

8. Management Units

8.1 Overview

The project area contains a number of reserves within the Pourewa Valley, including the Pourewa stream and its tributaries that require restoration work including pest plant control, pest animal control and planting. These reserves have been identified as management units (MU's) in Figure 26, with required weed and pest animal control and planting options outlined.



Figure 26:

Management Units

8.4 St Johns Bush (Management Unit 4)

The land parcel is an Auckland Council Community Park with an extensive track network that provides access to the surrounding suburban area via entrances on St Johns Road, Gowing Drive and Worcester Road. The land parcel also adjoins St Johns Theological College.

The reserve is made up of regenerating forest consisting of indigenous vegetation types typical of broadleaved scrub/forest. Canopy species include karo, māhoe, kānuka, karaka, and kohekohe. This land parcel is a Significant Ecological Area (SEA) – Broadleaved species scrub/forest (VS5).

All pest plant incursions are fewer than 20% of cover/biomass, and are discrete species without any species dominating.



Figure 32: Pest plant abundance (density % of biomass)

8.4.1 Pest Plant Species & Control Method

Common name	Threat	ID	Method (chem; non-chem)	Who
Arum lily (<i>Zantedeschia aethiopica</i>)	Sustained Control	3,8	CP H	Volunteer Volunteer

Bangalow Palm (<i>Archontophoenix cunninghamiana</i>)	Not listed	15	CP; FS; DF (trees) H	Eco-Contractor Eco-Contractor
Black Wattle (<i>Acacia mearnsii</i>)	Not listed	6,8	CP; R; DF H (seedlings); C; CM	Volunteer Volunteer (seedlings)/Eco- Contractor (Trees)
Ginger (<i>Hedychium gardnerianum</i> ; <i>H. flavescens</i>)	Sustained Control	6	CP H	Volunteer Volunteer
Jasmine (<i>Jasminum polyanthum</i>)	Sustained Control	13	CP;FS H	Eco-Contractor Volunteer
Privet – Tree (<i>Ligustrum lucidum</i>)	Sustained Control	6,8	CP; R; DF H (seedlings); C; CM	Volunteer Volunteer (seedlings)/Eco- Contractor (Trees)
Spider Plant (<i>Chlorophytum comosum</i>)	Not listed	3	?	
Woolly Nightshade (<i>Solanum mauritianum</i>)	Sustained Control	13	CP; R H;C	Volunteer Volunteer

Method code: Cut & Paste (CP) Cut – non chemical (C) Ringbark (R) Foliar spray (FS) Drill & Fill (DF) Hand (H) Chip & Mulch (CM)

***Species where areas of incursion are one species only (ID numbers in bold)**

8.4.2 Indicative planting schedule for forest canopy and understory

Common name	Species	Plant Grade	Spacing (m)



Figure 31: Pest animal control sites

8.4.3 Pest Animal Species & Control Method

Species	Method	Trap Type	Who
Rat	T	SnapE	Volunteer Eco Contractor
Possum	T	Timms Trapinator	Volunteer Eco Contractor
Mice	T	SnapE	Volunteer Eco Contractor
Hedgehogs	T	Timms	Volunteer
Wasp	S	Spray	Volunteer

Method code: Bait (B) Trap (T) types of trap Spray (S)



Figure 32: Water Quality Monitoring sites and In Stream values

8.4.5 Water Quality Results (Baseline)

Site	Temp	Clarity	Turbidity	PH	D.O	Nitrate	Nitrite	Phosphorous	Phosphate
St Johns Bush	18.1	37	20.6	5.5	8	0	0	0.025	0.077

8.4.6 Volunteer Groups

- Conservation Volunteers New Zealand manages volunteers for the predator control. Contact Kiri Huddleston for more information.