



# Habitat Restorations Aotearoa Ltd.

[glen@habitatrestorations.nz](mailto:glen@habitatrestorations.nz)

027 424 0224

[www.habitatrestorations.nz](http://www.habitatrestorations.nz)

## Waiora Manuherekia

### Planting proposal for Hills Creek (Jeremy Anderson)

Please find below suggested plant species, planting densities, and site preparation for the wetland. These suggestions have considered the approximate budget for planting allocated and recommendations provide the best outcomes for the budgets.

The planting site includes a flat area with a spring and bank area, including a bank below the house (Figure 5).

The flat area has a good base of regenerating plants, including rushes and carex, and is in the process of reconvertng to a wetland (Figure 6). It is recommended that additional plants are incorporated into this area. Placement of these plants will need to be carefully considered to ensure they are not inundated during wetter months and any woody species are planted on higher parts of the area. Mainly wet tolerant plants should be used within this area.

The property owners wish to retain views from the house, and it will also be important to avoid shading effects from the planting on the house (Figure 7). As such, it is suggested that plants on the bank below the house are restricted in height. Planting the banks will enable more planting diversity, than if only the flat area is planted (Figure 8).

**Budget:** \$18,000

**Total plant numbers:** approximately 800 plants.

#### **Wetland planting:**

It is recommended that planting is at 2m spacings.

Recommended planting list:

- *Austroderia richardii* (toetoe)
- *Coprosma propinqua* (mingimingi)
- *Cordyline australis* (tī kōuka/cabbage tree)
- *Phormium tenax* (harakeke/flax)
- *Plagianthus regius* (ribbonwood)

#### **Bank planting below the house:**

It is recommended that planting is at 2m spacings.

Recommended planting list:

- *Austroderia richardii* (toetoe)
- *Carmichaelia crassicaulis* (coral broom)
- *Carmichaelia petriei* (desert broom)
- *Coprosma intertexta* (coprosma)
- *Coprosma rhamnoides* (twiggy coprosma)
- *Coprosma rugosa* (needle-leaved mountain coprosma)
- *Phormium tenax* (harakeke/flax)

**Bank planting away from the house:**

It is recommended that planting is at 2m spacings.

Recommended planting list:

- *Austroderia richardii* (toetoe)
- *Carmichaelia crassicaulis* (coral broom)
- *Carmichaelia petriei* (desert broom)
- *Coprosma cheesemanii* (coprosma)
- *Coprosma dumosa* (coprosma)
- *Coprosma intertexta* (coprosma)
- *Coprosma rhamnoides* (twiggy coprosma)
- *Coprosma rugosa* (needle-leaved mountain coprosma)
- *Corokia cotoneaster* (korokio)
- *Griselinia littoralis* (pāpāuma/broadleaf)
- *Olearia avicenniifolia* (mountain akeake)
- *Olearia lineata* (small-leaved tree daisy)
- *Olearia nummulariifolia* (tree daisy)
- *Olearia odorata* (scented tree daisy)
- *Phormium tenax* (harakeke/flax)
- *Veronica salicifolia* (koromiko/hebe)

**Site preparation and planting:**

Minimal site preparation will be required, with no need to spot spray prior to planting within the wetland area. It is recommended that the best plant positions are chosen on the day of planting. Plant guards and bamboo sticks are recommended, as is weed releasing at the time of planting for efficiency of maintenance.



*Figure 5 Plan view of proposed planting areas.*





*Figure 6 Photograph looking across the flat wetland area.*



*Figure 7 Photograph looking west up the bank towards the house.*





*Figure 8 Photograph looking north towards the proposed bank planting areas.*