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The vegetation
M.Sc. thesis

N.U.W.

Lowry Bay
277p. 5.

On bibliography
TARARUA

CHAPTER II

LOCATION AND GENERAL DESCRIPTION OF THE AREA

ORCHIDS
ON DBASE

The catchment centre lies at approximately 174 degrees 55 minutes East, and 41 degrees 15 minutes South. On sheet N 164/3, Petone, of the N.Z. 1:25000 series, the catchment lies entirely within the 1000 yard square bounded by the four corners 270460, 170470, 260460, 260470. In terms of local administration the catchment is in Lot 4, D.P. 12030, being parts of sections 20 and 21 of the Harbour District, Block XVI, Belmont Survey District.

The catchment falls entirely within the Lowry Bay Scenic Reserve of 163 acres, and amounts to approximately one half of it, as shown on Fig. 1. The whole reserve is subject to two pipe line easements, one of which lies in the present catchment, below the reservoir. The general setting can be seen in Fig. 1. The catchment is flanked on the east by the Main Ridge running down the east side of the Hutt Valley, and on the north by a branch ridge, the Point Howard Ridge, plunging down into Port Nicholson. The south and west margins are formed by spurs from these two ridges. The boundary of the area studied coincides with the tops of ridges and spurs which delimit the catchment, except along the northern margin, where the boundary is the track from Point Howard to the Wainui saddle. This track is inside the catchment, and a short distance from the ridge crest. The area studied amounts to 87 of the 88 acres

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APPENDIX: HIGHER PLANTS (FERNS, FERN ALLIES, CONIFERS AND
FLOWERING PLANTS) NATIVE TO THE CATCHMENT

The species are listed alphabetically. The contribution each makes to the vegetation is indicated thus:

- M major canopy component of one or several communities.
R regularly present in several communities.
L local, but not uncommon.
F few.
F* one plant seen.

Acaena anserinifolia	F	bidibidi
✓ — Acianthus fornicatus	L	orchid
— Adiantum cunninghamii	F	maidenhair fern
Agropyron scabrum	F	grass
Alectryon excelsus	L	titoki
Aristotelia serrata	L	wineberry
— Asplenium bulbiferum	R	hen and chickens fern
A. falcatum	L	fern
A. flabellifolium	F*	fern
— A. flaccidum	R	fern
— A. lucidum	R	fern
Astelia solandri (Ch. A. cunninghamii)	R	
— Beilschmiedia tawa	R	tawa
Blechnum capense	L	fern
B. discolor	L	fern
— B. filiforme	R	fern
B. fluviatile	F	fern
B. lanceolatum	R	fern
B. membranaceum	F*	fern
B. minus	L	fern
B. vulcanicum	F*	fern
Brachyglottis repanda	M	rangiora
✓ — Bulbophyllum pygmaeum	F	orchid
✓ — Caladenia carnea var. minor (two forms)	L	orchid
Cardamine "glossy leaf"	L	cress
C. "long style"	L	cress
Carex dissita	F	sedge
C. forsteri	F	sedge
C. lambertiana	F	sedge
α C. solandri	F	sedge
C. virgata	F	sedge
Carmichaelia flagelliformis	F*	native broom
Carpodetus serratus	L	putaputaweta
Cassinia leptophylla	L	tauhinu

