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Waiora Manuherekia

Planting proposal for Pemberton

Please find below proposed planting details for the wetland at Chris Pemberton's wetland. These suggestions have considered the approximate budget for planting allocated for the different sites and recommendations provide the best outcomes for these budgets.

Pemberton

Planting in the area will follow the edge of the existing clover (Figure 17 and Figure 18). The area should be relatively efficient to plant. However, it will require a higher planting density than some sites due to the scale of planting needed and the lack of existing regeneration.

Suggested plants include carex, toetoe and flax on the edges and low points, and woody species, such as tree daisies, on higher areas. It is recommended that most of the site is planted with carex (30%) for the most cost-effective planting.

With all the planting combined (HRA and landowner planting) the entire fenced area will be able to be planted. It is recommended that carex is planted at 1m spacings and other planting is at 2 -2.5m spacings.

Budget: \$20,000 (plus \$5,000 of additional planting to be planted by the landowner)

Total plant numbers: approximately 1,800 plants (including supply-only plants).

Planting list:

- *Austroderia richardii* (toetoe)
- *Carex secta* (pukio/sedge)
- *Coprosma rugosa* (needle-leaved mountain coprosma)
- *Coprosma propinqua* (mingimingi)
- *Coprosma virescens* (mikumiki)
- *Cordyline australis* (tī kōuka/cabbage tree)

- *Corokia cotoneaster* (korokio)
- *Hoheria angustifolia* (narrow-leaf lacebark)
- *Kunzea ericoides* (kānuka)
- *Leptospermum scoparium* (mānuka)
- *Olearia lineata* (small-leaved tree daisy)
- *Phormium cookianum* (wharariki/mountain flax)
- *Phormium tenax* (harakeke/flax)
- *Pittosporum tenuifolium* (kohuhu)
- *Plagianthus regius* (ribbonwood)
- *Podocarpus totara* (tōtara)
- *Sophora microphylla* (kōwhai)
- *Veronica salicifolia* (koromiko/hebe)

Site preparation and planting:

There are some hawthorns within the planting site. These can be scrub-barred 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.

If willows are removed later, there are several options that could be utilised. An access track through the planting could be retained, the willows could be removed from the western side of the creek, or they could be ground treated. Ground treatment is the recommended option.

It is understood that aerial spraying of the willows may be undertaken. If this does occur, ideally this would be carried out before planting. If this is not feasible, a decent sized buffer would be required between the willows and planting.



Figure 17 Plan view of the planting area.



Figure 18 Photograph looking south-west across the planting site.