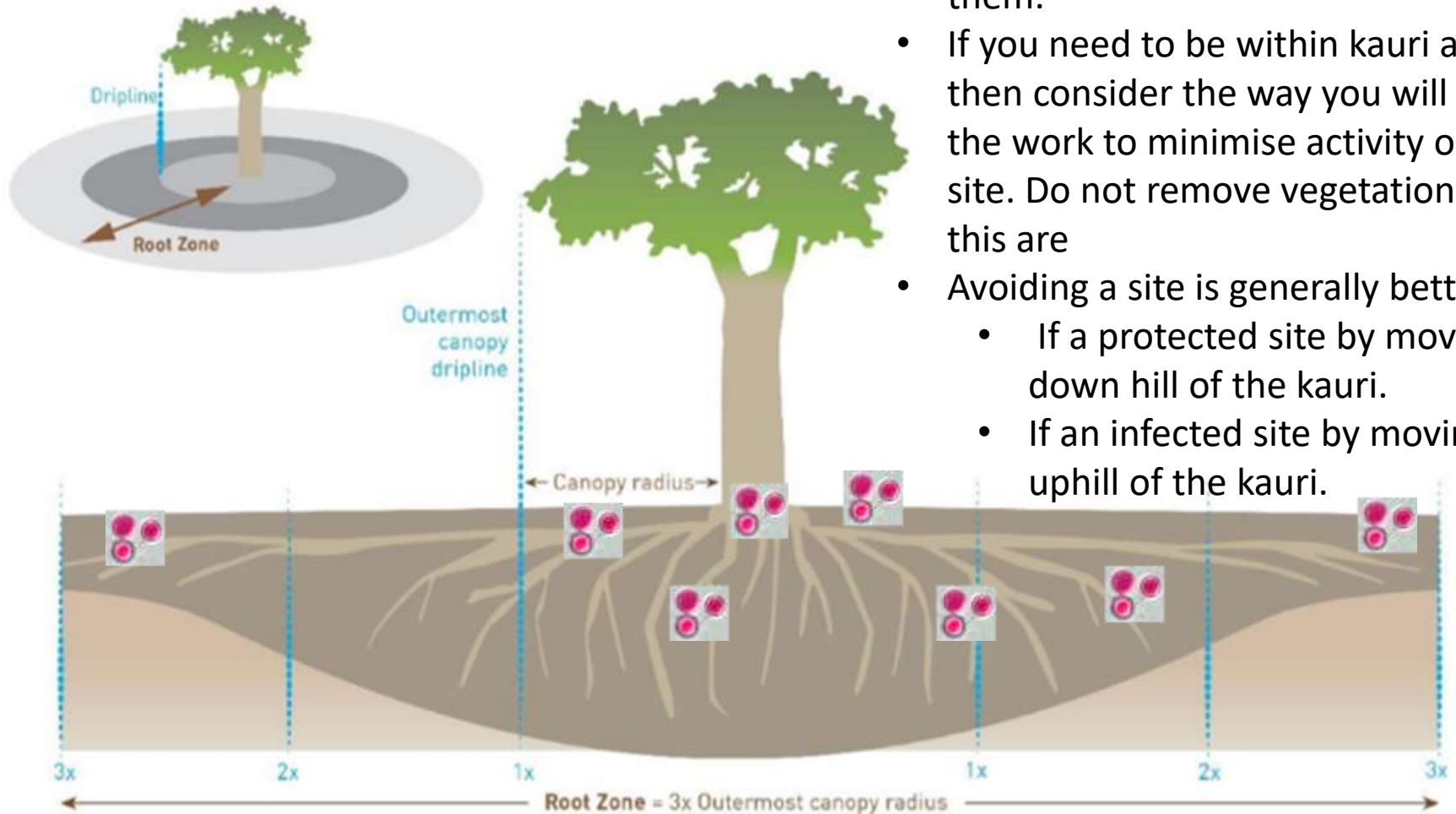
# The SOP identifies Kauri Areas in three distinct zones within the Auckland Region:

**Protection Zone** = *Kauri dieback has not been detected and has significant areas of non-symptomatic Kauri present.*

**Undetected Zone** = *Kauri dieback is not widely found, or its presence is unknown. This zone includes areas not covered in the Protection or Contaminated zones. Although the 'Undetected' zone includes parks without disease detected, there are private properties in this zone with Kauri dieback infection and caution is required*

**Contaminated Zone** = *Kauri dieback disease is present and widely distributed in this zone*

# Training: Off track



- If you are setting up lines, then do this to avoid being within 3 times the radius of all kauri and at least the height of rickers away from them.
- If you need to be within kauri areas, then consider the way you will do the work to minimise activity on the site. Do not remove vegetation from this area
- Avoiding a site is generally better.
  - If a protected site by moving down hill of the kauri.
  - If an infected site by moving uphill of the kauri.