✓	<i>Chiloglottis cornuta</i>	F	orchid
	<i>Clematis hookeriana</i> (?)	L	clematis
	<i>C. paniculata</i>	R	clematis
	<i>Collospermum hastatum</i> (Ch. <i>Astelia solandri</i>)	L	
	<i>Coprosma areolata</i>	F	
*	<i>C. australis</i>	M	raurekau
	<i>C. foetidissima</i>	F	
*	<i>C. lucida</i>	M	shining karamu
	<i>C. microcarpa</i>	L	
	<i>C. parviflora</i>	F	
	<i>C. rhamnoides</i>	R	
*	<i>C. robusta</i>	M	karamu
	<i>Cordyline australis</i>	L	cabbage tree
	<i>C. banksii</i>	F	cabbage tree (small)
	<i>Coriaria arborea</i>	L	tutu
	<i>Cortaderia fulvida</i>	F	toitoi
*	<i>Corynocarpus laevigatus</i>	M	karaka
	<i>Corybas aconitiflorus</i>	F	orchid
✓	<i>C. macranthus</i> var. <i>macranthus</i>	F	orchid
✓	<i>C. oblongus</i>	F	orchid
✓	<i>C. trilobus</i>	L	orchid
*	<i>Cyathea dealbata</i>	M	silver treefern, ponga
	<i>C. medullaris</i>	M	mamaku
	<i>Cyathodes fasciculata</i>	R	mingimingi
	<i>C. juniperina</i>	R	prickly mingimingi
	<i>Dacrydium cupressinum</i>	L	rimu
	<i>Dendrobium cunninghamii</i>	L	bamboo orchid
	<i>Deyeuxia crinita</i> (Ch. <i>Dichelachne crinita</i>)	F	grass
	<i>Deyeuxia pilosa</i> (Ch. <i>D. forsteri</i> var. <i>pilosa</i>)	F	grass
	<i>Dianella intermedia</i>	L	blueberry
	<i>Dicksonia squarrosa</i>	F	wheki
(A)	<i>Dodonaea viscosa</i> (introduced?)	F	akeake
	<i>Dracophyllum filifolium</i>	F	grass-tree
	<i>Drosera auriculata</i>	F	sundew
	<i>Dysoxylum spectabile</i>	R	kohekohe
✓	<i>Earina autumnalis</i>	L	orchid
✓	<i>E. mucronata</i>	L	orchid
(B)	<i>Elaeocarpus dentatus</i>	R	hinau
	<i>Epilobium alsinoides</i>	F	willow herb
	<i>E. erectum</i>	F	willow herb
	<i>E. nummularifolium</i>	F	willow herb
	<i>E. pubens</i>	F	willow herb
	<i>E. rotundifolium</i>	F	willow herb

Erechtites arguta	F	fireweed
E. minima	F	fireweed
E. scaberula	F	fireweed
Eugenia maire	L	swamp maire
Freycinetia banksii	M	kiekie
Fuchsia excorticata	R	fuchsia
Gahnia pauciflora	R	sedge
G. setifolia	R	sedge
Gaultheria antipoda	L	
Geniostoma ligustrifolium	M	hangehange
Geranium microphyllum	F	geranium
Gnaphalium collinum (white)	F	cudweed
G. collinum (green)	F	cudweed
G. involucreatum	F	cudweed
G. luteo-album	F	cudweed
Grammitis billardieri	R	fern
G. ciliata	F	fern
G. heterophylla	L	fern
Griselinia lucida	F	broadleaf
Gymnelaea lanceolata	R	white maire
Haloragis erecta	L	
H. procumbens	L	
Hebe stricta var. atkinsonii	R	koromiko
Hedycarya arborea	M	pigeonwood
Helichrysum filicaule	L	daisy
Histiopteris incisa	L	water fern
Hydrocotyle moschata	F	filmy fern
Hymenophyllum bivalve	F	" "
H. demissum	R	" "
H. dilatatum	L	" "
H. flabellatum	L	" "
H. flexuosum	F	" "
H. multifidum	R	" "
H. rarum	F	" "
H. sanguinolentum	L	" "
H. scabrum	F	" "
Hypolepis rugosula	F	fern
Juncus plantifolius	F	rush
J. sp	F	rush
Knightia excelsa	M	rewarewa
Lastreopsis glabella	F	fern
L. hispida	R	fern

