

## **Windy Hill Rosalie Bay Catchment Trust Monitoring Programme 2021**

### **1. Birds**

#### **From 2019 bird counts planned for every five years.**

To 2000 -2018 - Twenty-four Transects with 4 stations at 50m spacing – 80 stations. Each station monitored 6 times for 3 minutes twice a year 2000-2009, once a year, in December, from 2010. Twenty transects are established in the Sanctuary, four transects in unmanaged Control sites.

Bird monitoring reports produced by Dr Sam Ferreira 2000 to 2008, Prof John Ogden 2008 to current.

2019 – December - Bird Count as part of Aotea island wide bird count – all field team participating in community monitoring.

Pateke numbers and breeding outcomes are monitored and reported on during the breeding season.

Twenty year Count – 10 stations counted 10 times in May – Dean Medland

**2. Seabirds** – Black petrel and grey faced petrel nests are monitored annually during the breeding season. Nests and nesting sites are gps'd and positions marked on Sanctuary maps. Wildlife International undertaking Black Petrel Survey.

Chris Gaskin to visit to reestablish bird caller.

### **3. Weta**

10 weta bamboo 'motels' established at WH in 2006.

2006 monitored monthly, 2007-2013 monitored May and November annually.

10 Weta motels established in Control site 2006 – 2008.

Weta number and type recorded.

Weta number and type recorded in lizard boxes at BW monitored twice annually.

### **4. Lizards**

10 Onduline stack Lizard motels established at WH in 2006.

2006 monitored monthly, 2007-2013 monitored May and November annually.

10 Lizard motels established in Control site 2006 – 2008. Re-established 2010. Lizard type and size recorded.

7 Lizard Boxes established BW 2010. Monitored twice a year.

Type and size recorded.

Eco Gecko – 600 ACO foam wraps established in Sanctuary and Control in areas in 2007-2014. 300 Onduline of these stacks established 2009 in Sanctuary and Control. Monitored annually.

40 foam refugia built in 2010 to monitor for Duvaucel Gecko.

Summer monitoring for lizards using 20 G-minnow traps and tracking tunnels established 2011.

Arboreal monitoring using modified tracking tunnels undertaken in 2013.

Chevron Skinks are noted and reported on as seen.

### **5. Invertebrates**

Invertebrate type and number recorded in Lizard Onduline stacks as above.

### **6. Seedlings**

8 seedling plots established 2006 – 4 at WH and 4 in Control site. Reduced to 6 in 2007.

Monitored twice a year in May and November to 2014 -Every five years from then.

Six indicator seedlings – nikau, supplejack, tarairi, kohekohe, puriri, and kahikatea are recorded at numbers below 5cm, measured between 5-30cm, and numbers over 30cm.

### **7. Freshwater Stream**

Seven different streams throughout the catchment area have been monitored since 2005 for presence and abundance.

### **8. Rats**

A total of 150 rat tracking tunnels are permanently established on random compass bearings in each project area in the Sanctuary and 60 established in three unmanaged Control sites. Tunnels are 50m apart.

Tunnels are monitored overnight four times a year – Feb, May, Aug, and November.

### **9. Weeds**

Pampas, jasmine, plectranthus, Mexican devilweed, hakea, aristeia, pine trees and any other weed seen are removed as required. Infestation sites are mapped and checked annually.

New Taumata Pest Managed Area full weed survey, gpsed and mapped and prioritised.

Auckland Council weed survey – follow up weeds identified.

Review of weeds in new Tryphena Ridge area and on Badraun property.