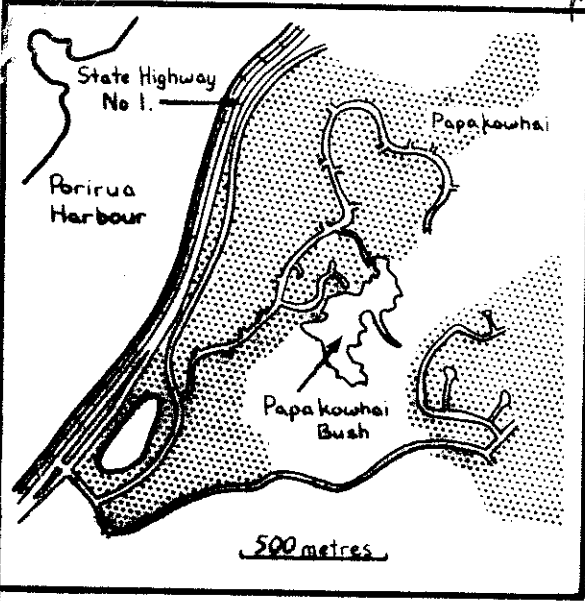
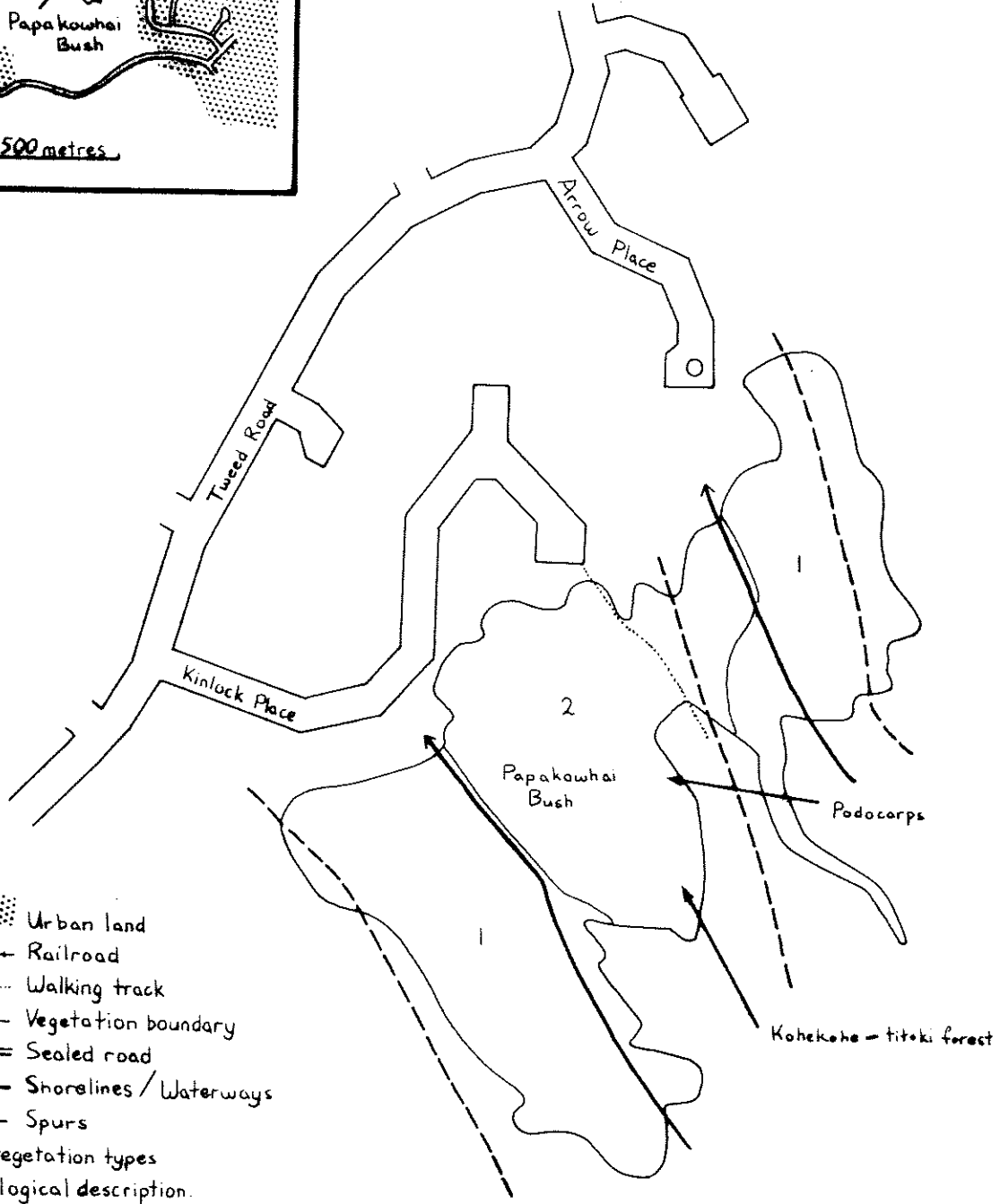