# Decision Tree: Undetected Zone

Kauri prevalence	Process	Activity	Hygiene
No Kauri	Confirmation via GeoMaps	Proceed as per normal	Proceed as per normal
Sporadic Kauri	Lines to avoid Kauri Hygiene Areas (KHA)	Set traps/ baitlines more than 3x drip zone	
Stands of Kauri	Mix of lines in and outside of KHA's	All tools/ equipment steam cleaned prior to installation.	Don't move equipment between stands. Clean footwear between stands
Contiguous Kauri	All lines in KHA's	All tools/ equipment steam cleaned prior to installation.	Don't move equipment between parks. Clean footwear between catchments or at end of lines

**Maintenance: Ideally have dedicated traps per site**  
**If need to be removed: Dry brush dirt, bag prior to removal from site**

**Steam clean and sterigene before reinstallation**

# Decision Tree: Contaminated Zone

Kauri prevalence	Process	Activity	Hygiene
Infected Kauri	Confirmation via GeoMaps	Treat as isolation zone	Do not enter infected stands
Sporadic Kauri some infection	Lines to avoid Kauri Hygiene Areas (KHA)	Create isolation from infected tree or trees by preventing access uphill of infection, at least 3xDL. Downhill: traps and walking shall not be set downhill or in overland flow path of Infected tree / trees	No movement of traps once placed. Service on site. All ground contact articles are deemed infected
Stands of Kauri some infection	Mix of lines in and outside of KHA's	The infected catchment shall be accessed last if traps exist in this catchment.	Don't move equipment between stands. Exiting: have dedicated footwear for infected site
Contiguous Infected Kauri	Discuss total isolation method	AVOID-alternative PM regime required	

# Decision Tree: Protection Zone

Kauri prevalence	Process	Activity	Hygiene
Protection status or CAN	All actions undertaken are to preserve the protected status. Audits of contractor are required	All new traps, traps must not be moved	No soil to be brought into park. Footwear cleaning as per SOP in first instance and between, stands catchments, streams ridgelines, at the end of each contour line
Sporadic Kauri	Lines to avoid Kauri Hygiene Areas (KHA)	Set new traps/ baitlines more than 3x drip zone	Traps shall not be moved. Service on site.
Stands of Kauri	Mix of lines in and outside of KHA's	All tools/ equipment steam cleaned prior to installation min ground disturbance to kauri	Traps shall not be moved. Service on site.
Contiguous Kauri	All lines in KHA's	All tools/ equipment steam cleaned prior to installation min ground disturbance to	Traps shall not be moved. Service on site.

# Training: Good hygiene



- 1. The bagging of dirty footwear/ gear for taking and cleaning at home  
Moving on and off track
- 2. Dry brush mud and soil off footwear
- Wet scrub with a small amount of 2% Sterigene
- Rinse with water
- Spray the footwear with 2% Sterigene
- Wait at least 1 minute before proceeding.



# Workshops for Working In Closed Reserves

- To enable pest control and associated works to continue in closed area.
- Set out requirements for all future works.
- Provide groups with information to enable creation of situation-specific hygiene plans.
- Workshops underway (Friends of Alice Eaves, Friends of Kirks Bush).



# Workshops for Working In Closed Reserves

- Volunteer groups will be registered once hygiene plan approved by Council.
- Kauri dieback support via current Council contacts.
- Groups audited to ensure individual consistency.
- Council to encourage and support initiatives.





# KEEP KAURI STANDING

STOP KAURI DIEBACK DISEASE SPREADING

KIA TOITU HE KAURI

[WWW.KAURIDIEBACK.CO.NZ](http://WWW.KAURIDIEBACK.CO.NZ)