Laastreopsis microsora	F	fern
* Laurelia novae-zelandiae	M	pukatea
Lepidosperma australe (Ch. Cladium vauthiera)	L	sedge
* Leptospermum ericoides	H	kanuka
L. scoparium	M	manuka
Libertia ixioides	L	native iris
Lindsaea linearis	I	fern
L. lessonii (Allan: L. trichomanoides var. lessonii)	L	fern
L. trichomanoides	R	fern
Lobelia anceps	F	lobelia
Lophomyrtus bullata	L	ramarama
Luzula campestris var. banksiana	F	woodrush
L. campestris var. picta	R	woodrush
L. subclavata	I	woodrush
Lycopodium billardieri	F	(fern ally)
L. volubile	L	(fern ally)
Macropiper excelsum	H	kawakawa
Meliccytus ramiflorus	H	mahoe
Metrosideros colensoi	F	white rata
M. diffusa	R	white rata
M. fulgens	R	climbing rata
M. perforata	R	white rata
M. robusta	H	northern rata
Microlaena avenacea <i>ignora</i>	L	bush ricegrass
Microtis unifolia	L	orchid
Muehlenbeckia australis	I	pohuehue
Myoporum laetum	H	ngaio
Myrsine australis	I	red matipo
M. salicina	R	toro
Neopanax arboreum	M	fivefinger
Nothofagus solandri	H	black beech
N. truncata	M	hard beech
Notodanthonia gracilis	L	grass
N. penicillata	F	grass
N. racemosa	F	grass
Olearia paniculata	F	golden akeake
O. rani	H	heketara
Paesia scaberula	L	hardfern
Paratrophis microphylla	F	milk tree
Parsonsia heterophylla	R	
Pelargonium inodorum	F	
Pennantia corymbosa	L	kaikomako

Phormium colensoi	R	mountain flax
Phymatodes diversifolium	R	fern
P. scandens	L	fern
Pittosporum eugenoides	R	lemonwood
P. tenuifolium	L	black matipo
Poa anceps	F	grass
Podocarpus dacrydioides	L	kahikatea
P. ferrugineus	L	miro
P. spicatus	F	matai
P. totara	F	totara
Polystichum richardii	R	prickly fern
Pseudopanax crassifolium	L	lancewood
Pseudowintera axillaris	F	horopito
Pteridium aquilinum var. esculentum	L	bracken
✓ Pterostylis banksii var. banksii	R	greenhood orchid
- P. graminea	L	greenhood orchid
✓ P. montana var. montana	F	greenhood orchid
✓ P. trullifolia var. alobula	R	greenhood orchid
Pyrrosia serpens	R	fern
Ranunculus hirtus	L	buttercup
Raoulia tenuicaulis	F	scabweed
Rhopalostylis sapida	L	nikau
Ripogonum scandens	L	supplejack
Rubus australis	F	bush lawyer
R. cissoides	R	bush lawyer
Rumohra adiantiformis	F	fern
- Sarcochilus adversus	L	orchid
Schefflera digitata	R	pate
Scirpus reticularis (Ch. S. inundatus var. gracillima)	F	sedge
<u>Brachyglottis</u> Senecio kirkii	F	daisy
Solanum laciniatum	F	poroporo
S. nodiflorum	F	inkweed
Stellaria parviflora	R	chickweed
Tetrapathaea tetrandra	F	passionfruit
✓ Thelymitra decora	L	orchid
✓ T. longifolia var. forsteri	R	orchid
✓ T. pauciflora	L	orchid
- T. sp.	L	orchid
Thelypteris pennigera	R	fern
Tmesipteris tannensis	L	(fern ally),
Todea hymenophylloides	L	fern
Trichomanes reniforme	R	kidney fern
T. venosum	L	filmy fern

<i>Uncinia angustifolia</i>	R	hook grass
U. banksii	F	hook grass
U. uncinata	R	hook grass
<i>Wahlenbergia colensoi</i>	L	harebell
W. gracilis (tall blue)	L	harebell
<i>Weinmannia racemosa</i>	H	kamahi

The composition of the native flora is:

	TOTAL NO.	% OF FLORA
CONIFERS	5	2½
FERNS	45	23
FERN ALLIES	3	1½
GRASSES	9	4
HERBS (n.e.i.)	39	19
ORCHIDS	21	10
SEDGES	12	5
SHRUBS	30	14
TREES	31	15
VINES	12	6
	<u>211</u>	