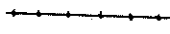
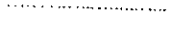


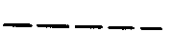

On bibliography ✓



250 metres



Key

-  Urban land
-  Railroad
-  Walking track
-  Vegetation boundary
-  Sealed road
-  Shorelines / Waterways
-  Spurs
- For key to vegetation types refer to biological description.

Map 3 Papakowhai Bush

PAPAKOWHAI BUSH		GRID REF N 160 : 422, 527 - 434, 532 AIR PHOTO 5497, E/5																															
LOCATION Within Papakowhai subdivision on slopes above State Highway No. 1, 3 km north of Porirua.		SIZE Approx. 10 hectares OWNERS Paremata Properties																															
AREA DESCRIPTION Papakowhai is a relatively young residential area which faces in a north-westerly direction over the south arm of Porirua Harbour. The area is still sparsely vegetated with most gardens being only recently established. Within this landscape of houses, Papakowhai Bush forms an island of native forest and scrub. The land on which the bush is situated is mostly too steep for housing and has remained untouched by developers. The bush is dissected by two small, steep sided gullies with low spurs between and on both sides. Houses have been built directly on the bush margins on the down-hill side. On the up-hill side an area of grass runs up to a steep bank, above which there are more houses on a terrace. The bush provides a pleasant back-drop to the houses below. It is visible from the main highway and breaks the continuity of the houses. Some houses at the lower margins have clearly been designed to fit into a bush setting reflecting the importance of the bush to the residents.																																	
ACCESS From S.H. 1, 3 km north of Porirua (south bound lane), take Papakowhai Road, Tweed Road and Kinloch Place.		STATUS/CURRENT PROTECTION 1 hectare in Porirua City Council Scenic Reserve. Remaining 9 hectares unprotected.																															
JUSTIFICATION FOR RESERVE STATUS		RATING 0-10																															
1. Contains representative coastal type forests of the region. Incl: mature manuka - kanuka forest, kohekohe - titoki forest, regenerating podocarp - mixed broadleaved forest. Represents a succession to original podocarp - broadleaved forest. Contains 3 species of regionally uncommon plants.		SCENIC 4...																															
2. Has high aesthetic, recreational and educational value and is especially valued by local residents.		SCIENTIFIC 2...																															
3. Is one of the very few areas of bush on east side of Porirua Harbour.		RECREATION 4...																															
BIOLOGICAL DESCRIPTION		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:45%;">COMMUNITY TYPES</th> <th style="width:10%;">RES %</th> <th style="width:10%;">RES WGTN</th> <th style="width:25%;">RARE/UNCOMMON PLANTS</th> <th style="width:10%;">NCC STATUS</th> <th style="width:10%;">RES WGTN</th> </tr> </thead> <tbody> <tr> <td>1. Young manuka - kanuka scrub and forest with some gorse.</td> <td>62.5</td> <td>yes</td> <td><i>Coprosma crassifolia</i></td> <td>-</td> <td>?</td> </tr> <tr> <td>2. Mature manuka - kanuka forest with small areas of kohekohe - titoki forest, mixed podocarp - broadleaved forest, coastal broadleaved forest in gully.