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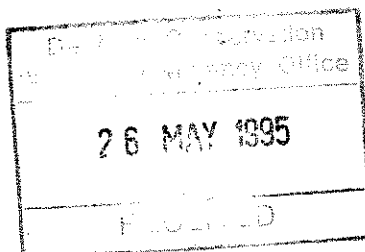
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CM&C CHRIS HARLEN 2/05/95

VEGETATIVE SURVEY OF ENDEMIC SPECIES

FOR PROPOSED BUILDING SITE

PREPARED FOR:

Mr D. Renwick
162 Kahu Road
Paremata



DESCRIPTION:

4950 SQUARE METERS
SITE: DP43013
LANGWELL PLACE
PAPAKOWHAI



CONSULTANT FOR LANDSCAPE MANAGEMENT AND PUBLIC RELATIONS

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PURPOSE OF THIS DOCUMENT:

This document has been produced to show the results of a vegetative survey of endemic plant species undertaken on May 2, 1995 to assist in the assessment of the botanical value of the site.

SITE DESCRIPTION:

The site is 4950 square meters of a clay bluff that contains a few large specimens of *Cupressus macrocarpa*, *Pinus radiata*, *Metrosideros excelsa*, *Pittosporum eugenioides*, *Melicytus ramiflorus*, *Olearia paniculata* and *Psuedopanax crassifolium*. there are also good quantities of wildlings established, with grasses, climbers, and ferns. The site also contains substantial growth of common exotic species such as, *Hedra* sp., *Euonymus* sp., *Clematis* sp., *Vinca* sp., *Cortaderia sellona*, *Cotoneaster* sp. and perennial garden species. There is no indication that this site is a remnant of endemic vegetation, it has had for many years pine and macrocarpa growing on it which is indicated by the stumpage and the branches of felled trees, areas of fern are developing on the steep sheltered banks where pine needles are minimal and native seedlings have managed to gain good growth. The number of seedlings becoming established does show a high level of humus has been developed over the years and is now proving to be a very fertile environment for the seed to germinate in.

ENDEMIC SPECIES:

<i>Asplenium oblongifolium</i>	<i>Brachyglottis repanda</i>
<i>Carex testacea</i>	<i>Cassinia leptophylla</i>
<i>Coprosma areolata</i>	<i>Coprosma crassifolia</i>
<i>Coprosma parviflora</i>	<i>Coprosma propinqua</i>
<i>Coprosma repens</i>	<i>Corynocarpus laevigatus</i>
<i>Dianella intermedia</i>	<i>Hoheria sexstylosa</i>
<i>Isolepis nodosa</i>	<i>Kunzea ericoides</i>
<i>Macropiper excelsum</i>	<i>Melicytus ramiflorus</i>
<i>Metrosideros excelsa</i>	<i>Myoporum laetum</i>
<i>Myrsine australis</i>	<i>Olearia paniculata</i>
<i>Parsonia heterophylla</i>	<i>Phormium tenax</i>
<i>Phymatosorus diversifolius</i>	<i>Pittosporum crassifolium</i>
<i>Pittosporum eugenioides</i>	<i>Pittosporum tenuifolium</i>
<i>Polystichum richardii</i>	<i>Psuedopanax crassifolius</i>
<i>Psuedopanax lessonii</i>	<i>Pyrrosia eleagnifolia</i>
<i>Solanum laciniatum</i>	<i>Sophora microphylla</i>

RECOMMENDATION:

While this site is developing well and if left undisturbed will prove to be a potentially interesting buffer there is concern on the level of exotic species gaining a stronger hold than the present native species, there would have to be a serious commitment to maintenance to ensure the future potential of this site. With the proposal of developing a rest home on this site it is recommended that the most practical course of action for this site is to manually uplift all of the native plants from the site, to containerise them and where appropriate replant them when the project is completed, with care all of the plants could be transplanted as they are all species that are shallow rooted and would transplant readily.

The process of uplifting the juvenile plants could be undertaken by a group such as the Conservation Core, Forest and Bird or a similar interested group, the plants that are not required for replanting should be used in a planting project that is within 5 kms from the site. The larger mature native species would need to be uplifted by people skilled in this operation to ensure that damage and transplanting shock is kept to a minimum. These plants must be recognised as a valuable resource, both in the present state and as a landscaping product, if the opportunity is taken to carefully remove these plants there will be a considerable cost saving in the landscaping and establishment for the project.