</td> <td>37.5</td> <td>no</td> <td><i>Lophomyrtus obcordata</i> <i>Uncinia leptostachya</i></td> <td>-</td> <td>?</td> </tr> <tr> <td colspan="6">The understorey ranges in condition from very sparse and in poor condition to reasonably dense with good regeneration.</td> </tr> <tr> <td colspan="6" style="text-align: center;"> RARE/UNCOMMON ANIMALS None known from this area. </td> </tr> </tbody> </table>		COMMUNITY TYPES	RES %	RES WGTN	RARE/UNCOMMON PLANTS	NCC STATUS	RES WGTN	1. Young manuka - kanuka scrub and forest with some gorse.	62.5	yes	<i>Coprosma crassifolia</i>	-	?	2. Mature manuka - kanuka forest with small areas of kohekohe - titoki forest, mixed podocarp - broadleaved forest, coastal broadleaved forest in gully.	37.5	no	<i>Lophomyrtus obcordata</i> <i>Uncinia leptostachya</i>	-	?	The understorey ranges in condition from very sparse and in poor condition to reasonably dense with good regeneration.						RARE/UNCOMMON ANIMALS None known from this area.					
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MODIFICATIONS AND TRENDS In past years fires have damaged the bush leaving a mixture of ages and a somewhat disorganised vegetation pattern. Slowly the scrub is being replaced by forests of coastal lowland type. Subdivision has exposed the margins on the down-hill side leaving them without the protection of a marginal buffer zone of vegetation, and damage to the understorey by salt burning, wind and dessication has resulted. Tracks run throughout the bush but only in a few places has severe damage resulted from over-use.																																	
THREATS		IMPROVEMENTS NEEDED																															
1. Further subdivision may involve clearance of parts of the bush. 2. Over-use may damage the understorey and interfere with the regeneration process. Child vandalism likely. 3. Fire is possible in dry periods.		1. Fencing of perimeter. 2. Encouragement of regrowth on down-hill margins. 3. Monitoring of activities within to prevent over-use. Honorary rangership could be given to a local resident for this purpose.																															
COMMENTS, RECOMMENDATIONS Small pockets of bush like this piece have a different type of value to other areas in the survey. Their value is far more localised and mostly within the surrounding neighbourhood. Collectively, many such areas are of high value to the region. To the residents of Papakowhai this piece of bush has high aesthetic value, adding character to the neighbourhood. It also provides an educational facility for the nearby primary school and a recreational area for all residents. This is cited as evidence of residents high regard for Papakowhai Bush. Few pieces of native bush remain on the eastern side of Porirua Harbour. None remain which have the same vegetation composition as this piece. It should therefore be reserved and administered by the Porirua City Council and managed to enhance regeneration. If properly managed, over-use need not be a problem.																																	
BIBLIOGRAPHY		BY DJC, DC, MCW																															
1. Wellington Regional Council Files 1976 : Submission by Papakowhai Residents Association to the Town Planning, Building and By-Laws Committee of Porirua City Council - includes a botanical report by C.C. Ogle.		MONTH December 1983.																															

COMMON VASCULAR PLANTS OF PAPAOWHAI BUSH

LIST COMPILED FROM RECORDS OF C.C. OGLE 1976, WELLINGTON BOTANICAL SOCIETY
1973, AND M. WASSILIEFF 1983

Trees and plants

Alcetryon excelsus
Beilschmiedia tawa
Cassinia leptophylla
Coprosma areolata
C. crassifolia
C. propinqua
C. rhamnoides
C. robusta
C. propinqua X *C. robusta*
Cordyline australis
Corynocarpus laevigatus
Dacrycarpus dacrydioides
Dacrydium cupressinum
Dysoxylum spectabile

Elaeocarpus dentatus
* *Erica lusitanica*
Fuchsia excorticata
Geniostoma rupestris var.
Hedycarya arborea
Helichrysum aggregatum
Knightia excelsa
Leptospermum ericoides
L. scoparium
Leucopogon fasciculatus
Lophomyrtus bullata
L. obcordata
L. bullata X *L. obcordata*

Macropiper excelsum
Melicope ternata
Meliclytus ramiflorus
Myoporum laetum
Myrsine australis
Olearia solandri
Pennantia corymbosa
Podocarpus totara
Prumnopitys ferruginea
(= *Podocarpus ferrugineus*)
P. taxifolia (*Podocarpus spica*)
Pseudopanax crassifolius
* *Sambucus nigra*
Solanum aviculare

Climbing Plants

Calystegia tuguriorum
Metrosideros diffusa
M. perforata
Wahlenbeckia australis

M. complexa
M. australis X *M. complexa*
Parsonia heterophylla
Passiflora tetrandra

Ripogonum scandens
* *Rosa rubiginosa*
* *Rubus fruticosus*
Tetragonia trigyna

Grasses, rushes and like plants

* *Anthoxanthum odoratum*
Carex dissita
C. flagellifera
C. geminata
C. virgata
Cortaderia toetoe
Cyperus ustulatus

* *Dactylis glomerata*
* *Holcus lanatus*
Juncus pallidus
Juncus sarophorus
* *Lolium perenne*
Microlaena stipoides

Schoenus maschalinus
Scirpus prolifer
* *Sporobolus africanus*
Uncinia banksii?
U. leptostachya
U. uncinata

Herbs

Acaena anserinifolia
* *Anagallis arvensis*
Arthropodium candidum
Cardamine sp
Centella uniflora
* *Conium maculatum*
* *Conyza* sp
* *Crepis capillaris*
Dichondra repens
Epilobium sp (nerteroides?)
Erichtites quadridentata
E. scaberula

* *Euphorbia peplus*
* *Galium aparine*
G. propinquum
Gnaphalium sp
Hydrocotyle americana
H. moschata
* *Hypochaeris radicata*
* *Marrubium vulgare*
Microtis unifolia
* *Oxalis* sp
* *Parentucellia viscosa*
Parietaria debilis

* *P. diffusa*
* *Phytolacca octandra*
Ranunculus hirtus
* *Rumex acetosella*
* *Sisyrinchium iridifolium*
* *Solanum nigrum*
Stellaria parviflora
Tillaea sieberiana
* *Torilis nodosa*
* *Vicia sativa*
Wahlenbergia marginata

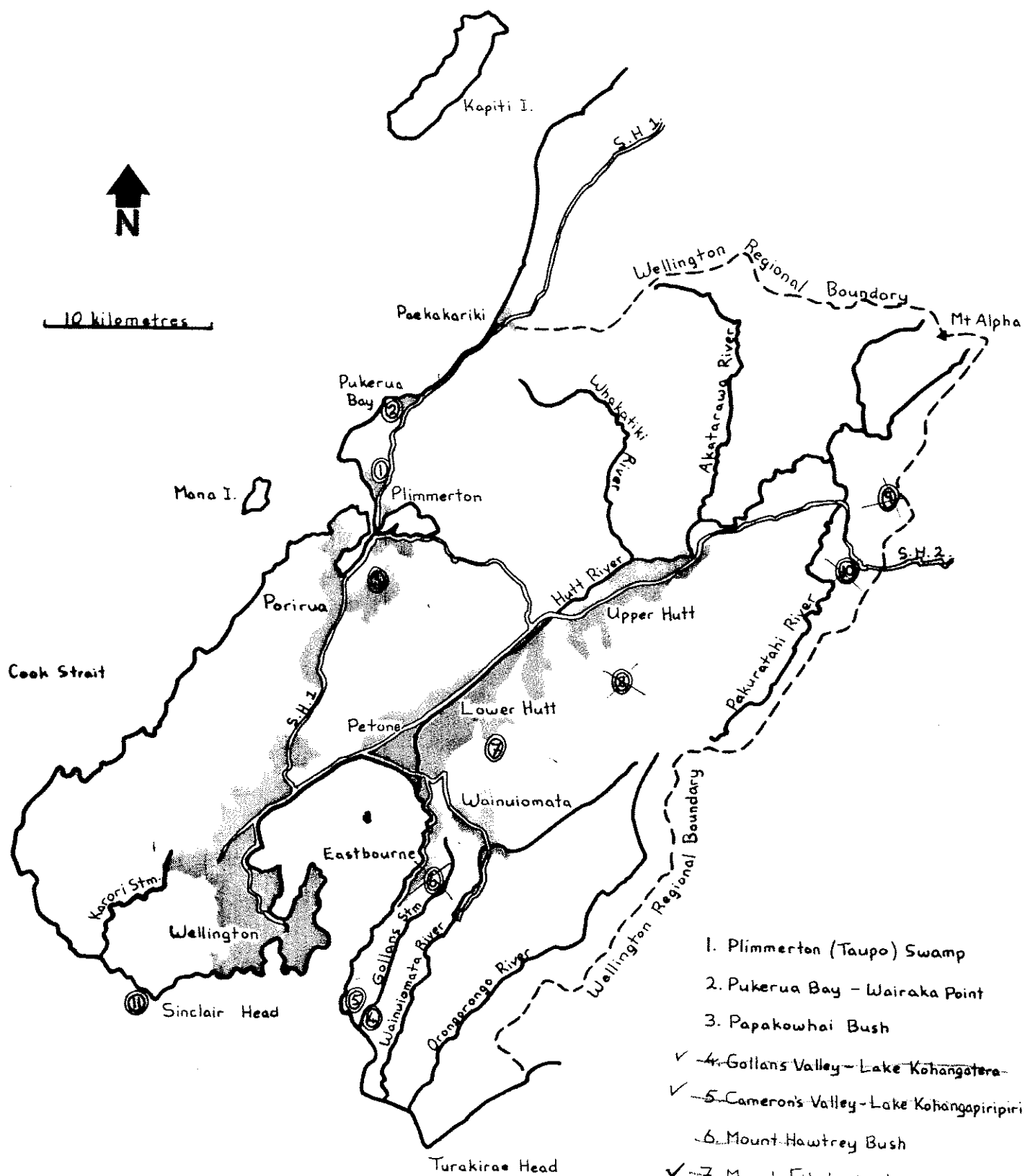
Ferns

Adiantum cunninghamii
Asplenium bulbiferum
A. flabellifolium
A. flaccidum ssp *flaccidum*
A. hookerianum
A. oblongifolium
A. polyodon
Blechnum chambersii
B. filiforme
B. minus

Cyathea dealbata (= *Alsophila*
tricolor)
C. medullaris (= *Sphaeropteris*
medullaris)
Histiopteris incisa
Hypolepis tenuifolia
Lastreopsis glabella
L. velutina
Paesia scaberula

Pellaea rotundifolia
Phymatosorus diversifolius
P. scandens
Pneumatopteris pennigera
Polystichum richardii
Pteridium esculentum
Pteris pendula (= *P. macilentata*)
P. tremula
Pyrtrosia serpens

* ADVENTIVES



Locality Map

- Wellington Region showing location of surveyed sites.

1. Plimmerton (Taupo) Swamp
2. Pukerua Bay - Wairaka Point
3. Papakowhai Bush
- ✓ 4. Gollans Valley - Lake Kohangotere
- ✓ 5. Cameron's Valley - Lake Kohangapiripiri
6. Mount Hawtrey Bush
- ✓ 7. Mount Fitzherbert
8. Blue Mountains Bush
9. The Puffer
10. Rimutaka Bush A, B
11. Red Rocks to Karori Stream